



Documentation Menu



Release notes

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May 4, 2026

INTEGRATIONS

- The AWS integration now reports FSx assets.
- The CrowdStrike connector now supports more retries when hitting transient 401 responses.

USER EXPERIENCE

- The Asset Inventory CSV report now includes the VLAN column.
- Users with Annotator role access may now add asset comments in addition to tags.
- The Network Maps now treat `eol:true` as meaning the later of the OS EOL or EOL Extended dates.

SCANNER

- The scanner no longer reports Siemens S7Comm virtual modules ("Firmware") as sub-assets.
- The scanner now randomizes TCP ports to reduce pressure on transparent proxies.
- The scanner now uses less system resources and handles screenshots more reliably.
- The scanner now reports screenshots for non-NLA RDP (Windows) and no-auth VNC.
- The scanner now spends less time on network "tar pits" (hundreds of bogus services).
- The scanner now reports application-layer data for SSL 2.0 wrapped services.
- The scanner now handshakes PQC hybrid ciphers for SSH services.

BUG FIXES

- An issue that could result in single-source AWS ELBs maintaining old IP addresses has been resolved.
- An issue that result in ARP results reported mangled IPs has been resolved.
- An issue that could lead to duplicate GeoIP asset attribute values has been resolved.

- An issue that could lead to stale Chrome processes during scans has been resolved.
- An issue that could result in invalid SNMP versions being reported has been resolved.
- An issue that could cause Certificates to not correctly sort by Subject or Subject Key ID has been resolved.

CONTENT UPDATES

- Fingerprint improvements.

4.9.260430.1

Apr 30, 2026

- An issue that could cause dashboard widgets to render with an incorrect chart height has been resolved.
- An issue that could result in Custom Integration Scripts throwing an error when comparing `IPAddress` values has been resolved.
- An issue that could cause the Custom Integration Scripts code editor to render incorrectly in dark mode has been resolved.
- An issue that could cause inventory tables to sort by unavailable columns has been resolved.
- The scanner worker group size is now decoupled from the configured scan rate to improve resource usage.
- The scanner now completes web screenshots faster on machines with generous memory but low CPU core counts.
- The scanner now uses less resources during the HTTP and vulnerability scan phases.
- Fingerprint improvements.

4.9.260430.0

Apr 30, 2026

- The runZero 4.9 release is live! This version is focused on OT, attack graphs, and segmentation analysis.
- The Network Maps (2D/3D) now render unmapped MACs and unscanned traceroute hops by default.
- An issue that could lead to SNMP v3 reporting a username when none was specified has been resolved.
- The scanner now uses significantly less resources while also reducing scan times.
- Tags can now be used to manually specify geo locations: (ex: geo.City=Austin/TX/USA).
- Assets with geolocation data now link to the World map from the inventory icon fields.

- Fingerprint improvements.

4.8.260429.0

Apr 29, 2026

- An additional issue with SCTP exceeding task rate limits has been resolved. The SCTP protocol is now disabled by default as a precaution and can be re-enabled via the scan configuration probes page (mark `sctp-tenable` as `true` to re-enable).
- The `mtconnect` protocol is now used to collect default device information when available.
- The Ethernet/IP CIP protocol stack now identifies a wider range of modules, including CNCs.

4.0.260428.2

Apr 28, 2026

- An issue with SNMP sysObjectID normalization that could prevent asset matching has been resolved.
- An issue that could result in larger-than-necessary scan files has been resolved.
- The scanner now deduplicates the output of DCERPC and EPM protocol enumeration.
- The `S7` source has been folded into the existing `S7Comm` definition.

4.0.260428.1

Apr 28, 2026

- Fingerprint improvements.

4.0.260428.0

Apr 28, 2026

BUG FIXES

- Two issues were resolved with the new SCTP protocol implementation, both of which could lead to network disruption.
- The first issue impacted environments where the configured scan rate was close to the network limit. The root cause was a misconfiguration of the rate limiter that treated SCTP separately from the rest of the scan traffic, which could lead to scans running at 1.5x to 2.0x of the configured rate. The fix was a correction to use the shared rate limiter as intended.
- The second issue impacted stateful middle-boxes with low session limits and long timeouts for SCTP flows. The SCTP INIT scan did not proactively reset sessions; this could lead to quickly growing session

counts and disruption of other flows once the device limit was reached. The fix was to implement proactively tear-down of SCTP sessions, similar to how runZero handles TCP SYN scans.

- An issue that could result in asset inventory links returning a not-found error when in My Organizations mode has been resolved.
- An issue that could lead to slow exports of the software and vulnerabilities table has been resolved.
- An issue that could result in DCERPM EPM results not being captured completely has been resolved.

GENERAL UPDATES

- LDAP-sourced Active Directory records and CrowdStrike endpoint records now use the `objectGUID` and `objectSid` attributes for matching and merging.

CONTENT UPDATES

- Fingerprint improvements.

4.0.260426.0

Apr 26, 2026

- The Organizational Overview Report, Network Map, and World Map have been updated.
- Fingerprint improvements.
- 4.0.260426.0

4.0.260423.0

Apr 23, 2026

- The platform now includes a native integration for Rapid7's InsightVM Cloud.
- The assets and services inventory search now support comma-delimited values for the `protocols` keyword.
- Fingerprint improvements.

4.0.260421.0

Apr 21, 2026

- Two additional issues that could cause Explorer processes to abort on Windows have been resolved.
- The specific fields that contribute to an outlier score are now tracked in asset attributes.
- Fingerprint improvements.

4.0.260420.1

Apr 20, 2026

- An issue that could prevent TCP diagnostics from being reported in the task data has been resolved.

4.0.26020.0

Apr 17, 2026

- Two issues that could cause Explorer processes to abort on Windows have been resolved.
- An issue that could prevent email delivery due to provider rate limits has been addressed.
- An issue that could prevent Unmerge actions from being completed has been resolved.
- New maps are in preview; find them under the Manage menu of the asset details page.
- Fingerprint improvements.

4.0.260417.0

Apr 17, 2026

- An issue that could cause Windows Explorers to crash mid-scan has been addressed and all binaries are now built with the Go 1.26.2 toolchain. The root cause was a race condition leading to stack corruption in the TCP connection tracking logic.
- An issue that could cause some saved software queries to error when run as part of a metrics task has been resolved.
- An issue that could prevent integration searches from working with capital letters has been resolved.
- An issue that could result in self-hosted upgrades showing a migration error has been resolved.
- Fingerprint improvements.

4.0.260416.0

Apr 16, 2026

 FEATURES

- The runZero console now offers the ability to switch between three themes: Classic, light, and dark mode.

 SECURITY

- An issue that could allow a dashboard configuration to be viewed from outside of the authorized organization scope has been resolved.

 BUG FIXES

- An issue that could cause the Windows Explorer service to crash mid-scan has been mitigated by a switch back to the Go 1.25 runtime for production builds while we continue to investigate.
- An issue that prevented the Shodan integration from running all queries has been resolved.
- A performance issue with the Software inventory has been resolved.

CONTENT UPDATES

- OS reporting now takes into account the "os-release" OID for Linux systems running net-snmp.
- Fingerprint improvements.

4.0.260414.0

Apr 14, 2026

- The Wiz integration now supports filtering assets by cloud provider.
- The scan template form now represents the "Additional security tests" options the same way as the standard form.
- Scan configured from a template now use the template settings for "Additional security tests".
- An issue that caused API-created scan tasks to store an incorrect start time due to timezone conversion has been resolved.
- Additional issues that could lead to the Explorer service crashing during scans has been resolved.
- An issue that caused the vulnerability inventory by asset index to show vulnerabilities that has been suppressed by group has been resolved.
- Fingerprint improvements.

4.0.260410.0

Apr 10, 2026

- The display order of asset host names can now be configured at the account and organization level.
- Operating System End of Life (EOL) dates for Microsoft Windows Desktops now default to the Enterprise edition values unless a more specific edition is reported.
- Operating System End of Life (EOL) information for Microsoft Windows Server has been improved.
- Fingerprint improvements.

4.0.260407.0

Apr 7, 2026

- Improved handling of ARP data for asset correlation, using only the latest available data when appropriate.
- The software inventory now provides an organization name for each software group.
- An issue that could result in incorrect SharePoint version collection has been resolved.
- An issue that showed the incorrect icon color for Explorers without screenshot capabilities has been resolved.
- An issue that caused some NetBox assets to merge incorrectly has been resolved.
- Fingerprint improvements.

4.0.260402.0

Apr 2, 2026

- The InsightVM integration now provides more detail in authentication errors.
- The performance of and reliability of Explorers has been improved.
- An issue that caused suppressed vulnerabilities to incorrectly reappear with updated scan results has been resolved.
- Fingerprint improvements.

4.0.260401.2

Apr 1, 2026

- An issue that could prevent self-hosted installations from upgrading correctly has been resolved.

4.0.260401.0

Apr 1, 2026

- An issue that prevented overlapping site subnets from being configured has been resolved.
- An issue that prevented sub-asset enumeration for IPv6 OT services has been resolved.
- An issue that could result in scan tasks crashing during technology detection has been resolved.
- An issue that led to the CrowdStrike integration using the wrong retry timer has been resolved.
- An issue that could cause the asset grid to disappear when selecting an asset with a deleted custom integrations has been resolved.
- An issue that resulted in the Subnet report double-counting some addresses has been resolved.
- An issue that prevented `Select All` from working on the Software By Asset view has been resolved.
- An issue that led to the date picker overflowing the container has been resolved.

- Assets identified through BACnet, CIP, MODBUS and KNXnet gateways are now temporarily excluded from license counts while we improve the configurability of this feature.

4.0.260331.0

Mar 31, 2026

- An issue that prevented the software tab on the asset details screen from loading has been resolved.
- An issue that prevented the services inventory from loading has been resolved.
- An issue that prevented software queries from calculating results has been resolved.
- An issue that prevented service queries from calculating results has been resolved.
- Fingerprint improvements.

4.0.260330.1

Mar 30, 2026

- Fingerprint improvements.

4.0.260330.0

Mar 30, 2026

- Assets are now identified through network-reachable BACnet, CIP, MODBUS and KNXnet gateway devices.
- Assets are now automatically placed into a Category (IT, OT, IoT) and OT assets are assigned Functions.
- An issue that caused Explorers deployed on Windows hosts to log "Failed to write to log" error messages has been resolved.
- An issue that could cause Explorers running on Windows to crash under certain scenarios has been resolved.
- Fingerprint improvements.

4.0.260329.0

Mar 29, 2026

- An issue that resulted in zero-byte downloads for Windows executables has been resolved.

4.0.260327.1

Mar 27, 2026

- Fingerprint improvements.

4.0.260327.0

Mar 27, 2026

- The merge logic has been updated to avoid incorrectly merging assets with conflicting Intune hardware data.
- An issue that caused failed recurring tasks to create events with incorrect metadata has been resolved.
- An issue that could cause the console to run out of memory when serving Explorer or scanner binaries and large content updates has been resolved.

4.0.260326.0

Mar 26, 2026

- runZero now offers an optional API key IP address allowlist which can be configured in the Account Settings section of your console.
- The InsightVM integration now supports the ability to import asset tags.
- The Tanium integration now filters additional invalid attribute values.
- The Active Directory integration now includes Referrals in LDAP search error messages, if available.
- The performance of loading the Tasks page has been improved.
- An issue where cross-site aggregate query metrics could fail to be populated has been resolved.
- An issue that prevented users from creating new dashboards has been resolved.
- Fingerprint improvements.

4.0.260323.0

Mar 23, 2026

- The runZero Risk Management dashboard is now the default view when no other dashboard has been selected.
- The LDAP integration now includes extension attributes in its available data.
- An issue that prevented images from displaying in specific sections of the console has been resolved.
- An issue that prevented the BACnet probe from pulling data from the BACnet Broadcast Management Device (BBMD) and the Foreign Device Table (FDT) has been resolved.
- An issue that caused the user avatars in the team tables to render incorrectly has been resolved.

- An issue where suppressed vulnerabilities would not be returned when queried in metrics calculations has been addressed.
- Fingerprint improvements.

4.0.260318.0

Mar 18, 2026

- The asset view now offers `Unmerge` and `Export as task data` actions under the `Manage` menu.
- The scanner now supports the Atlas Copco Open Protocol for device discovery.
- The scanner now provides additional detail for the IPMI protocol.
- The scanner now skips screenshots for TLS versions unsupported by Chrome.
- The scanner now enumerates the backplane of Ethernet/IP CIP services automatically, reporting any visible assets.
- Operating System End of Life (EOL) data for Microsoft Windows and HP/HPE iLO has been updated.
- The web console [minimum supported browser version] (<https://help.runzero.com/docs/troubleshooting-supported-browsers/>) has been updated to Chrome 123 (March 2024).
- An issue that could prevent tasks from being rescheduled when console disk space is low has been resolved.
- Fingerprint improvements.

4.0.260312.0

Mar 12, 2026

- An issue that caused the AWS integration to trim the role prefix from the ARN has been resolved.
- An issue that caused the self-hosted console return an error when the `AWS_CA_BUNDLE` environment variable is set has been resolved.
- An issue that caused the self-hosted console to remove the systemd service during manual restarts has been resolved.
- An issue that caused the self-hosted console to print an error on startup has been resolved.
- An issue that could prevent in empty notification templates being sent has been resolved.
- An issue causing excessive software record refreshes during task processing has been resolved.
- Fingerprint improvements.

4.0.260311.0

Mar 11, 2026

- The scanner now covers additional default ports for the BACnet protocol.
- The `Known Exploited Vulnerability` finding has been retired in favor of direct vulnerability inventory queries (`kev:true`).
- The self-hosted console will suggest email as an alternative if the fingerprint exceeds the maximum size.
- The SentinelOne integration now supports a longer timeout for API calls (5 minutes).
- The Tanium integration asset matching behavior is now more accurate
- The LDAP integration's import of directory groups is now much faster.
- Fingerprint improvements.

4.0.260307.1

Mar 7, 2026

- Integration tasks with significant software records now process faster after an initial sync.
- Fingerprint improvements.

4.0.260307.0

Mar 7, 2026

- The performance of `software:` searches from the asset inventory has been improved.
- A bug that could result in valid SSH endpoints being removed during ghost asset filtering has been resolved.
- A bug that prevented the NetBox integration from connecting to some 4.2.x versions has been resolved.
- A bug that allowed excessive `domain:` keywords to be supplied during scan configuration has been resolved.
- A bug that prevented the Shodan integration from resolving scan targets when configured as part of a scan task has been resolved.
- A bug that could result in an Explorer registering as a new instance during an upgrade has been resolved.
- A bug that could lead to inconsistent fingerprinting via BACnet has been resolved.
- Fingerprinting has been improved for assets imported from Dragos.

4.0.260304.1

Mar 4, 2026

- Performance improvements.
- Merge logic improvements.
- Phantom device detection has been improved.
- Shodan integration tasks that do not find any results are now logged, but do not fail.
- Accessibility of navigation items within dropdown menus has been improved.

CONTENT UPDATES

- Fingerprint improvements.

BUG FIXES

- An issue preventing some inventory searches linked to outliers from returning the expected results has been resolved.

4.0.260302.0

Mar 2, 2026

- A bug that could result in CrowdStrike fingerprinting not being applied to assets has been resolved.
- Fingerprint improvements.

4.0.260301.0

Mar 1, 2026

- An issue that could cause Explorer processes to crash during a scan has been resolved.
- Fingerprint improvements.

4.0.260222.0

Feb 22, 2026

- The matching engine now uses hostnames from Rapid7 and Tanium sources to break matches.
- An issue that could cause Explorer processes to crash during a scan has been resolved.
- An issue where excessive memory was used by large vulnerability processing tasks has been resolved.
- An issue that could result in incomplete IPMI enumeration has been resolved.
- The scanner now skips protocol discovery for the Microsoft SQL Server replication service.
- Protocol handling was improved for IDENTD, Daytime, RIP, STUN, and TURN services.

- Fingerprint improvements.

4.0.260219.0

Feb 19, 2026

- The asset inventory search now allows results to be filtered by vulnerability suppression state.
- An issue where scan scheduling grace period settings from scan templates were not being applied has been resolved.
- An issue where old software records were not being properly removed has been resolved.
- The platform now supports a larger limit on asset vulnerability records.
- Fingerprint improvements.

4.0.260218.1

Feb 18, 2026

- An issue that prevented the stale integration attribute cleanup task from completing has been resolved.

4.0.260218.0

Feb 18, 2026

- The AWS integration now supports roles with non-default paths for the IAM Role credential type.
- The SNMP probe now trims whitespace from v3 credentials to avoid inadvertant misconfigurations.
- The PAN API probe data is now used in the Layer-2 topology report.
- The performance of the explorer details view has been improved.

CONTENT UPDATES

- Fingerprint improvements.

BUG FIXES

- An issue that could result in addresses being incorrectly removed from an asset's Addresses Extra list has been resolved.
- An issue that prevented services from using the latest fingerprints when manually refingerprinting assets has been resolved.
- An issue that prevented the IEC 60870-5-104 probe from operating as expected has been resolved.
- An issue that could prevent some MDNS data from being applied to assets as expected has been resolved.

- An issue that prevented TOTP MFA tokens from being deleted by the "Reset security tokens" user action has been resolved.
- An issue that could prevent the speedtest results table from rendering has been resolved.
- An issue that could cause a scan task to report the error `scan data is unavailable` has been resolved.
- An issue that could cause LDAP connector scan tasks to hang when the service is unreachable was resolved.
- An issue that caused assets discovered through the MECM integration to be mis-merged with assets discovered in other Microsoft integrations has been resolved.

4.0.260213.0

Feb 13, 2026

- Performance of loading the scan creation page has been improved.
- The subnet import action on the site edit page will now provide error messages if the chosen file is malformed or incorrect.
- The scanner can better detect and filter bogus MSSQL responses from Azure firewalls.
- The runZero Service Graph Connector's asset export API now defaults to a page size of 1,000.

CONTENT UPDATES

- Fingerprint improvements.

BUG FIXES

- An issue causing tasks to show an inaccurate "Assets ignored" count in the change summary has been resolved.

4.0.260211.0

Feb 11, 2026

- The site options on the import page are now sorted alphabetically.

CONTENT UPDATES

- Fingerprint improvements.

4.0.260210.0

Feb 10, 2026

SECURITY UPDATES

- An issue that could allow a credential to be updated and used for a task from outside of the authorized organization scope has been resolved.

CONTENT UPDATES

- Data extraction from LLMNR sources has been improved.
- Fingerprint improvements.

BUG FIXES

- A bug that could result in missing collection of CLDAP responses has been resolved.

4.0.260209.0

Feb 9, 2026

CONTENT UPDATES

- Fingerprinting and data extraction from CDP sources has been improved.
- The scanner now supports a `redact-secrets` option for the IPMI probe.
- Fingerprint improvements.

BUG FIXES

- An issue that prevented previously scanned assets from being marked offline as expected has been resolved.
- An issue where incorrect vulnerability counts could be returned from metrics calculations has been resolved.
- An issue where AWS integration tasks running with IAM-console credentials within EC2 could not access AWS GovCloud regions has been resolved.
- SNMP-reported interface MACs are skipped if the LAA bit is set and other non-LAA MACs are present in the interface list.
- A bug that could result in HP iLOs being categorized as Server and not BMC has been resolved.

4.0.260208.0

Feb 8, 2026

SECURITY UPDATES

- An issue that could allow access to explorer groups from outside of the authorized organization scope has been resolved.

CONTENT UPDATES

- The scanner reports additional UDP protocols, including echo, daytime, cldap, iec104, llmnr, qotd, stun, time, turn, and zebra.
- The scanner reports new IPMI attributes, including cipher zero support, RAKP hash disclosure, and weak passwords found via RAKP.
- New queries have been added to report vulnerabilities associated with the new IPMI service attributes.
- The scanner supports a new option for the SNMP probe: `debug-scope`. When provided an IP address or CIDR, full diagnostics logs of the SNMP session are recorded into the scan task file.
- Improved normalization for hardware values received through the NetBox integration.
- Fingerprint improvements.

BUG FIXES

- An issue that could prevent custom fingerprints from being used in all situations has been resolved.

4.0.260206.0

Feb 6, 2026

SECURITY UPDATES

- An issue that could expose records outside of the authorized organization scope through the MCP endpoints has been resolved.
- The runZero platform has fully adopted v2 of the AWS Go SDK, addressing potential risk with the out-of-support v1 library.

CONTENT UPDATES

- Fingerprint improvements for Telerik, Cockpit, RustDesk, Home Assistant OS, and Tenable Core.
- Improved device type normalization for free-form values ingested through integrations.

BUG FIXES

- An issue that could result in dashboard vulnerability metrics not matching the underlying queries has been resolved.
- An issue that prevented the scanner from collecting Palo Alto Networks TLS thumbprints has been resolved.
- An issue that could lead to UX issues when viewing an Explorer with a long web screenshot diagnostic message has been resolved.

4.0.260205.0

Feb 5, 2026

SECURITY UPDATES

- An issue that could expose task information outside of the authorized organization scope has been resolved.

CONTENT UPDATES

- The scanner now identifies and reports detailed version information for exposed MCP servers.
- The NetBox connector now better normalizes free-form operating system values.
- Fingerprint improvements.

BUG FIXES

- An issue that regressed the onboarded status filter for Microsoft Defender connections has been resolved.
- An issue that resulted in only a single subnet tag being applied to a matching asset has been resolved.
- An issue that could result in slow loads of the scan configuration page has been resolved.
- An issue that led to SNMP warnings being reported as errors has been resolved.
- The bundled npcap driver has been updated to v1.87, this resolves a potential BSoD in NPF_DoTap().
- The asset inventory now deprioritizes hostnames with the `.localdomain` and .crestron` suffixes.`

4.0.260204.2

Feb 4, 2026

SECURITY UPDATES

- An issue that could allow an authorized user to view the clear-text secrets for a subset of credential types and fields has been resolved.

CONTENT UPDATES

- Fingerprint improvements.

BUG FIXES

- An issue preventing the task inspection card on the task overview from automatically refreshing has been resolved.
- An issue causing the Explorer speed test results to include speed tests from other Explorers within the organization has been resolved.

4.0.260204.1

Feb 4, 2026

- A site name column has been added to the "Software inventory" table.

4.0.260204.0

Feb 4, 2026

- An issue that could cause scan processing to fail with an error has been resolved.

4.0.260203.0

Feb 3, 2026

 SECURITY UPDATES

- An issue that allowed MCP agents to access certificate information from outside of their authorized organization scope has been resolved.
- An issue that allowed administrators to create and update users outside of their authorized organization scope has been resolved.
- An issue that could prevent session inactivity timeouts from triggering due to automatic page reloading has been resolved.
- An issue that could allow a user with access to a credential to view sensitive fields through an API response has been resolved.

 CONTENT UPDATES

- Fingerprint improvements.

 BUG FIXES

- An issue that could cause metric counts to not match live search results in some circumstances has been resolved.
- An issue that could lead to excessive memory use in scan tasks that enable web screenshots has been resolved.
- An issue that could result in `scan data is unavailable` errors for large Explorer-run tasks has been resolved.
- An issue that could trigger a console stack trace when deleting the last organization within an account has been resolved.

4.0.260202.0

Feb 2, 2026

 **NEW FEATURES**

- Internet speed tests can be requested from any deployed Explorer. These tests can be run on-demand as well on a recurring schedule.
- Users may now re-fingerprint assets in bulk from the Asset Inventory using the new "Refingerprint assets" action within the "Modify" action menu.

 **SECURITY UPDATES**

- An issue that allowed MCP agents to access remediation and asset information from outside of the authorized organization scope has been resolved.
- An issue that allowed all-organization administrators to promote accounts to superuser status has been resolved.

 **CONTENT UPDATES**

- Fingerprint improvements.

 **BUG FIXES**

- An issue that could cause site subnet tags on an asset to be inadvertently cleared has been resolved.
- An issue that could cause scans to stall for up to fifteen minutes has been resolved.
- An issue that could cause the scanner to stall during initialization on MacOS has been resolved.
- An issue that could cause tasks to stall while stopping in certain rare cases has been resolved.
- An issue that could cause tasks to stall at 99% in certain rare situations has been resolved.
- An issue that could result in resource leaks during screenshot capture has been resolved.
- An issue that could prevent a custom integration task from re-importing correctly has been resolved.
- An issue that could prevent NetBox imports from including certain assets has been resolved.
- An issue that could lead to custom integration warnings when no integration was specified has been resolved.

4.0.260129.0

Jan 29, 2026

- Fingerprint improvements.

4.0.260128.0

Jan 28, 2026

- The scanner now supports a new "strategy" probe that can be used to adjust the target order. Setting the "scan-sequential" option will switch from randomized target ordering to linear sequential scans. This option can help when assessing large networks with low DHCP lease times.
- An issue where saved queries containing "OR" operators could fail to complete or result in incorrect values has been resolved.
- Fingerprint improvements.

4.0.260127.1

Jan 27, 2026

- Security: This update resolves an internally-identified issue that could have allowed a user to observe an organization's details from outside of the authorized organization scope.
- An issue that could cause scans to take longer than expected in the SYN phase has been resolved.
- An issue that could result in `scan data is unavailable` errors for large Explorer-run tasks has been resolved.
- An issue that could present a browser detection error even when screenshots are available has been resolved.
- An issue where vulnerability links from the asset details page lead to `certificate_id` queries instead of `asset_id` queries has been resolved.
- An issue where scans using valid SNMP v3 credentials could return incomplete information has been resolved.
- A cosmetic issue with the display of large browser detection warning messages has been resolved.
- Fingerprint improvements.

4.0.260127.0

Jan 27, 2026

- The attribute fp.os.cpe23 has been added to the asset CSV export format.
- The scanner can now detect and filter bogus MSSQL responses from Azure firewalls.
- The most recent search query on a datagrid page is now re-populated when returning to the page using the browser forward and back controls.
- An issue where ignored asset counts were over-reported has been resolved.
- An issue causing an incorrect link for the vulnerability count column in the asset inventory has been resolved.

- Fingerprint improvements.

4.0.260126.0

Jan 26, 2026

- Security: This update resolves an internally-identified issue that could have allowed an Explorer within an account to be selected from outside of the authorized organization scope.

4.0.260123.3

Jan 23, 2026

- An issue that could prevent runZero from syncing data from NetBox instances with custom field values has been resolved.
- An issue that could cause slow query performance for `alive` inventory queries has been resolved.

4.0.260123.2

Jan 23, 2026

- An issue that could cause slow performance for the vulnerability groups inventory has been resolved.

4.0.260123.1

Jan 23, 2026

- Security: This update fixes an SQL injection vulnerability introduced in version 4.0.260123.0 related to saved queries.

4.0.260123.0

Jan 23, 2026

- Explorers now monitor available disk space and terminate tasks early if less than 250MiB remains free.
- The performance of vulnerability queries that are limited to risk and source keywords has been improved.
- An issue that prevented file import tasks from importing custom integration data correctly has been resolved.
- An issue that omitted some vulnerabilities with multiple CVEs from the results when searching vulnerability groups by CVE has been resolved.
- An issue that prevented Microsoft SQL Server protocol discovery in some cases where encryption was required has been resolved.

- An issue that prevented sorting credentials by ID has been resolved.
- Fingerprint improvements.

4.0.260120.2

Jan 20, 2026

- The scanner now identifies and tries to work around network interfaces that don't apply BPF rules correctly.
- The match and merge behavior has been improved for SNMP devices and Azure database instances.

4.0.260120.1

Jan 20, 2026

- An issue preventing queries using the `organization` keyword from being created, updated, or imported has been resolved.
- Fingerprint improvements.

4.0.260120.0

Jan 20, 2026

- An issue that could prevent the scanner from capturing web screenshots has been resolved.
- An issue that could prevent asset merges from succeeding in some cases has been resolved.
- The scanner will now ignore bogus FTP service replies from Zscaler systems.
- The Palo Alto Networks connector now reports additional diagnostic data.
- Fingerprint improvements.

4.0.260118.1

Jan 18, 2026

- An issue that could lead to a memory leak in long-running scan tasks that enable web screenshots has been resolved.
- An issue that could prevent asset merges from succeeding in some cases has been resolved.
- The scanner will now better manage memory use in low-memory conditions.
- Fingerprint improvements.

4.0.260118.0

Jan 18, 2026

- The Wiz integration now merges similar vulnerability reports within the same system.
- The NetBox integration now supports versions 4.3.0 and newer.
- An issue that could prevent CrowdStrike syncs from completing during a session refresh has been resolved.
- An issue that could cause runZero Explorers to ping the IMDSv2 service outside of AWS has been resolved.
- Operating system normalization improvements.
- Fingerprint improvements.

4.0.260115.0

Jan 15, 2026

- Recent user data has been added for Microsoft MECM connector tasks.
- An issue that could cause hosted scans to use excessive memory when capturing screenshots has been resolved.
- An issue that could cause search buttons to be incorrectly shown for image attributes has been resolved.
- Fingerprint improvements.

4.0.260114.0

Jan 14, 2026

THIS RELEASE IMPROVES THE SCANNER'S ABILITY TO CAPTURE WEB SCREENSHOTS

- The scanner now uses the Chrome Debug Protocol by default, falling back to the original headless `--screenshot` command-line method if necessary.
- The scanner now supports a wider range of browsers, including many variants of Chromium, as well as Microsoft Edge when running on Windows.
- The scanner now supports environment variables for controlling which version of Chromium is used, including automatic installation.
- The scanner now runs the browser with reduced privileges and within a sandbox when possible.
- The scanner now collects the names of global javascript objects from the browser environment.
- This release also addresses bugs with the previous web screenshot functionality:

- The scanner now disables the browser sandbox on Linux platforms where user namespaces have been disabled and no appropriate AppArmor profile or setuid sandbox helper is present.
- The scanner will complete a self-test at the start of each task and skip web screenshots if initialization fails, avoiding repeated browser crashes.
- The scanner now prevents the browser from writing write core dumps to disk on crash.

IN ADDITION TO THE WEB SCREENSHOT UPDATES

- The Windows Explorer now captures runtime exceptions into a `.err`` file in the executable directory.
- An issue that could result in dashboard metrics not taking into account vulnerability suppressions has been resolved.
- An issue that could prevent LDAP integrations from completing when using trusted TLS certificates has been resolved.
- An issue that could result in partial collection of TCP service information has been resolved.
- An issue that could result in erroneous reporting of MongoDB on port 27017 has been resolved.
- Fingerprint improvements.

4.0.260110.0

Jan 10, 2026

- An issue that could result in out-of-scope IPv6 addresses being reported for scan tasks has been resolved.
- An issue that could lead to the certificate inventory falling out of sync with services has been resolved.
- An issue that could prevent TCP collection from completing in scans has been resolved.
- The individual task size limit was increased from 40GB to 100GB to handle larger vulnerability exports.
- Active vulnerability scans for critical vulnerabilities now include non-HTTP services.
- End-of-Life data is now shown for the Solaris operating system.
- Starlark scripts now support HS256 cryptographic operations.
- Fingerprint improvements.

4.0.260107.1

Jan 7, 2026

- An issue that could result in slow or incomplete enumeration of Windows RDP services has been resolved.
- An issue that could prevent Azure GCC partitions from authenticating correctly has been resolved.

- A performance issue when processing assets with large numbers of MAC addresses has been resolved.
- An issue where asset matching failed when the capitalization of a Windows hostname changed has been resolved.
- An issue that could lead to stale asset removal being excessively slow in large environments has been resolved.
- The bundled npcap driver has been updated to v1.86.
- Fingerprinting improvements.

4.0.260107.0

Jan 7, 2026

- An issue that could prevent the scanner from detecting recent versions of MongoDB's wire protocol has been resolved.
- Fingerprint improvements.

4.0.260106.0

Jan 6, 2026

- An issue that could prevent IAM role authentication from succeeding has been resolved.
- Tasks that process extremely large vulnerability exports now use less disk space.
- Fingerprint improvements.

4.0.260105.0

Jan 5, 2026

- An issue that could result in the hosted scanner ignoring assets with internal IPs has been resolved.
- An issue where the Azure GCC integration used the wrong endpoint has been resolved.
- The scanner now collects detailed statistics for every TCP connection.
- The AWS integration now collects additional information for failed logins.
- The API now allows task credentials to be specified within scan templates.
- Fingerprint improvements.

4.0.251231.0

Dec 31, 2025

- An issue that could lead to over-merging of assets in passive sampling tasks has been resolved.

- The Google Workspace integration now reports an asset-level serial number attribute.
- Fingerprint improvements.

4.0.251230.1

Dec 30, 2025

- Task processing now better handles ARP proxies for asset matching on small network segments.
- An issue that could lead to inconsistent SNMP fingerprinting in rare situations has been resolved.
- Fingerprint improvements.

4.0.251230.0

Dec 30, 2025

- Scan task processing is significantly faster and reduces instances of ghost assets when specific firewalls are present.
- Fingerprint improvements.

4.0.251228.0

Dec 28, 2025

- An issue that could result in out-of-scope assets being marked as offline has been resolved.
- Fingerprint improvements.

4.0.251224.0

Dec 24, 2025

- Self-hosted installations now correctly remove old binaries during updates when installed in a non-default location.
- An issue that could prevent the Findings view from loading in All Organizations mode has been resolved.
- An issue that could cause tasks to show greater than 100% completion been resolved.
- An issue that could prevent the findings-with-instances event rule from saving the Risk filter has been resolved.
- The text "Assets updated by task" in task details has been updated to reflect that this is the number of observed assets, not the changed count.
- Fingerprint improvements.

4.0.251222.0

Dec 22, 2025

- An issue that could result in passive sampling tasks clearing services from unmatched site assets has been resolved.
- Self-hosted customers can now specify a proxy for AWS integrations with the `HTTPS_PROXY_AWS` setting.

4.0.251221.1

Dec 21, 2025

- An issue that could result in passive sampling tasks marking scanned assets as offline has been resolved.

4.0.251221.0

Dec 21, 2025

- Large scan and passive sampling tasks are now processed faster.
- An issue that could result in CrowdStrike tasks aborting early when the remote endpoint was slow to respond has been resolved.
- An issue in the handling of hostname-based matching for systems named `test` has been resolved.
- Fingerprint improvements

4.0.251218.1

Dec 18, 2025

- Passive sampling, PCAP import, and reprocessed tasks now handle IP address reassignments more accurately.
- The merge behavior for long hostnames with truncated NetBIOS responses has been improved.
- An issue that could result in large scan grace periods wrapping to negative has been resolved.
- Fingerprint improvements

4.0.251218.0

Dec 18, 2025

- An issue that could result in default login tests running when they were not explicitly enabled has been resolved.
- An issue that resulted in DNS requests being sent with brackets in the hostname has been resolved.

- The merge behavior for NetBIOS responses from multi-homed assets has been improved.
- The Findings inventory now loads much faster for large organizations.
- Fingerprint improvements.

4.0.251217.0

Dec 17, 2025

- An issue which prevented the widget library modal search from showing custom widgets has been resolved.
- An issue which showed an incorrect icon for the Huawei iBMC OS has been resolved.
- An issue that prevented creating, updating, or automatic running of saved certificate queries has been resolved.
- An issue that prevented setting or exporting tags with a value consisting of a single double-quote character `"` has been resolved.
- Fingerprint improvements.

4.0.251216.0

Dec 16, 2025

- Added the ability to search services by a related certificate.
- An issue that could cause the asset attribute `runZeroLastScanTS` to contain invalid data has been resolved.
- An issue that could prevent OS EOL from being asserted during manual merging or refingerprinting has been resolved.
- Fingerprint improvements.

4.0.251212.0

Dec 12, 2025

- Security: This update fixes two security issues identified by our external assessment partner. The first was a SQL injection vulnerability in the autocomplete backend and the second was related to improper access control for custom dashboards and widgets.
- Findings, Vulnerability Groups, and Vulnerabilities now support [suppressions] (<https://www.runzero.com/blog/vulnerability-management-suppressions/>).
- Custom Integration scripts can now read HTTP response headers using the `http` or `requests` modules. They can be accessed as `response.headers["Header-Name"]` and return a string array.

- The CrowdStrike integration now includes the CrowdStrike ExPRT Rating attribute when applicable.
- End-of-Life tracking has been improved for Windows versions where the network response returns incorrect version information.
- The self-hosted installer now defaults to using PostgreSQL 18 (up from 16).
- Alert rules can now be configured for certificate queries, using the event type `certificate-query-results`.
- An issue that could cause a blank dashboard to be created when deleting a dashboard has been resolved.
- An issue that could prevented some Tenable attributes from processing properly has been resolved.
- An issue that could lead to incorrect asset fingerprinting after a manual merge has been resolved.
- An issue that prevented the runZeroLastScanTS attribute from being set for imported scan data has been resolved.
- Performance improvements.
- Fingerprint improvements.

4.0.251209.0

Dec 9, 2025

- The Microsoft InTune integration now supports optionally retrieving LAPS information for assets.
- Merge logic has been improved for the Wiz integration.
- An issue that caused the Groups data table to have a broken layout has been resolved.
- Performance improvements.
- Fingerprint improvements.

4.0.251208.0

Dec 8, 2025

- Security: This update fixes an open-redirect issue in the `next` parameter that was identified by our external assessment partner.
- An issue that could lead to stale Software Counts on assets has been resolved.
- The scanner now captures LLDP attributes via SNMP.
- Fingerprint improvements.

4.0.251206.1

Dec 6, 2025

- The Tenable integration now supports WAS vulnerability imports.

4.0.251206.0

Dec 6, 2025

- Security: This update fixes two open-redirect issues in the `next` parameter that were identified by our external assessment partner.
- The performance of job processing for exceptionally large assets has been improved.
- An issue that could result in User Groups not being shown has been resolved.
- The MCP server now uses organization_id consistently between tools.
- Fingerprint improvements.
- Note that this is a Console-only update (no new Explorers or CLI).

4.0.251204.0

Dec 4, 2025

- An issue that could cause the scanner to crash in rare cases has been resolved.
- An issue preventing the HTTP `X-Powered-By` headers from populating has been resolved.
- Fingerprint improvements.

4.0.251203.0

Dec 3, 2025

- An issue that could result in an invalid domain name being extracted from Active Directory integration data has been resolved.
- An issue that caused some assets with integration data to merge incorrectly during scan tasks has been resolved.
- Performance improvements.
- Fingerprint improvements.

4.0.251202.0

Dec 2, 2025

- Security: This update builds on Go v1.25.5, which includes security fixes related to TLS validation.
- Inventory search of asset attributes now specifically handle version comparison queries.
- An issue that prevented the user profile notification email from being set correctly has been resolved.

- An issue that could lead to incorrect TLS stack fingerprinting has been resolved.
- An issue that prevented Defender vulnerability imports from setting Risk correctly has been resolved.
- An issue that could lead to task data corruption due to `deflate` errors has been resolved.
- The Wiz integration now works around the 10,000 result limit for assets by switching to the report API.
- The Prisma integration now more accurately matches and merges assets by host name.
- Various performance improvements across the user interface and processing backend.
- Fingerprint improvements.

4.0.251201.0

Dec 1, 2025

- Security: This update fixes two security issues found during internal review. Both issues were introduced in the 4.0.251120.0 release and (ironically) were related to the upcoming vulnerability suppression feature. The first issue is a SQL injection vulnerability in the `suppressed` search keyword. The second issue could allow vulnerability suppression rules to be applied to records outside of the authorized organizations if the unique ID records were known.

4.0.251128.0

Nov 28, 2025

- An issue that could result in excessive cpu and disk usage for pcap imports has been resolved.
- Fingerprint improvements.

4.0.251126.2

Nov 26, 2025

- Security: This update fixes an issue that could allow a user without an all-organization role to view the organization hierarchy.
- Qualys syncs now retry more often in the case of connection drops and timeouts.
- TLS fingerprinting now specifically flags services using Go 1.25.0 or newer.
- Console tasks interrupted by lack of disk space now retry automatically.
- Fingerprint improvements.

4.0.251126.1

Nov 26, 2025

- Fingerprint improvements.

4.0.251126.0

Nov 26, 2025

- An issue that could cause errors when existing TLS certificates are associated with new services has been resolved.

4.0.251125.1

Nov 25, 2025

- An issue that could cause errors when recording TLS certificates has been resolved.

4.0.251125.0

Nov 25, 2025

- The Explorer now reports an error when trying to use IAM role credentials outside of an AWS environment.
- The Certificates inventory now supports the `risk` and `ocsp_stapling` keywords as well as sorting on `risk`.
- An issue that could prevent queries with organization keywords from setting dashboard metrics has been resolved.
- An issue that could cause the console to use excessive disk space during processing has been resolved.
- An issue that could lead to a stale risk score for updated TLS findings has been resolved.
- A bogus MAC presented by some printer models will no longer be used for matching (Wave7 Optics).
- Fingerprint improvements.

4.0.251122.1

Nov 22, 2025

- An issue that could prevent removal of stale software group entries has been resolved.
- Fingerprint improvements.

4.0.251121.0

Nov 21, 2025

- The Prisma integration has been updated to support three new assets types: Azure Scale Set VM, Azure SQL VM, and Azure SQL Database.
- Fingerprint improvements.

4.0.251120.2

Nov 20, 2025

- Performance improvements.

4.0.251120.1

Nov 20, 2025

- An issue that could cause issues during runZero console updates has been resolved.

4.0.251120.0

Nov 20, 2025

- The keyword "risk" is now a searchable term in the certificate inventory.
- Updated `npcap` to version 1.85.
- An issue that may cause existing certificates found before v4.0.251118.0 to not be properly related to its services has been resolved.
- An issue with asserting End of Life for a subset of Windows LTSC versions in Tanium data has been resolved.
- An issue causing Windows edition information to be missing from assets fingerprinted from LDAP data has been resolved.
- An issue that could prevent users with the User role from creating integration tasks has been resolved.
- Failures related to AWS IAM Role operations outside of an AWS context have been clarified.
- An issue that caused the "Include CIDRs" and "Include Site Names" NetBox integration parameters to be missing from the CLI scanner has been resolved.
- An issue preventing tooltips from showing correctly in the certificate details page has been resolved.
- Fingerprint improvements.

4.0.251118.0

Nov 18, 2025

- The Tenable integration can now optionally exclude Tenable Agent data.

- Certificates now track `OCSP stapling` and `name constraints` fields along with new search keywords.
- Certificates now track a `risk` field, which can be overridden and used for search, similarly to asset risk.
- An issue that could cause the scanner to crash abruptly in rare situations has been resolved.
- An issue that could cause duplicate Tenable Security Center assets in some circumstances has been resolved.
- An issue that caused the screen to flash when downloading a certificate PEM has been resolved.
- An issue that prevented indicator icons from animating correctly has been resolved.
- An issue that caused tooltips to show on fully displayed card titles has been resolved.
- Fingerprint improvements.

4.0.251114.0

Nov 14, 2025

- The NetBox integration now supports the ability to override asset information from custom fields.
- The NetBox integration now offers searchable `TS` variants of the `Date` and `Date & Time` fields.
- Asset matching of third-party integration data now merges into the most recently-seen scanned asset.
- An issue that could prevent metrics calculation from completing in some cases has been resolved.
- Fingerprint improvements.

4.0.251113.2

Nov 13, 2025

- An issue that could cause TLS enumeration to abort early has been resolved.

4.0.251113.1

Nov 13, 2025

- An issue that could cause search errors when searching for certain values in numeric fields has been resolved.

4.0.251113.0

Nov 13, 2025

- An issue that could prevent the task details page asset change log from being fully displayed has been resolved.

- An issue that causes the `site:scope` keyword to not be respected in the scan exclusions when the `defaults` keyword was specified as well has been resolved.
- Improved logic for merging assets by hostname.
- An issue that could cause mismerged assets when processing scan tasks has been resolved.
- An issue that caused scan results to fail when processing has been resolved.
- An issue that resulted in verification errors for Azure Client Secret credentials in the GCC environment has been resolved.
- An issue that caused the Qualys integration to not retry on a connectivity error has been resolved.
- An issue that prevented task collection logs from being recorded has been resolved.
- An issue that could cause scans to freeze in rare cases has been resolved.
- Fingerprint improvements.

4.0.251105.0

Nov 5, 2025

- Added a new `associated_vulnerabilities` field to the certificates inventory that shows the count of certificate vulnerabilities related to the associated services.
- Added a `validity_period` attribute to certificates in the Certificates Inventory that displays the lifetime of a certificate.
- An issue causing baseline goals using certificate queries to fail has been resolved.
- An issue where manually merging assets with integration data could result in duplicate assets when the integration runs again in certain circumstances has been resolved.
- An issue causing Explorers to appear as new on restart in self-hosted installations has been resolved.
- Improved merge logic for the Tenable Security Center integration.
- Fingerprint improvements.
- MCP improvements.

4.0.251103.0

Nov 3, 2025

- The Meraki integration has been improved to better handle hostnames with spaces.
- An issue that caused a panic when processing Active Directory / LDAP data has been resolved.
- Fingerprint improvements.

4.0.251031.0

Oct 31, 2025

- An issue that caused users to not be able to select hosted zones on the scan page has been resolved.
- If an asset has duplicate copies of attributes from an integration, they will now be cleaned up during task processing for that integration.
- An issue with the Crowdstrike integration that caused assets to be incorrectly skipped due to an incorrect last seen filter has been resolved.
- An issue has been resolved that may cause certificate details to not be displayed when related services have already been removed.
- Fingerprint improvements.
- MCP improvements.

4.0.251030.0

Oct 30, 2025

- An issue that prevented navigating from the linked "Matches" column on the queries list for certificate queries to the pre-filtered certificate list has been resolved.
- An issue that caused template scans to fail to be created has been resolved.
- An issue that prevented custom integration icons from displaying in software data grids has been resolved.
- An issue that could cause the scanner to stall in rare cases has been resolved.
- Fingerprint improvements.

4.0.251028.0

Oct 28, 2025

- Organization and account administrators may now modify and reorder the attribute list used to determine default asset ownership on a per-organization or account-level basis.
- The AWS integration can now import from multiple AWS accounts without using AWS Organizations via a new AWS IAM Role credential type.
- A new "Report incorrectly merged asset" action has been added to the hamburger menu on the asset details page to allow quicker support contact when viewing an asset believed to be incorrectly merged.
- A new `Certificate and TLS Service Risks` finding has been added that groups queries from Certificates and TLS Services that contribute to Certificate Risk.
- Added the ability to search services by all certificates in the certificate chain using their `sha256`, `sha1`, or `bk_hash` attributes.

- An issue which prevented a certificate's extended key usage from displaying correctly has been resolved.
- Fingerprint improvements.

4.0.251023.0

Oct 23, 2025

- Ownership information is now included in software CSV exports.
- The `start_scan` tool has been added to the runZero MCP service.
- When processing assets, ``@tanium.dev.lastLoggedInUser`` is now included in the list of attributes used to determine default ownership for an asset.
- An issue that prevented data collection from TLS wrapped services in some cases has been resolved.
- An issue the prevented asserting Proxmox EOL information has been resolved.
- Phantom device detection has been improved.
- Merge logic improvements.
- Fingerprint improvements.

4.0.251021.0

Oct 21, 2025

- Certificates now show associated services, assets, and vulnerabilities. Multiple search terms have been added, and an enhanced UI is introduced.
- Support for Explorer Groups has been added to the public scan API endpoint.
- An issue which limited the duration of the TLS socket in a ztls handshake has been resolved.
- An issue which affected performance in integrating with Nuclei has been resolved.
- An issue which prevented changes in dashboard custom widgets from persisting without reloading the app in the browser has been resolved.
- An issue that could prevent recent LAPS schema attributes from being discovered has been resolved.
- An issue that caused the subnet sampling parameters for a scan to not be persisted has been resolved.
- Fingerprint improvements.

4.0.251017.0

Oct 17, 2025

- An issue that caused tasks to stay in the `New` state and never get scheduled if a runZero Explorer upgrade failed has been resolved.
- An issue that could cause runZero scans to stall in a partially-completed state has been resolved.
- Fingerprint improvements.

4.0.251016.0

Oct 16, 2025

- The services inventory now supports searching by certificate_id.
- The certificates inventory now supports shorthand search for attributes of `pk_parameters:` fields, such as `rsa_exponent:65537`.
- The "Refingerprint asset" action is now always available on the asset details page.
- The ability to create new sites within an organization must be requested via support for new customer accounts. Existing customer accounts can still create sites.
- Meraki IP addresses used for internal purposes are now filtered out of asset records.
- An issue causing foreign attribute names on the Asset detail page to overflow over the displayed value has been resolved.
- An issue that prevented screenshots and favicon images from being displayed on the asset details page has been resolved.
- An issue that caused analysis tasks to run for a new organization with no completed tasks has been resolved.
- An issue that caused some query links to work incorrectly in the Rapid Response Alert emails has been resolved.
- An issue that could cause Qualys tasks to fail with "unexpected EOF" errors has been resolved.
- Fingerprint improvements.

4.0.251015.1

Oct 15, 2025

- An issue that could cause self-hosted installations of the runZero console to have issues updating has been resolved.

4.0.251015.0

Oct 15, 2025

- The forms for NetBox, Intune, Meraki, Miradore, Google Workspace, Censys, LDAP, Shodan and AzureAD integration tasks have been updated for a consistent user experience and to allow selection of Explorer groups for running tasks.
- Serial numbers have been added to SentinelOne integration device attributes.
- An issue that prevented running passive scans on a network interface without assigned IP addresses has been resolved.
- An issue causing incorrect OS fingerprinting from Qualys data has been resolved.
- An issue that prevented sorting vulnerabilities by finding name when viewing asset details has been resolved.
- An issue that prevented the `echo-filter-spoofed-responses` probe option from functioning properly has been resolved.
- The `echo-filter-spoofed-responses` probe option has been renamed to `echo-ignore-icmp-only-internal-hosts`.
- Fingerprint improvements.

4.0.251008.0

Oct 8, 2025

- A system configuration option to disable CSRF protection has been added for self-hosted instances.
- An issue that prevented asset attribute reports from loading has been resolved.
- An issue that caused some vulnerabilities to be removed when two assets merged together has been resolved.
- Fingerprint improvements.

4.0.251007.2

Oct 7, 2025

- An issue that caused `duplicate key` errors in some scan tasks has been resolved.

4.0.251007.1

Oct 7, 2025

- Certificates may now be queried by the "signature" and "public_key".
- The Microsoft Configuration Manager (MECM) integration now supports filtering by device collection ID.
- An issue in MCP query syntax for wireless providing the incorrect keys has been resolved.

- An issue that could result in incorrect asset software when processing Wiz integration data has been resolved.
- An issue that prevented vulnerability detection dates from updating after an asset is scanned has been resolved.
- An issue that prevented remediated vulnerabilities from being removed after scanning has been resolved.
- An issue that could cause unexpected merge behavior during integration tasks has been resolved.
- An issue that prevented stale AWS assets from being removed when the relevant task option is enabled has been resolved.
- Fingerprint improvements.

4.0.251007.0

Oct 7, 2025

- An issue that could cause scans to stall in certain situations has been resolved.

4.0.251003.0

Oct 3, 2025

- Custom integration scripts can now use ``trust_device_type``, ``trust_os`` and ``trust_os_version`` attributes on the ``ImportAsset`` object to set an asset's fingerprint even if the custom values cannot be normalized via runZero's fingerprint engine.
- AWS IAM credentials can now be configured with a static external ID at the account level.
- An issue that prevented creating baseline goals against the certificates inventory has been resolved.
- An issue that could cause the connector form to fail to select the configured Explorer option when editing recurring connector tasks has been resolved.
- An issue that prevented editing a recurring connector task to stop running it on an Explorer has been resolved.
- Fingerprint improvements.

4.0.251001.0

Oct 1, 2025

- The new Explorer groups feature allows you to create logical groupings of explorers that will intelligently schedule tasks amongst themselves.
- An issue that prevented Azure Government credentials from validating successfully has been resolved.

- An issue that caused MECM tasks to hang for a long period of time after the task was stopped has been resolved.
- Fingerprint improvements.

4.0.250930.0

Sep 30, 2025

- The following MCP tools were added: `list_sites`, `query_directory_group`, and `query_wireless`.
- The vulnerability inventory by asset can now be searched by certificate attributes, including ID, type, serial, public key, signature, fingerprint, subject, issuer, and key usage.
- The Qualys integration now collects data with multiple parallel threads when available.
- An issue that caused the Rapid Response alert emails to be sent once per site with results instead of once per organization has been resolved.
- An issue that could result in slow CSV software exports has been resolved.
- An issue where searching for certificates by the `is_ca` field did not work correctly has been resolved.
- An issue causing the runZero Console's CSP policy to block custom JavaScript in self-hosted environments has been resolved.
- An issue that caused the site configuration page to display subnet tag key names that contain underscores incorrectly formatted has been resolved.
- An issue that caused some integrations not to be recognized as active has been resolved.
- Fingerprint improvements.

4.0.250926.0

Sep 26, 2025

- Assets can now be searched by certificate attributes, including ID, type, serial, public key, signature, fingerprint, subject, issuer, and key usage.
- The Prisma integration has been updated to support Azure VMs, GCP VMs, Azure Load Balancers, Azure SQL Server, and Azure Cosmos DB.
- Hostname matching logic has been improved.
- An issue that prevented the display of custom widgets for the certificate query type has been resolved.
- An issue that caused the MAC vendor to be incorrectly identified from airplay devices/services has been resolved.
- An issue that could result in invalid characters being sent during IPV6 DNS requests has been resolved.

- Fingerprint improvements.

4.0.250924.1

Sep 24, 2025

- An issue that could result in service cleanup failing when the database is heavily loaded has been resolved.

4.0.250924.0

Sep 24, 2025

- Enabled certificate queries to apply a vulnerability record to matching assets.
- An issue that could result in an empty "References" section in the vulnerability details view has been resolved.
- An issue that caused the Findings list page and Findings detail pages to load slowly has been resolved.
- An issue that could prevent some assets from merging as expected during integration processing has been resolved.
- An issue that where invalid SNMP responses could result in assets having incorrect hostnames has been resolved.
- An issue where copying a Dragos task could omit values in the subnet filter input has been resolved.
- The Tanium integration has been updated to improve filtering of bad data during data collection.
- Fingerprint improvements.

4.0.250922.1

Sep 22, 2025

- An issue that could cause the console service to restart during heavy processing has been resolved.

4.0.250922.0

Sep 22, 2025

- The site configuration page has been improved to add a CSV import feature for configuring subnets.
- The MECM integration now imports information about the last software patch applied via MECM in three new attributes: `lastSoftwarePatchTitle`, `lastSoftwarePatchArticleID`, and `lastSoftwarePatchTime`.
- The Wiz integration now includes a task parameter to allow customizing what Wiz resource types are imported into runZero.

- Two new attributes were added to the Wiz integration, `@wiz.dev.resourceType`` and `@wiz.dev.resourceApiType``, corresponding to the Wiz resource type.
- Azure Client Secret credentials now have the ability to include / exclude user-specified subscription IDs, along with various other improvements around service verification.
- Self-hosted customers can now disable all public API endpoints by setting the `RUNZERO_DISABLE_PUBLIC_APIS`` value to `true`` in `/etc/runzero/config``.
- An issue preventing the license expiration warning from displaying suggested actions to a superuser has been resolved.
- An issue that could prevent assets from merging as expected when processing Qualys integration tasks has been resolved.
- Asset fingerprinting from Tanium data has been improved.
- Fingerprint improvements.

4.0.250918.0

Sep 18, 2025

- An issue that prevented the self-hosted installer from completing on certain RHEL versions and variants has been resolved.

4.0.250917.2

Sep 17, 2025

- An issue that prevented some AWS tasks from completing has been resolved.

4.0.250917.1

Sep 17, 2025

- An issue that prevented Tenable Nessus scans from completing has been resolved.
- An issue that caused some Qualys tasks to fail has been resolved.

4.0.250917.0

Sep 17, 2025

- The Dragos integration now allows the use of TLS thumbprints within the credential configuration.
- Removed the option to apply a vulnerability record to matching assets for certificate queries.
- Memory management has been improved to prevent tasks with a large amount of vulnerability data from failing due to memory exhaustion.

- Improvements to how the scanner interacts with certain OT devices.
- An issue causing certificate queries matches to not be calculated has been resolved.
- An issue that could prevent a scan from running and cause an "explorer failed to queue task" error has been resolved.
- An issue that could cause assets with Qualys data to merge incorrectly in some circumstances has been resolved.
- An issue preventing users with no default role from creating "Email runZero users" alert channels for organizations they have access to has been resolved.
- An issue that could prevent copying Wiz integration tasks has been resolved.
- An issue that caused incorrect vulnerability counts on assets has been resolved.
- An issue that could cause the task tables from displaying rows has been resolved.
- An issue causing Rapid Response alert emails to be completely illegible in Classic Outlook has been resolved.
- An issue that prevented viewing the Findings list resulting in an "array size exceeds the maximum allowed" has been resolved.
- Fingerprint improvements.

4.0.250912.0

Sep 12, 2025

- The MCP server now supports retrieving vulnerabilities.
- Fingerprint improvements.

4.0.250910.0

Sep 10, 2025

- The "Fingerprint Only" integration task option has been replaced by separate options to disable the import of software and/or vulnerabilities for CrowdStrike, MS365Defender, SentinelOne, Wiz, Tenable, Rapid7 InsightVM, and Qualys.
- The Dragos integration has been updated to filter asset results by subnets.
- All superuser accounts in trial and platform licensed tenants have been subscribed to automatic email alerts whenever a Rapid Response query's match count is greater than zero. These alerts can be turned off by disabling the appropriate rule on the alert rules page, and specific users can be excluded from these alerts by adding them to the "Excluded users" field of the appropriate alert channel.
- The Rapid Response MCP tool has been updated to function in offline environments.
- An issue that could result in an error when manually merging assets has been resolved.

- An issue that limited the number of top metrics to 10 in the Organization overview report has been resolved.

4.0.250908.0

Sep 8, 2025

- Certificate queries can now be saved to the query library and support searching on fields ``signature_algorithm_insecure``, ``public_key_insecure``, ``public_key_algorithm``, ``public_key_bits``, ``pk_parameters``, ``signature_algorithm``, ``key_usage``, ``ext_key_usage``, ``version``, ``ocsp_server``, ``crl_distribution_points``, and ``issuing_certificate_url``.
- The Rapid7 InsightVM integration now has the ability to filter results by InsightVM site name using regex pattern matching.
- Custom integrations that run on hosted Explorers no longer have a script size limit.
- The ability to copy a user's invitation link to clipboard has been removed.
- Assets can now be searched by a ``finding_code`` term on the Assets page and via the assets API.
- The Qualys integration now supports excluding assets with certain tags during import.
- Updating Licensed entity details now displays a save confirmation dialog.
- The MCP server now supports retrieving query findings.
- Asset export APIs no longer include a ``finding_count`` attribute.
- An issue causing SSO group access details to not display unless the user was logged in has been resolved.
- An issue preventing the ability to hide a certificate from view has been resolved.
- An issue preventing updating the query on a saved query goal or custom widget has been resolved.
- An issue that prevented some Wiz serverless assets from merging with AWS assets has been resolved.
- An issue preventing selecting all rows in a table has been resolved.
- An issue that could cause an asset to be duplicated during task processing in some circumstances has been resolved.
- An issue causing the "Latest Rapid Response" dashboard widget to display data from all sites despite selecting a site filter has been resolved.
- An issue that resulted in duplicate findings being returned from findings APIs has been resolved.
- An issue that caused widget history charts to display inaccurate timestamps has been resolved.
- An issue that could provide confusing table contents in the current organization team table has been resolved.

- Fingerprint improvements.

4.0.250904.0

Sep 4, 2025

- Fingerprint improvements.

4.0.250902.0

Sep 2, 2025

- runZero now integrates with the Dragos platform.
- Vulnerability details now include additional enrichment and offer an improved user experience.
- The Tanium integration now supports skipping software and vulnerabilities.
- An issue causing assets with hostnames of 3 or fewer characters to merge unexpectedly has been resolved.
- An issue that could cause recurring tasks to schedule duplicate sub-tasks has been resolved.
- An issue that prevented site CSV import error messages from being displayed has been resolved.
- An issue that could cause Qualys connections to fail when the initial response is slow has been resolved.
- An issue that prevented the Wiz integration from importing some types of assets has been resolved.
- An issue that prevented some Meraki assets from merging as expected has been resolved.
- Fingerprint improvements.
- Merge logic improvements.

4.0.250901.0

Sep 1, 2025

- Fingerprint improvements.

4.0.250828.1

Aug 28, 2025

- Fingerprint improvements.

4.0.250828.0

Aug 28, 2025

- An issue that prevented SNMPv3 credentials from being updated with an empty context has been resolved.
- An issue preventing users from viewing the details page of certificates that lack a subject has been resolved.
- An issue that resulted in missing start times for recurring connector tasks running on the console has been resolved.
- Fingerprint improvements.

4.0.250826.1

Aug 26, 2025

- An issue that resulted in malformed asset type fields for unmanaged Meraki assets has been resolved.
- The heuristics for asset type selection between tablets, laptops, and desktops have been improved.

4.0.250826.0

Aug 26, 2025

- An issue that prevented AWS and Wiz tasks from automatically removing unseen assets has been resolved.
- An issue that prevented a scan template's Exclude Hosts configuration option from being respected when changing sites has been resolved.
- An issue where newly discovered assets with missing addresses can cause the "Newly discovered assets" table to fail to show properly after an integration task has been resolved.
- An issue that caused Meraki assets to merge incorrectly in some circumstances has been resolved.
- An issue that occurred when removing a custom integration or source from assets has been resolved.
- An issue that caused duplicate software and vulnerability groups has been resolved.
- An issue that allowed custom integrations to be removed from assets across tenants without enforcing permissions has been resolved.
- An issue that could cause multiple connector tasks to be processed at the same time has been resolved.
- Scans now include safe checks for many remotely exploitable critical vulnerabilities by default.
- Explorer scan concurrency can now be updated via the runZero Organization API.
- Fingerprint improvements.

4.0.250820.0

Aug 20, 2025

- Goals, alert rules, alert channels, and alert templates can now optionally have new organizations automatically assigned to them if "Automatically add new organizations" is selected in their options.
- The runZero-managed Risk Management dashboard's Latest Rapid Response widget has been updated to include a paginated carousel of the five most recent Rapid Response posts.
- An issue that could cause the Active Directory integration to fail to collect data in large environments has been resolved.
- An issue that could prevent the Switch Topology Report from loading has been resolved.
- An issue that could cause integration tasks to end prematurely before finishing data ingestion has been resolved.
- An issue that blocked AWS IAM Role credential external ID creation has been resolved.
- An issue that could cause certificates to not show in scan results has been resolved.
- An issue affecting querying inventory via MCP from some models has been resolved.
- Fingerprint improvements.

4.0.250818.0

Aug 18, 2025

- Shared dashboards can now be viewed in "My organizations" mode.
- An issue that caused the organization search keyword to be ignored in some inventory searches has been resolved.
- An issue that could cause tasks to be marked as 'Failed to queue' has been resolved.
- An issue causing a deadlock in the hub messaging system has been resolved.
- A regression preventing tooltips from appearing on some table cells in data tables throughout the console has been resolved.
- Fingerprint improvements.
- Beginning shortly after the release of runZero v4.0.250818.0, a small subset of active customers registered to the US region will be enrolled in automatic Rapid Response Matches alerting as part of a phased roll-out. Customers in other regions, including self-hosted customers, will automatically be enrolled at a later date.

4.0.250814.1

Aug 14, 2025

- An issue that could cause Explorers to disconnect and reconnect repeatedly has been resolved.

4.0.250814.0

Aug 14, 2025

- Performance and user experience of the Switch Topology Report has been improved.
- Rendering performance of the data tables throughout the product has been improved.
- The Explorer deploy page now displays the currently active organization in the page header.
- The documented minimum operating system requirements for the runZero Explorer and CLI tool have been updated.
- An issue that could cause the Explorer/Scanner to use excessive memory when scanning HTTP endpoints has been resolved.
- An issue that could cause the Explorer service to fail to start when the service was marked interactive has been resolved.
- An issue that could cause tasks to be marked as 'Failed to queue' has been resolved.
- An issue that could cause asset searches to generate an invalid query has been resolved.
- An issue that could limit the number of returned software results has been resolved.
- Fingerprint improvements.

4.0.250811.1

Aug 11, 2025

- An issue that could cause tasks to freeze when running has been resolved.

4.0.250811.0

Aug 11, 2025

- The layout of regions in the AWS configuration form has been improved.
- An issue that could cause the `runZeroLastScanTS` attribute to be removed in some cases has been resolved.
- An issue where an asset's type could be incorrectly initialized as its method of detection in some cases has been resolved.
- An issue that caused the runZero Splunk add-on to import all assets regardless of the last sync has been resolved.
- An issue that prevented saving event templates with invalid Mustache template syntax has been resolved.

- Fingerprint improvements.

4.0.250808.0

Aug 8, 2025

- All users across the platform may now create event rules for the following events:
- `rapid-response-published` - triggered when one or more Rapid Response queries are published, updated, or removed from the console.
- `rapid-response-with-matches` - triggered when a Rapid Response query's results change.
- `findings-with-instances` - triggered when findings instance counts are updated.
- An issue causing the progress bar in the Switch Topology Report to not be hidden when the report has completed loading has been resolved.
- Fingerprint improvements.

4.0.250807.0

Aug 7, 2025

- An issue causing the progress bar in the Switch Topology Report to delay showing has been resolved.
- An issue with inventory search with multiple organizations has been resolved.
- Performance improvements.
- Fingerprint improvements.

4.0.250805.0

Aug 5, 2025

- Asset matching has been improved by now considering hardware information, when available.
- The Qualys integration now allows for filtering assets that have not been scanned for a configurable time period.
- AWS integration now supports cross-account AWS roles for authentication.
- Experimental MCP server now available. It is an opt-in extension where users may bring their own LLM to interact with their runZero deployment.
- Tenable assets with agents will now have their agent health property shown as N/A when an invalid agent health property is received instead of omitting the agent health property from the asset.
- Fingerprint improvements.
- An issue that could cause online Explorers to disappear from the Explorers list has been resolved.

- An issue that caused subdomain expansion to return false domains for several domains has been resolved.
- An issue that could cause Nessus-reported vulnerabilities to have stale descriptions has been resolved.
- An issue in the network bridges report that caused the site to be deselected when changing the filter has been resolved.
- An issue that prevented the vulnerability table on the Asset Details page from sorting by finding name has been resolved.
- An issue that could cause the inventory table to crash with an error message when viewing data containing invalid country codes has been resolved.
- An issue that could cause a copied custom integration task to show an error and fail before the task could run has been resolved.

4.0.250801.1

Aug 1, 2025

- An issue that could cause some explorers that were online to be missing in the explorer view has been resolved.
- Improved merge logic memory usage.
- Updated the embedded npcap version to 1.83.

4.0.250801.0

Aug 1, 2025

- An issue that could cause scan tasks to stall in a partially-completed state under certain conditions has been resolved.
- Fingerprint improvements.
- Security update: This release includes a minor fix for an internally-discovered bug in dashboard and goal permissions, where one user may be able to retrieve the dashboard or goal configuration of another user. This is only theoretically possible if they could guess the v4 random UUID of this entry, which is not visible cross-user in these scenarios. We do not believe this exposes sensitive data in any typical configuration and we have no evidence of it being exploited.

4.0.250731.1

Jul 31, 2025

- Added the `insecure_check_verify` option to the http_post and Session custom integration script libraries.

- Combined the `Metrics` and `Query metrics, vulnerabilities, and findings` background tasks into a single streamlined task.
- Fixed an issue that prevented removal of some stale AWS assets.
- Fingerprint improvements.

4.0.250731.0

Jul 31, 2025

- An issue that could cause some integration tasks to freeze and restart during processing has been resolved.

4.0.250730.0

Jul 30, 2025

- An issue that could cause integrations to report duplicate assets has been resolved.

4.0.250729.1

Jul 29, 2025

- An issue that caused some tasks to fail during processing has been resolved.
- An issue that could trigger a search error when pivoting from the goal creation/edit page to the inventory has been resolved.

4.0.250729.0

Jul 29, 2025

- Custom integration tasks now have the option to exclude unknown assets from the scan results.
- When the "delete stale assets" option of an AWS integration task is enabled, only stale assets from the AWS accounts associated with the current task will be removed.
- External users can now be selected as targets for "Email runZero users" channels.
- Users may now specify a "Notification email" address in their profile.
- This alternative email address is only used in place of the user's sign-in email address when the user is chosen as a recipient for an "Email runZero users" type alert channel. This address is `_not_` used for any account alerts, such as sign-in links or password reset emails.
- Merge behavior has been improved to reduce incorrect merges or duplicate asset records due to docking stations.

- Merge behavior has been improved to utilize hardware vendor data when available in order to reduce incorrect merges or duplicate asset records.
- An issue that caused some findings export API calls to fail has been resolved.
- An issue that caused some timestamps from Prisma Cloud assets to be incorrect has been resolved.
- An issue that prevented `software` keywords from working in asset inventory has been resolved.
- An issue that could cause software groups to be outdated in certain circumstances has been resolved.
- An issue that prevented saving the "Excludes" parameter in scan templates has been resolved.
- Fingerprint improvements.

4.0.250724.0

Jul 24, 2025

- Introducing Baseline Goals: Goals can now be scoped to specific inventory subsets, allowing customers to set goals against a subset of assets. For more information, see [documentation] (<https://help.runzero.com/docs/goal-tracking/>).
- The UX for selecting vulnerability checks has been updated and now defaults to detecting and reporting exposed web panels.
- Additional security check categories can now be selected from the scan configuration page.
- The scanner now detects and reports exposed web admin panels by default.
- An issue that resulted in incorrect query totals has been resolved.
- Improved fingerprinting of Microsoft SharePoint products and versions.
- Fingerprint improvements.

4.0.250721.0

Jul 21, 2025

- The software inventory now supports filtering by organization ID or name with the `organization:` search term, and by site ID or name with the `site:` search term.
- The vulnerability inventory now supports filtering by organization ID or name with the `organization:` search term.
- Customers importing asset data into Splunk can now specify a search filter of `\$checkpoint:ignore` to force Splunk to re-ingest all assets instead of just assets that were created/updated since the last sync.
- Assets discovered by the Tenable.io integration will now have `agentHealth` and `lastAgentHealthCheckTS` values shown when an agent is installed on an asset.
- An issue that caused vulnerabilities on an asset to repeatedly duplicate instances has been resolved.

- Normalization of assets of the type "Human-machine interface" has been improved.
- Fingerprint improvements.
- Performance improvements.
- Merge logic improvements.

4.0.250717.0

Jul 17, 2025

- The alert channel type "Email runZero users" has been made generally available, allowing users to configure channels that email chosen runZero users.
- A column displaying each site's last updated time has been added to the Sites list view.
- Merge logic has been improved to detect duplicate names across different domains and avoid incorrect merging.
- An issue that resulted in missing counts in the goal detail page has been resolved.
- An issue that resulted in inconsistent goal progress has been resolved.
- An issue that prevented goals from being updated if the current organization was not selected for the goal has been resolved.
- An issue that caused task parameters to not be copied accurately for recurring or copied NetBox tasks has been resolved.
- An issue that prevented assets from merging correctly based on hostnames in some circumstances has been resolved.
- Performance and fingerprint improvements.

4.0.250714.0

Jul 14, 2025

- Typographical errors in outlier count in the Asset Details page have been fixed.
- An issue that could result in Asset services not being correctly removed in certain limited cases has been resolved.
- An issue that caused the Microsoft Defender probe to filter out all vulnerabilities has been resolved.
- Performance and fingerprint improvements.

4.0.250711.0

Jul 11, 2025

- An issue that caused self-hosted instances using SMTP authentication method of "none" to incorrectly return an error stating "unsupported SMTP authentication method" has been resolved.

4.0.250710.0

Jul 10, 2025

- The Rapid Response dashboard widget now links to the correct search for software matches.
- An issue that caused metrics for queries returning zero results for a site to be saved with an incorrect total has been resolved.
- An issue that prevented refreshing authentication tokens for Palo Alto Networks' Prisma Cloud integration has been resolved.
- Scanner improvements.
- Fingerprint improvements.

4.0.250709.1

Jul 9, 2025

- An issue that could cause out-of-memory conditions for Palo Alto Networks' Prisma Cloud integration has been resolved.

4.0.250709.0

Jul 9, 2025

- An issue that could cause memory exhaustion to fail tasks instead of rescheduling them has been resolved.

4.0.250708.2

Jul 8, 2025

- An issue that caused a panic when processing Microsoft Defender data has been resolved.

4.0.250708.1

Jul 8, 2025

- An issue that caused scanner to panic has been resolved.

4.0.250708.0

Jul 8, 2025

- CrowdStrike data collection has been improved to be more memory efficient.
- Connectors now explicitly prefer merging devices into assets with a runZero source.
- Wiz reports are now compressed during upload from integration tasks.
- An issue that resulted in certain error messages in Microsoft SQL Server logs has been resolved.
- An issue that resulted in incorrect TLS fingerprinting of Microsoft SQL Server endpoints has been resolved.
- An issue that caused vulnerabilities detected via passive scanning to duplicate themselves during data processing has been resolved.
- An issue that caused a panic in the event of an unrecognized SMTP authentication method has been resolved.
- An issue that resulted in asset risk rank regression has been resolved.
- An issue that caused the "last calculated" timestamp on the dashboards page to be incorrect has been resolved.
- An issue that prevented Community Licensed users from navigating to the Organization Settings page has been resolved.
- An issue that caused the group assignment form to pre-select incorrect groups for selected users has been resolved.
- Scanner improvements.
- Fingerprint improvements.

4.0.250701.0

Jul 1, 2025

- Fingerprint improvements.

4.0.250630.0

Jun 30, 2025

- The "delete stale" integration option description for the AWS and Wiz integrations has been revised to clarify that it enables the deletion of all AWS or Wiz assets not seen by the currently running task.
- An issue that caused `last_seen` attributes to show up in event templates as a number instead of a date has been resolved.
- An issue that prevented community users from creating an organization when no organizations exists has been resolved.

- An issue that caused metrics analysis tasks to be repetitively scheduled in a loop has been resolved.
- An issue that caused slow queries to show up as errors in task logs has been resolved.

4.0.250627.1

Jun 27, 2025

- An issue that could result in some metrics tasks containing many "duplicate query in metric data" errors has been resolved.

4.0.250627.0

Jun 27, 2025

- An issue that prevented downloading the self-hosted version of runZero in the EU region has been resolved.
- The metrics calculation process has been improved.
- Discovery of embedded IP-to-serial devices has been improved.
- Fingerprint improvements.

4.0.250626.0

Jun 26, 2025

- Email Alerts now have improved support for JSON-formatted attachments.
- An issue loading dashboards with header widgets has been resolved.
- An issue preventing asset information from appearing in the RFC1918 report in some cases has been resolved.
- An issue causing Tenable.io integration tasks to incorrectly import INFO level vulnerabilities when configured to omit importing all vulnerabilities (i.e. "fingerprint-only") has been resolved.
- Phantom device detection has been improved.
- Fingerprint improvements.

4.0.250625.0

Jun 25, 2025

- An issue causing projects to not correctly analyze vulnerabilities, findings, and query match counts has been resolved.

4.0.250623.1

Jun 23, 2025

- An issue that could cause some scans to fail when scanning certain devices has been resolved.

4.0.250623.0

Jun 23, 2025

- An issue that sometimes prevented Microsoft Intune tasks from completing has been resolved.
- Issues that could result in certain printers experiencing issues during a runZero scan have been resolved.
- An issue that could cause tasks to hang at 99% or fail with error task lost to explorer restart in certain uncommon situations has been resolved.
- An issue that prevented stale vulnerabilities from being deleted in certain circumstances has been resolved.
- Fingerprint and performance improvements.

4.0.250622.0

Jun 22, 2025

- An issue that caused `agent-offline` events to be sent repeatedly every four hours has been resolved. Only one `agent-offline` event will be sent each time an explorer goes offline.

4.0.250620.0

Jun 20, 2025

- The NetBox integration now supports filtering by site names and CIDRs.
- First-page loading speed for software, software groups, vulnerability groups, and findings instances tables has been improved.
- An issue that caused some software records to be duplicated has been resolved.
- An issue that could cause metric and vulnerability tasks to error has been resolved.
- An issue that could prevent sending an invitation email to new users has been resolved.
- An issue that caused `agent-offline` events to be sent even though explorers reconnected has been resolved.
- An issue that caused scan task tags to be applied incorrectly in some cases has been resolved.
- Merge logic improvements.
- Fingerprint improvements.

4.0.250616.0

Jun 16, 2025

- The goal details page has been redesigned to provide more information on goal progress.
- The goal creation workflow UI has been redesigned to streamline the process of editing and creating goals.
- Users with an inherited or explicit role of User or above within the selected organization can now manage goals, consistent with the functionality in alert rules, channels and templates.
- Goals that were previously configured to be "global" have been updated to apply to all currently-existing organizations and will no longer be associated with new or future organizations unless explicitly configured as such, consistent with the functionality in alert rules, channels and templates.
- Task statistics now display total count of software and vulnerability records that were created.
- An issue that caused the display name for the default asset ownership type to be shown as a nil UUID has been fixed.
- Invalid device detection improvements.
- Fingerprint improvements.

4.0.250611.0

Jun 11, 2025

- Operating System End of Life (EOL) information for Microsoft Windows LTSC has been improved.
- Data retention can now be configured per site.
- Wiz integration tasks now have an option to delete stale Wiz assets after each sync.
- The Tenable.io integration has new separate options for disabling vulnerability import and disabling software import.
- Asset search has been updated to support filtering by missing `ownership_type` and missing `mac_countries`.
- When taking screenshots, Chrome is launched with the `--disable-breakpad` option.
- An issue with the Meraki integration that caused First Seen and Last Seen to be set incorrectly has been resolved.
- An issue that caused incorrect display of `ownership_type` information on dashboards has been resolved.
- Merge logic improvements.
- Fingerprint improvements.

4.0.250610.0

Jun 10, 2025

- An issue that could cause scans to stall when interrogating Microsoft SQL Server using TDS 8.0 has been resolved.
- An issue that could lead to out-of-memory conditions on self-hosted consoles with large connector tasks has been resolved.
- Fingerprint improvements.

4.0.250606.1

Jun 6, 2025

- An issue that could cause finding generation to fail for sites in certain situations has been resolved.
- Fingerprint improvements.

4.0.250606.0

Jun 6, 2025

- runZero scans can now check for default logins, you can find details in our [documentation] (<https://help.runzero.com/docs/em-vulnerability-management/#runzero--nuclei>).
- The Prisma integration has been updated to support importing assets from AWS.
- Vulnerability displays will no longer show empty information cards when no further information is available.
- Performance improvements for certificate inventory searches, particularly for subject, authority and SAN DNS names.
- Merge logic improvements.
- Fingerprint improvements.

4.0.250604.1

Jun 4, 2025

- Security: An issue that could allow MFA bypass during the password reset process has been resolved. This issue was identified internally and did not affect users who authenticate through SSO.
- An issue that prevented the `mac_countries` keyword from matching correctly has been resolved.

4.0.250604.0

Jun 4, 2025

- TOTP is now supported as a new MFA option in addition to existing WebAuthn and Passkey support.
- Scan tasks created via templates now carry over the `site:scope` keyword from the template.
- An issue that caused dashboard widgets to display incorrectly when no data is available has been resolved.
- An issue that prevented screenshots from being captured for some services has been resolved.
- Passive sampling tasks that are interrupted by active scans are no longer shown as failed.
- Link-local IPv6 and APIPA IPv4 addresses are no longer shown first in the addresses column of the inventory views.
- MAC addresses with the LAA bit set are no longer resolved to OUI vendors when the source is known to use random values.
- MAC addresses from virtual machine prefixes no longer assert a MAC Country field.
- Merge logic improvements.
- Fingerprint improvements.

4.0.250530.0

May 30, 2025

- The Vulnerabilities Inventory now includes a column for any associated Finding.
- The confirmation dialog for deleting an Explorer now indicates if tasks will be affected, with a link to view any affected tasks.
- The Asset Inventory now provides a `MAC Countries` column that lists which countries are associated with device MAC addresses.
- The Asset Attributes now include values for `mac.mfgCountries` and `mac.mfgAddresses`.
- The Asset Inventory now accepts searches by MAC Country using the syntax `mac.mfgCountries:US`.
- An issue that caused some integration data not to expire according to organization settings has been resolved.
- View-only users are no longer shown a `Share` action when this functionality is not available to them.
- Outdated browsers will now receive a warning during the sign-in process.
- Tag values are now fully UTF-8 safe and round-trip correctly via tasks.
- Fingerprint improvements.

4.0.250529.1

May 29, 2025

- The runZero console's content security policy header has been temporarily relaxed to resolve an issue where FireFox ESR would refuse to load icon images.
- A banner will now notify superusers when the SAML certificate being used for single sign-on (SSO) will expire soon.
- An issue that prevented PII attributes from being excluded when integrations were configured to run on an explorer has been resolved.
- Performance improvements.
- Fingerprint improvements.

4.0.250529.0

May 29, 2025

- Fingerprint improvements.

4.0.250527.0

May 27, 2025

- TLS certificates no longer used by any service are now automatically deleted from your certificate inventory.
- The design of the progress bar has been updated.
- An issue preventing tables on the risk management dashboard from sorting has been resolved.
- An issue that caused the GCP integration to log errors instead of warnings when some projects didn't have certain features enabled has been resolved.
- An issue causing invalid country flag display in the certificate inventory has been fixed.
- An issue that caused some Azure integrations to fail has been resolved.
- An issue where the error was not reported when scan results failed to upload has been fixed.
- Identification of progressive web applications has been improved.
- Phantom device detection improved.
- Merge logic improvements.
- Fingerprint improvements.

4.0.250524.0

May 24, 2025

- An issue that could cause CrowdStrike tasks to fail has been resolved.

4.0.250521.0

May 21, 2025

- An issue that was causing findings to not be filtered by asset when following a link from the assets details page has been resolved.
- An issue that was allowing CrowdStrike auth tokens to expire has been resolved.
- An issue that could prevent stale integration attributes from being cleaned up according to organization settings has been resolved.
- The Prisma integration has been updated to fix incorrect request methods and improve logging.
- Fingerprint improvements.

4.0.250516.0

May 16, 2025

- Normalization of the software version information from the CrowdStrike integration has been improved.
- Detection of web-interception mechanisms has been improved.
- An issue that could cause integration tasks to merge assets incorrectly in some cases has been resolved.
- An issue that was causing user-set asset criticality values to be overwritten as "Unset" has been resolved.
- An issue that caused Wiz integration tasks run on explorers to fail when importing a large number of assets has been resolved.
- An issue that prevented referencing `organization.name` in event templates was resolved.
- An issue that could cause alert rules to save the current organization in their scope unexpectedly when editing a rule has been resolved.
- Fingerprint improvements.

4.0.250514.0

May 14, 2025

- Custom integration scripts can now utilize gzip compression and decompression.
- An issue that caused undesired center justification in table columns has been resolved.
- An issue preventing Alerting Rules from being edited after creation has been resolved.

- An issue that could allow integration tasks to merge assets incorrectly in some cases has been resolved.
- An issue that caused intermittently inaccurate risk levels for "Top findings" in the Risk Management dashboard has been resolved.
- An issue that caused the names of risk levels to not be capitalized on the Risk Management Dashboard has been resolved.
- An issue that caused assets to be recreated when importing AWS assets with the `Automatically delete stale AWS assets` option enabled has been resolved.
- Fingerprint improvements.

4.0.250513.0

May 13, 2025

- User API endpoints now include information about default, assigned, and effective roles.
- The Microsoft 365 Defender integration now imports the `avMode` attribute and only sets the EDR name when `avMode` is Active.
- The Qualys integration now allows filtering assets by Network IDs.
- Custom integration scripts can now call crypto hashing functions including `sha256`, `sha512`, `sha1` and `md5`.
- Custom integration scripts can now export asset data to a json.gz file that can be imported into a runZero organization.
- Dashboards now include a footer showing the last time data used in the dashboard was updated.
- An issue that resulted in inaccurate information on the finding details page's Overview section when viewing "My organizations" has been resolved.
- An issue that prevented recalculating metrics in "My Organizations" mode has been resolved.
- An issue that prevented some Risk Management dashboard widgets from displaying results in "My Organizations" mode has been resolved.
- An issue that could cause passive-scanned assets to lose IP addresses when merging with integration assets has been resolved.
- An issue that prevented importing Asset CSVs containing spaces in owner values has been resolved.
- Fingerprint improvements.

4.0.250508.0

May 8, 2025

- The custom integration script editor now includes autocomplete hints for Starlark and runZero-provided libraries.

- Performance of the certificate inventory has been improved.
- An issue that could cause content updates to fail for some self-hosted customers has been resolved.
- An issue that could prevent integration data from updating correctly in some circumstances has been resolved.
- An issue that limited the number of applications collected from the SentinelOne integration has been resolved.
- Asset merging improvements.
- Fingerprint improvements.

4.0.250506.0

May 6, 2025

- An issue preventing the deletion and updating of Explorers from the details view Manage menu has been resolved.
- An issue preventing the finding details view from displaying related runZero blog references has been resolved.
- The vulnerability details view now includes links to runZero Rapid Response posts as well as related references.
- An issue that could cause the network bridges and asset route pathing reports to cut off parts of the graph has been resolved.
- An issue that could cause some integration attributes to be dropped when merging assets has been resolved.
- Fingerprint improvements.

4.0.250505.0

May 5, 2025

- Personally identifiable information (PII) or other attributes may now be excluded from data collection for some integrations. See our [excluding integration attributes] (<https://help.runzero.com/docs/integrations-inbound/#excluding-integration-attributes>) documentation for more details.
- The vulnerability collection performance of the SentinelOne integration has been improved.
- Custom integration scripts now consider a `None` return value as success.
- Custom integration scripts can now use limited `session`-like functionality for making HTTP requests.
- Custom integration scripts can now use base64 encoding and decoding functions.
- The npcap version is now listed on the Explorer details page when the Explorer is installed on Windows.

- The npcap installers have been updated to version 1.82.
- An issue that prevented errors from being returned when exporting data has been resolved.
- An issue that caused CVE overlay data (for example, KEV membership) to not be reflected accurately has been resolved.
- Fingerprint improvements.

4.0.250430.0

Apr 30, 2025

- The SentinelOne integration has been updated to improve performance.
- An issue that prevented exporting vulnerabilities has been resolved.
- Fingerprint improvements.

4.0.250428.0

Apr 28, 2025

- Two new keywords have been added to the scan configuration discovery and exclude scope fields: `site:scope` which expands to the default site scope, and `site:exclusions` which expands to the exclusions set in the site configuration.
- The Tenable Integration Task form has been updated.
- Event log performance was improved.
- Phantom device detection improvements.
- An issue that prevented persistence of inventory table preferences has been resolved.
- An issue that could prevent NetBox assets from merging on IP address has been resolved.
- An issue that could prevent alert channel details from loading in some situations has been resolved.
- An issue that prevented searching Integration attribute data using wildcards in certain cases has been resolved.
- Fingerprint improvements.

4.0.250422.0

Apr 22, 2025

- An issue that resulted in duplicate `assets-expired` events in the event log has been resolved.
- Fingerprint improvements.

4.0.250421.0

Apr 21, 2025

- An issue resulting in reporting an incorrect OS version for fingerprinting of CrowdStrike integration data has been resolved.
- An issue leading to duplicate asset icons and screenshots has been resolved.
- Fingerprint improvements.

4.0.250418.0

Apr 18, 2025

- The SentinelOne integration has been updated to support importing vulnerabilities.
- An issue causing the "Findings by category" header on the runZero Risk dashboard to render incorrectly has been resolved.
- An issue that caused vulnerabilities without categories to display details incorrectly has been resolved.
- An issue that caused the directory users and groups to not be linked for Google Workspace, Azure AD, and LDAP has been resolved.
- An issue that could cause an explorer to be marked as inactive after a reinstall has been resolved.
- User interface improvements.
- Fingerprint improvements.

4.0.250415.0

Apr 15, 2025

- CSV export of certificates was improved for better compatibility with spreadsheet software.
- The findings export now includes the fields `instance_count` and `risk_rank_value`. The fields `vulnerability_count` and `risk_score` have been removed, and the field `risk_rank` now shows the risk label.
- The NetBox integration no longer filters assets that are older than the Organization's stale asset threshold.
- Minor UX enhancement to the Certificate Details page.
- An issue causing the "Internet accessible assets" widget on the Risk Management dashboard to display an incorrect current count has been resolved.
- Fingerprint improvements.

4.0.250414.0

Apr 14, 2025

- Searching the asset inventory for software now supports less-than or greater-than software version queries. See the [Asset Inventory search keywords documentation] (<https://help.runzero.com/docs/search-query-assets/#assets-software>) for more information.
- Certificates inventory can now be searched by `last_seen`, `valid_from`, and `valid_until` keywords.
- The API endpoints for `/account/users` and `/account/users/{user_id}` now include the names and IDs of groups that users are members of.
- The inventory export APIs now support gzip Content-Encoding compression when requested via the Accept-Encoding header.
- An issue causing the "High risk findings" widget on the Risk Management dashboard to display an incorrect current count has been resolved.
- An issue causing the Queries list to display incorrect finding codes has been resolved.
- An issue causing duplicate `assets-expired` events to be written to the audit log has been resolved.
- An issue where servers were incorrectly identified as printers in rare cases has been resolved.
- Asset discovery improvements.
- Fingerprint improvements.

4.0.250410.1

Apr 10, 2025

- An issue that could cause importing of vulnerability information from Microsoft Defender to fail has been resolved.
- Fingerprint improvements.

4.0.250410.0

Apr 10, 2025

- The Microsoft 365 Defender integration now has task options to filter importing vulnerabilities by severity.
- The Microsoft 365 Defender integration can now optionally exclude importing software and vulnerabilities.
- The Rapid Response dashboard widget has been updated to clarify when assets are potentially impacted vs actually impacted.
- An issue that caused assets with no vulnerabilities or findings to be shown as Info risk instead of None has been resolved.

- An issue that prevented the Microsoft 365 Defender integration from pulling software without CPEs has been resolved.
- An issue that could cause some vulnerabilities to disappear after successive Microsoft 365 Defender tasks has been resolved.
- An issue that prevented importing certain assets from Wiz has been resolved.
- An issue that could cause integration attributes to be removed from assets has been resolved.
- In accordance with feedback from our annual security audit, a low-severity improvement has been made to the runZero Console's content security policy (CSP).
- Asset merging improvements.

4.0.250409.0

Apr 9, 2025

- The NetBox integration now handles virtual machines, interfaces, and clusters more consistently.
- The NetBox integration now uses fuzzy matching for OS and HW mappings.
- The alerts rules page data table now displays columns for channel and template.
- The alert rule details page now displays the channel and template attributes.
- An issue that could cause errors when gathering screenshots has been resolved.
- Asset merging improvements.
- Fingerprint improvements.

4.0.250407.0

Apr 7, 2025

- Performance of the Asset Details page has been improved.
- An issue that could cause tasks assigned to hosted explorers to be delayed has been resolved.

4.0.250405.0

Apr 5, 2025

- Fingerprint improvements.

4.0.250404.1

Apr 4, 2025

- An issue that could result in printers printing garbage output when their IPv6 addresses are scanned has been resolved.

4.0.250404.0

Apr 4, 2025

- The Microsoft 365 Defender integration has been updated to support pulling software and vulnerabilities.
- New public APIs for findings and certificates inventory are now available. See the [API documentation] (<https://app.swaggerhub.com/apis/runZero/runZero/>) for more information.
- An issue that failed to detect and report encrypted protocols running on non-standard ports has been resolved.
- An issue that caused a page reload when navigating to a Certificate Details page has been resolved.
- An issue that prevented searching the Vulnerability Inventory by Asset for CVEs has been resolved.
- Fingerprint improvements.

4.0.250402.0

Apr 2, 2025

- The NetBox integration now supports importing virtual machines and asset criticality, along with other fixes.
- An issue preventing an icon from showing on the Certificate Details page was resolved.
- Fingerprint improvements.

4.0.250401.0

Apr 1, 2025

- CSRF protection was improved.
- User Public API endpoints now include a field, `mfa_enabled`, indicating if the user has enabled and is required to use MFA to log in.
- An issue preventing the scanner from fingerprinting services on sensitive ports has been resolved.
- An issue that caused some browsers to freeze when viewing the Risk Management dashboard has been resolved.
- Fingerprint improvements.

4.0.250331.0

Mar 31, 2025

- Performance of the Risk Management dashboard has been improved.
- An issue that caused the VMware ESXi OS version information to be truncated on some assets has been resolved.

4.0.250330.0

Mar 30, 2025

- An issue that could result in excessive logging with misconfigured Windows adapters has been resolved.

4.0.250329.0

Mar 29, 2025

- An issue that prevented services from populating in certain circumstances has been resolved.

4.0.250328.0

Mar 28, 2025

- Users can now create custom widgets for their dashboards with text of their choosing, rendered as a subset of Markdown/CommonMark.
- The collection performance of the Google Workspace integration has been improved.
- Vulnerability details are now displayed in their own page with a linkable URL.
- An issue that could incorrectly remove integration attributes has been resolved.
- An issue that incorrectly tracked a VMware ESXi asset's full name attribute has been resolved.
- An issue that caused the findings page to take a long time to load has been resolved.
- An issue that could cause console errors when searching for certificates using numeric values has been resolved.
- An issue that resulted in errors when searching the directory users and groups by organization ID has been resolved.
- An issue that prevented Info-level findings from displaying in the Findings overview dashboard widget has been resolved.
- An issue that caused incorrect "What's Changed" values on the Risk Management dashboard has been resolved.
- Asset merging improvements.

- Fingerprint improvements.

4.0.250325.0

Mar 25, 2025

- The code for detecting self-signed certificates was improved for better accuracy.
- The collection performance of the Google Workspace integration has been improved.
- An issue that resulted in duplicate findings listed for a single organization has been resolved.
- Fingerprint improvements.

4.0.250324.1

Mar 24, 2025

- An issue resulting reporting an incorrect source for fingerprinting of CrowdStrike integration data has been resolved.
- An issue resulting in scans triggering printer output has been resolved.
- Fingerprint improvements.

4.0.250324.0

Mar 24, 2025

- Introducing Risk Findings, a new feature that provides a comprehensive view of risk. Findings group vulnerabilities, misconfigurations and best practices into a curated list of actionable items, allowing you to prioritize and remediate the most critical risk in your environment. To learn more, see our [Risk Findings documentation](<https://help.runzero.com/docs/understanding-findings/>).
- Introducing the Risk Management dashboard, a new dashboard showing an overview of risk in your environment.
- Introducing Certificates Inventory, a new inventory type that allows you to quickly view and search all of the TLS and SSH certificates in your environment. To learn more, see our [Certificate Inventory documentation](<https://help.runzero.com/docs/certificates-inventory/>).
- The "None" Risk Rank has been renamed to "Info".
- SentinelOne integration now processes hostnames with spaces correctly.
- Custom integrations now process hostnames with spaces correctly. Multiple hostnames must be separated by a tab character.
- An issue that resulted in duplicate records for some vulnerabilities has been resolved.

- Fingerprint improvements.

4.0.250317.0

Mar 17, 2025

- A dashboard list page has been added, showing all dashboards the current user has access to.
- Added support for passing an optional `timeout=<seconds>` parameter to `http.get` and `http.post` requests in custom integration scripts.
- Added support for using `HEAD`, `PATCH`, `PUT`, and `DELETE` HTTP methods in custom integration scripts.
- Added support for searching Meraki `firstSeen` and `lastSeen` attributes as timestamps.
- Added new `snmp.interfaceAddrsMap`, `snmp.interfaceAliasesMap`, `snmp.interfaceNamesMap`, and `snmp.interfaceMacMap` attributes containing SNMP network data indexed by interface index.
- Users will now be shown a helpful message if they cannot login via SSO due to an expired SAML certificate.
- Dashboard widgets now show the date range covered in the widget.
- An issue that caused Rapid7 InsightVM vulnerabilities to not sync the Exploitable flag correctly has been resolved.
- Fingerprint improvements.

4.0.250307.0

Mar 7, 2025

- Several minor graphical issues in the user interface have been resolved.
- An issue preventing filling in additional comments in the query builder feedback menu has been resolved.
- The AWS integration now imports tags for RDS instances.
- The Nessus integration will now continue processing data from other scans, even if an error occurs while ingesting data from one scan.
- Performance improvements.
- Fingerprint improvements.

4.0.250305.0

Mar 5, 2025

- The calculation of the last seen value for Active Directory computers has been improved.

- An issue that caused dashboard widgets to align incorrectly at certain browser sizes has been resolved.
- An issue preventing sorting team user tables by ID has been resolved.
- Fingerprint improvements.

4.0.250303.1

Mar 3, 2025

- Performance improvements for KEV-based vulnerability queries.

4.0.250303.0

Mar 3, 2025

- An issue that prevented self-hosted deployments from the EU SaaS console from installing has been resolved.
- Fingerprint improvements.

4.0.250228.0

Feb 28, 2025

- Merge logic for the Tanium integration when multiple environments are present has been improved.
- IP address collection from the Tanium integration has been improved.
- An issue that resulted in most users on the team datagrid showing as "pending" status has been resolved.
- An issue with host name expansion of scan targets has been resolved.
- Fingerprint improvements.

4.0.250226.0

Feb 26, 2025

- The API now supports setting organization vulnerability expiration configuration parameters.
- An issue that could cause some stale data expiration settings set via the API not to take effect has been resolved.
- HTTP actions in custom integration scripts no longer have a timeout.
- Fingerprint improvements.

4.0.250221.0

Feb 21, 2025

- Performance improvements.
- Fingerprint improvements.

4.0.250219.1

Feb 19, 2025

- An issue that could prevent metrics and query counts from updating has been resolved.
- Fingerprint improvements.

4.0.250219.0

Feb 19, 2025

- runZero scans now record the last time that they detected an asset in the asset attributes.
- Performance improvements.
- Fingerprint improvements.

4.0.250214.0

Feb 14, 2025

- Fingerprint improvements.

4.0.250213.1

Feb 13, 2025

- Self-hosted installations configured with SSO-only logins now automatically redirect to the IdP.

4.0.250213.0

Feb 13, 2025

- An issue in hostname collection that could result in invalid asset hostnames and merges has been resolved.
- An issue preventing drill-down from dashboards' most- and least-seen charts has been resolved.
- The organization API now allows the stale integration attribute setting for an organization to be modified.
- Matching assets from the SentinelOne integration has been improved.

- The `type:` asset search keyword now performs a fuzzy search by default, similar to other search keywords.
- Log events for tasks starting and failing are now labeled with the task name.
- The default HTTP timeout for custom integration script requests has been extended to 5 minutes.
- Performance improvements.
- Asset merging improvements.
- Fingerprint improvements.

4.0.250209.0

Feb 9, 2025

- Performance improvements.
- Fingerprint improvements.

4.0.250208.0

Feb 8, 2025

- Performance improvements.

4.0.250207.3

Feb 7, 2025

- Performance improvements.

4.0.250207.2

Feb 7, 2025

- An issue that could result in an error being displayed when creating a new project for some editions of runZero has been resolved.
- An issue that could cause a metrics recalculation task to issue spurious warnings has been resolved.
- Fingerprint improvements.

4.0.250207.0

Feb 7, 2025

- Organizations now support setting thresholds to automatically expire stale integration and vulnerability data.

- Merge logic for the Tenable Security Center integration has been improved.
- Merge logic for Windows assets with multiple interfaces has been improved.
- The display of errors for query widgets on the dashboard has been improved.
- Filtering of invalid data from the Qualys integration has been improved.
- All available templates are now shown on the scan templates page.
- The APIs used to fetch CrowdStrike applications have been updated to improve collection performance.
- An issue that caused stale protocols to remain on services has been resolved.
- An issue that prevented services from different vhosts on the same IP/port/protocol combination from being displayed on the asset details page has been resolved.
- An issue that prevented seeing the full asset comment in the asset datagrid has been resolved.
- An issue that could cause invalid Steam protocol probe responses has been resolved.
- An issue that could cause higher-than-expected asset risk for certain SSL-related vulnerabilities has been resolved.
- Fingerprint improvements.

4.0.250203.1

Feb 3, 2025

- An issue that could cause scan processing to fail with an error has been fixed.
- An issue that prevented the retrieval of Tanium vulnerability data after the paging data limit is exceeded has been resolved.
- Fingerprint improvements.

4.0.250203.0

Feb 3, 2025

- An issue that caused missing hostname/IP combinations for some assets on the Switch Topology report has been resolved.
- An issue that caused runZero to report SMB v2 as available on certain Samba configurations has been resolved.
- An issue that caused hosted zone tasks to get stuck in a Scheduled state has been resolved.
- An issue that prevented running scans using a hosted zone for some community users has been resolved.
- An issue that sometimes caused task details to show a negative task duration has been resolved.

- Fingerprint improvements.

4.0.250130.1

Jan 30, 2025

- An issue preventing specific organization administrators from modifying asset tags has been resolved.
- An issue that prevented using the quick-bookmark buttons on the reports pages has been resolved.
- The quick-bookmark buttons on the reports pages no longer indicate whether or not they're already bookmarked.
- Merge avoidance logic for certain integration combinations has been improved.
- Asset merging improvements.

4.0.250130.0

Jan 30, 2025

- An issue that caused dashboard duplication and creation to work incorrectly has been resolved.
- An issue preventing filtering in the dashboard share menu has been resolved.
- Fingerprint improvements.

4.0.250129.0

Jan 29, 2025

- Users can now create multiple dashboards, share them to organizations in which they have User privileges or higher, and set a preferred dashboard in their profile settings. Any personal or runZero managed dashboard can be selected as a preferred dashboard.
- Organization administrators can now set a default dashboard on a per-organization basis. Any dashboard shared to the organization or any runZero managed dashboard can be selected as a default dashboard.
- An issue that prevented query links on dashboards from respecting the "Search live assets" attribute has been resolved.
- An issue that prevented the change report from being visible on the Task Details page has been resolved.
- An issue preventing the scanner from collecting arp cache data from Palo Alto Networks devices using self-signed certificates has been resolved.
- Merge logic for assets observed via both Wiz and AWS has been improved.

- Fingerprint improvements.

4.0.250127.0

Jan 27, 2025

- Self-hosted instances now check for updated content and queries every 5 minutes in online mode.
- Recurring tasks can now be set to a multiple of minutes.
- An issue that caused runZero to report SMB v1 as available on certain Samba configurations has been resolved.
- An issue that prevented Explorer-run InsightVM tasks from running with certain self-signed certificates has been resolved.
- An issue that prevented some integrations from working when a non-standard port number was specified has been resolved.
- An issue that prevented runZero from connecting to InsightVM installations that use a TLS certificate with a negative serial number has been resolved.
- An issue that prevented certain CrowdStrike vulnerabilities from being associated with an asset has been resolved.
- Fingerprint improvements.

4.0.250124.0

Jan 24, 2025

- If site subnets have been defined, newly created scans will target the dynamic "defaults" scope.
- The custom integration script editor is now resizable.
- An issue that prevented connecting to some versions of InsightVM has been resolved.
- An issue that was causing broken links in the Switch Topology Report has been resolved.
- Merge avoidance logic for certain RDP related corner cases has been improved.
- Fingerprint improvements.

4.0.250123.0

Jan 23, 2025

- An issue preventing the Meraki integration from retrying requests has been resolved.
- An issue that would cause an asset's extra addresses to be missing has been resolved.
- Operating System End of Life (EoL) coverage and accuracy has been improved.

- Asset merging improvements.
- Fingerprint improvements.

4.0.250122.0

Jan 22, 2025

- The iSCSI protocol is now supported for asset discovery.
- Reporting of Meraki integration errors has been improved.
- An issue that caused some dashboard widgets to not update properly has been resolved.
- An issue that prevented custom dashboard widgets displaying system queries to non-admin users has been resolved.
- An issue that prevented Palo Alto Networks credentials from appearing in the scan configuration has been resolved.
- Fingerprint improvements.
- This release also includes the following fixes for low-severity findings from our annual third-party source code audit and security assessment:
- New password hashes, login tokens, reset password tokens, and new account invite tokens are now stored using the argon2id one-way hashing algorithm. Prior to this release, hashes were generated using the bcrypt hashing algorithm.

4.0.250120.0

Jan 20, 2025

- An issue that could result in inaccurate metrics display has been resolved.
- Asset merging improvements.
- Fingerprint improvements.

4.0.250117.0

Jan 17, 2025

- Operating System End of Life (EoL) coverage and accuracy has been improved.
- Fingerprint improvements.

4.0.250116.0

Jan 16, 2025

- Layer 2 topology calculations have been improved.
- The task details page has been improved.
- The asset details page now includes the date the asset record was created in the runZero database. This information is also available via a new optional column in the asset inventory.
- Intune integration performance has been improved.
- Operating System End of Life (EoL) information is now available for Linux Mint.
- Credentials are now allowed to be re-used across multiple recurring tasks. runZero still recommends limiting credentials to a single recurring tasks in most situations to avoid duplicate asset ingestion.
- An issue that could result in inaccurate query metric representation on the dashboard has been resolved.
- An issue that prevented the Meraki integration from paginating Meraki resources has been resolved.
- An issue that caused the `NO_PROXY` environment variable to be ignored on self-hosted consoles has been resolved.
- Fingerprint improvements.
- This release also includes the following fixes for low-severity findings from our annual third-party source code audit and security assessment:
- An issue that allowed Explorer information to be listed across organizations within the same tenant if the requester had knowledge of the Explorer's ID has been resolved.

4.0.250113.0

Jan 13, 2025

- Vulnerability reporting from the Inside Out Attack Surface Management feature is more accurate and adjusted for severity based on the type of exposure.
- Fingerprinting devices via the Matter IoT protocol is now supported.
- The Service Location Protocol (SLP) is now supported for device probing.
- The Tenable integration now records MAC addresses even if they don't have an associated IP address.
- Unmapped MACs are now grouped by interface in the Layer2 information section of the asset details page.
- A flatten_json module with a flatten method can be used when authoring Custom Integration Scripts.
- An issue that prevented organization roles from being saved when creating or updating a group via the API has been resolved.
- An issue that prevented ingesting some assets from Tanium has been resolved.
- An issue that impacted the ability to retry timed-out requests in some connectors has been resolved.

- An issue that could cause a task to repeatedly retry when the task data was improperly formatted has been resolved.
- An issue that prevented setting some asset values in custom integration scripts has been resolved.
- An issue that prevented selecting 'no parent' when editing a project with a consulting license has been resolved.
- Fingerprint improvements.

4.0.250106.0

Jan 6, 2025

- Custom Integration Scripts can now run directly on runZero Explorers and be triggered by runZero tasks. To learn more, see our [custom integration scripts documentation] (<https://help.runzero.com/docs/custom-integration-scripts/>).
- Vulnerability records are now created for potentially exposed internal assets (Inside Out Attack Surface Management) and misuse of shared encryption keys.
- AWS integration task configuration forms have a new look and feel.
- An issue that could result in a scanning deadlock when using maximum scan durations has been resolved.
- Fingerprint improvements.

4.0.241223.0

Dec 23, 2024

- An issue that would cause devices discovered by the Tenable integration to not properly merge has been resolved.
- An issue that caused the list of Explorers to not be sorted correctly when configuring alert rules has been resolved.
- Fingerprint improvements.

4.0.241219.2

Dec 19, 2024

- The runZero CLI is now available for download for all license tiers. Specific functionality is still based on your license and entitlements.
- Integrations run through an Explorer now use proxy settings in all cases.
- Explorer upgrades now strictly validate versions and update URLs.

- Added export APIs for export tasks.
- Scan tasks created via console now support an optional scan duration limit.
- The Getting Started Guide has been revamped with additional content.
- Intune logging has been improved.
- Custom multi-query widgets' data sources list can now be reordered with drag and drop.
- An issue preventing users from changing their name or email when SSO is required but the user is not enrolled in SSO has been resolved.
- An issue that could cause the alert rule inventory query preview button to unexpectedly URL-encode search strings has been resolved.
- Fingerprint improvements.

4.0.241217.0

Dec 17, 2024

- Merge avoidance logic for integration data has been improved.
- An issue that would cause all software for the entire organization to be displayed in the software section of the asset screen has been fixed.
- An issue that caused the "Copy as a new scan template" button to be displayed for tasks that the action is not available for has been resolved.
- An issue where stale IP addresses resolved through DNS were not periodically removed was resolved.
- Fingerprint improvements.

4.0.241213.0

Dec 13, 2024

- An issue that would cause exporting software without a filter to fail has been fixed.
- An issue that caused an application error when uploading an invalid IDP metadata.xml in SSO Settings has been fixed.
- Fingerprint improvements.

4.0.241212.0

Dec 12, 2024

- Alert rules for inventory query event types now include a button to preview the configured query in the inventory.
- The loading overlay on the data tables throughout the product has been improved for more clarity.

- An issue that prevented the delivery of scan alerts through Slack has been resolved.
- An issue where the alert error tooltip message wasn't being rendered has been resolved.
- An issue preventing the discovery scope field on the task inspection card from appearing has been resolved.
- An issue causing the task inspection card to sometimes take longer than expected to load has been resolved.
- An issue that prevented Wiz connectors from working with Wiz API credentials scoped to specific projects has been resolved.
- Fingerprint improvements.

4.0.241210.0

Dec 10, 2024

- An issue that caused some event rules, channels and templates to be hidden has been resolved.
- An issue that prevented alert rules from saving the query condition has been resolved.
- An issue that prevented event templates, channels, and rules from being removed when an organization is removed has been resolved.
- An issue that prevented some form "Back" buttons from functioning correctly has been resolved.
- Fingerprint improvements.

4.0.241209.1

Dec 9, 2024

- The navigation menus have been redesigned for ease of use. User settings and sign out buttons are now located in the top right of the application.
- Alerts, rules, channels and templates are now scoped to one or more organizations allowing organization-level users to edit alert rules. See our [alerts documentation] (<https://help.runzero.com/docs/managing-alerts/>) for more information.
- Asset merge avoidance logic for custom integration data has been improved.
- An issue in merge logic for Tenable Security Center data has been resolved.
- Fingerprint improvements.

4.0.241206.0

Dec 6, 2024

- An issue that prevented some forms from functioning correctly has been resolved.

4.0.241205.1

Dec 5, 2024

- An issue that prevented some dashboard drill down pages from displaying has been resolved.

4.0.241205.0

Dec 5, 2024

- Scans now probe Palo Alto Networks firewalls for ARP cache information.
- An issue that allowed configuring the Wiz integration with no API URL has been resolved.
- An issue in hostname collection that could result in invalid asset hostnames and mergers has been resolved.
- Our annual third-party source code audit and security assessment is in progress. This release includes fixes for the following issues:
 - Content-Security-Policy headers have been made more strict.
 - An XSS vulnerability was identified in the Asset Ownership form.
 - A few minor weaknesses were identified in the password reset flow.

4.0.241203.0

Dec 3, 2024

- Assets discovered via CIP backplane enumeration are now better displayed.
- Scan discovery scope has been added to the task inspection card on the task overview page.
- Improved discoverability of Fortinet appliances using the FortiGate to FortiManager (FGFM) protocol.
- Detection of bulk responses from Fortinet network filtering and interception products has been improved.
- An issue which delayed sample tasks from starting once a scan completed has been fixed.
- An issue that prevented exporting asset attribute reports for foreign attributes has been fixed.
- An issue that caused Tenable tasks to occasionally ignore their filter settings has been resolved.
- An issue that could cause inconsistent task inspection card state on the task overview page has been resolved.
- An issue that could cause Explorers with identical host IDs to replace Explorers in another organization has been resolved.

- An issue that could cause invalid events to be shown on the events page has been resolved.
- An issue resulting in assets retaining invalid serial numbers from filtered services has been resolved.
- Fingerprint improvements.

4.0.241125.0

Nov 25, 2024

- Fingerprint improvements.

4.0.241123.0

Nov 23, 2024

- An issue that could result in excessive error reporting under low memory conditions has been resolved.
- Fingerprint improvements.

4.0.241122.0

Nov 22, 2024

- Assets with more than 128 ports open are no longer excluded from asset lists.
- The load time of dashboards when assets have many tags has been improved.
- The speed of loading the explorers list has been improved.
- An issue that would cause tasks to report spurious download errors has been corrected.
- An issue that could prevent rDNS names from being assigned as an asset name has been resolved.
- Fingerprint improvements.

4.0.241120.0

Nov 20, 2024

- Tenable merge rules have been refined to reduce duplicate assets.
- Connection-related error messages for the Active Directory (LDAP) integration have been improved.
- Fingerprint improvements.

4.0.241118.0

Nov 18, 2024

- Intune data collection speed has been improved.

- Qualys integration logging has been improved.
- An issue occasionally causing unprocessed sample tasks to overload the task queue has been fixed.
- Fingerprint improvements.

4.0.241114.0

Nov 14, 2024

- runZero now supports the Hikvision SADP protocol.
- Microsoft Azure and Intune connections now complete faster.
- Recent tasks can now be easily reprocessed to take advantage of updates to asset merge logic.
- An issue that could prevent Shodan devices from being merged into existing assets has been resolved.
- An issue that could cause explorers to unregister due to operational issues with runZero's platform has been resolved.
- An issue that caused `api-export` events to be logged as `api-organization` events has been fixed. The `api-export` events generated between versions 4.0.241022.0 and 4.0.241114.0 were logged as `api-organization` events.
- Fingerprint improvements.

4.0.241109.0

Nov 9, 2024

- An issue that could prevent Qualys jobs from completing in some cases has been resolved.
- Fingerprint improvements.

4.0.241106.0

Nov 6, 2024

- An issue that could cause Assets to have duplicate foreign data attribute sets has been resolved.
- The CLI scanner `--output-raw` option now produces gzipped output and disables output directory creation.
- The CLI scanner now supports the `link4` and `link6` scan targets for local network ranges.
- The CLI scanner help output now omits redundant host-ping/subnet-ping options.
- Fingerprint improvements.

4.0.241101.2

Nov 1, 2024

- An issue that could prevent enumeration of buggy TLS ECDH implementations has been resolved.
- The scanner now reports SNMP interface aliases in addition to names.

4.0.241101.1

Nov 1, 2024

- An issue that would prevent assets scanned over certain VPNs from merging correctly has been resolved.

4.0.241101.0

Nov 1, 2024

- The event details modal now displays links to source and target objects.
- The events data grid page now includes an Organization column.
- The Tanium integration now retrieves endpoints' Custom Tags when available.
- The switch topology export options have been expanded to include the entire graph.
- IP address ingestion via the CrowdStrike integration has been improved.
- The metrics recalculation actions found on the task overview and dashboard have been improved.
- Fingerprint improvements.

4.0.241029.0

Oct 29, 2024

- An issue that could cause the GCP integration to attempt to retrieve resources from deleted projects has been resolved.
- Fingerprinting of Comtrol IO-Link devices is now supported.
- The FortiGate to FortiManager (FGFM) protocol is now supported for asset discovery.
- Fingerprint improvements.

4.0.241025.0

Oct 25, 2024

- Enhanced the task details page view for recurring tasks.
- Information about whether individual users are required to use SSO is now displayed more clearly.

- An issue involving processing of UTF-8 BOM sequences in CSV files has been resolved.
- An issue causing broken links in the Switch Topology report has been resolved.
- An issue preventing access to the standard query library from the EU region has been resolved.
- An issue that could cause assets with stale service data to be fingerprinted incorrectly has been resolved.
- Fingerprint improvements.

4.0.241023.0

Oct 23, 2024

- Backplane enumeration of OT devices using CIP over EtherNet/IP is now supported.
- CSV exports can now include Unicode characters.
- An issue that caused an error after editing organization settings has been fixed.
- An issue that prevented "SSO Required" login restrictions from being enforced on existing user accounts has been resolved.

4.0.241022.0

Oct 22, 2024

- runZero now supports the creation of multiple export tokens.
- Newly created export tokens now show creation information and allow setting a description.
- Windows binaries are now exclusively signed with our runZero code signing certificate. The old Rumble code signing certificate has been retired.
- The service inventory view "Summary" column has been renamed "Service response" to better represent the data.
- An issue involving use of asset tags in alert templates has been fixed.
- An issue in parsing tags set to have no value has been fixed.
- An issue causing tags to get dropped from event rule data has been fixed.
- An issue in formatting tag changes in the event log has been fixed.
- An issue that prevented very long Explorer names from being fully visible on the Explorer details page has been resolved.
- An issue impacting fingerprinting when an asset had certain integration sources has been resolved.
- An issue in asset hostname collection from integration data has been resolved.
- An issue causing Windows Subsystem for Linux (WSL) guests observed in MS 365 Defender data to be merged with their hosts has been resolved.

- Merge avoidance logic for integration data has been improved.
- Asset merging improvements.
- Fingerprint improvements.

4.0.241016.0

Oct 16, 2024

- An issue causing current organization to be inconsistent when opening links in the console has been resolved.
- An issue causing the task card on the Explorer details page to show tasks from other Explorers when multiple Explorers with the same name are present in the organization has been resolved.
- An issue involving email invites from users with punctuation characters in their names was fixed.
- An issue that prevented exporting vulnerabilities from the UI when filtering by site has been resolved.
- An issue that prevented viewing recurring task details when no subtasks existed has been resolved.
- Fingerprint improvements.

4.0.241015.0

Oct 15, 2024

- runZero now integrates with NetBox.
- Added new duration and average duration columns to the Completed and Recurring task list pages. This allows viewing and sorting tasks by duration.
- Added a quick link to login with SSO for self-hosted installs.
- The dashboard menu now includes an option to recalculate dashboard metrics.
- Individual assets can now be refingerprinted using the latest fingerprint database directly from the asset details page.
- An issue preventing users from being redirected to a newly-created organization or project after creating one has been resolved.
- An issue preventing the "Switch to" button in the organization table from working has been resolved.
- An issue causing invalid asset links in the organization comparison report has been resolved.
- Fingerprint improvements.

4.0.241010.0

Oct 10, 2024

- An issue that prevented logging in via SSO when a first name or last name was missing has been resolved.
- An issue that allowed clicking on disabled project settings has been resolved.
- Fingerprint improvements.

4.0.241009.0

Oct 9, 2024

- The active console region is now displayed on the login page.
- Improved memory efficiency when exporting assets to Splunk via the runZero Splunk Add-on (requires v3.1.0 or greater of the add-on).
- An issue preventing querying for assets with multiple CVE matches from the vulnerability inventory page has been resolved.
- Explorers older than v4.0 have been phased out and can no longer connect to the console.
- Fingerprint improvements.

4.0.241003.0

Oct 3, 2024

- An issue resulting in incorrect Software Inventory population in certain limited situations has been resolved.
- An issue resulting in incorrect asset Type assertions in limited situations has been resolved.
- Fingerprinting of Apple macOS from CrowdStrike data has been improved.
- Asset merging improvements.
- Fingerprint improvements.

4.0.241001.0

Oct 1, 2024

- An issue that prevented NOT and OR operators in queries on the site/organization report has been resolved.
- An issue resulting in incorrect Operating System End of Life (EoL) values for Red Hat Enterprise Linux has been resolved.
- An issue that could require some users to enter their email address twice on login has been resolved.
- A new search keyword `first_seen_task` allows searching for assets first seen by a particular task.

- The serial number coverage in the asset CSV export was expanded to include additional protocols and devices.
- Fingerprint improvements.

4.0.240927.0

Sep 27, 2024

- Explorer TLS settings are now configurable via `TLS_VERSION_MIN` and `TLS_VERSION_MAX` parameters.
- Software and Vulnerability inventory queries can now be saved to the query library.
- Vulnerability groups now support searching by site ID or site name.
- An issue that prevented the task status icon and associated error/warning logs from updating when selecting different tasks has been resolved.
- Asset merging improvements.
- Fingerprint improvements.

4.0.240926.0

Sep 26, 2024

- runZero scans now include the CUPS (IPP) Browser protocol as a new probe on UDP/631.
- An issue that could lead to incorrect matching between Tenable sources has been resolved.
- Any error messages from the SSO process are now prominently displayed.
- Fingerprint improvements.

4.0.240925.0

Sep 25, 2024

- An issue resulting in malformed query when pivoting from grouped vulnerabilities with multiple CVEs has been resolved.
- An issue that resulted in sending invalid JSON in some events that reference organization.id or site.id has been resolved.
- An issue that could cause Wiz connections to report that results were not found even when using correct service account credentials has been resolved.
- Fingerprint improvements.

4.0.240924.1

Sep 24, 2024

- An issue that could lead to an error message in scan logs from short rpcbind replies has been resolved.
- The Site ID and Organization ID fields in event messages are now formatted as strings and not byte arrays.

4.0.240924.0

Sep 24, 2024

- An issue causing single-sign-on to fail with the error "Email address ... is already in use" has been resolved.
- An issue preventing the OS CPE value from being displayed in the Asset inventory has been resolved.
- The Oracle Solaris Service Tag protocol is now supported for asset discovery.
- Fingerprint improvements.

4.0.240923.0

Sep 23, 2024

- Introduced a new login screen.
- runZero now integrates with Tanium API Gateway.
- The API now supports the bulk removal of a custom integration source from a list of assets.
- Begin signing Windows binaries with our new runZero, Inc. code signing certificate. We are currently dual signing with the old and new certificates.
- The speed of navigating to subsequent pages in inventory tables has been improved.
- Improved performance of the Wiz integration.
- Minor UI enhancement to better provide event rule errors via tooltip within table.
- An issue preventing event channels from displaying in the Channels list if the user who created them no longer exists has been resolved.
- Upgraded npcap to v1.80.
- An issue that could prevent Wiz vulnerability data from being processed has been resolved.
- An issue in UUID handling in event rules was fixed.
- An issue that prevented importing some Wiz assets that were created more than 180 days ago has been resolved.
- An issue that resulted in incorrect directory user and group membership counts has been resolved.

- The Wiz integration now properly syncs when the Wiz Service Account credential is limited to specific projects.
- Fingerprint improvements.

4.0.240921.0

Sep 21, 2024

- Asset merging improvements.
- Fingerprint improvements.

4.0.240919.0

Sep 19, 2024

- Asset merging improvements.
- Fingerprint improvements.

4.0.240918.0

Sep 18, 2024

- A race condition that could lead to incorrect asset matching has been resolved.
- An issue that could lead to integration attributes not being updated has been resolved.
- An issue that prevented all-organization admins from managing alerts has been resolved.
- The PCWORX protocol is now supported.
- Fingerprint improvements.

4.0.240917.2

Sep 17, 2024

- An issue that could cause CrowdStrike tasks to fail and retry has been fixed.
- Fingerprint improvements.

4.0.240917.1

Sep 17, 2024

- runZero now integrates with Microsoft Endpoint Configuration Manager (MECM).
- The self-hosted platform now supports ARM64 (aarch64) on Linux.

- Imported scan data now reports the correct scan times in the task view.
- CrowdStrike device last seen fields can now be queried as relative timestamps.
- The performance of the CrowdStrike integration has been improved.
- An issue that could prevent self-hosted from installing on newer versions of Alma Linux has been resolved.
- An issue in the display of the access summary of some users has been resolved.
- An issue that prevented querying directory user and group attributes with relative time queries has been fixed.
- Fingerprint improvements.

4.0.240910.2

Sep 10, 2024

- An issue that could prevent login link authentication from working has been resolved.
- An issue that left temporary files in Explorer temp directories has been resolved.
- An issue that prevented My Orgs from working with a large number of organizations has been resolved.

4.0.240909.0

Sep 9, 2024

- The login process has been redesigned for a smoother user experience.
- An issue that could cause confusing navigation behavior when viewing different organizations in separate browser tabs has been resolved.
- Asset merging improvements.
- Fingerprint improvements.

4.0.240907.0

Sep 7, 2024

- Asset correlation has been improved for Meraki, ChromeOS, and SentinelOne sources.
- Fingerprint improvements.

4.0.240904.1

Sep 4, 2024

- An issue that could result in tasks that import software records failing has been fixed.

4.0.240904.0

Sep 4, 2024

- An issue that could cause daily recurring tasks to incorrectly be scheduled after modification has been resolved.
- Assets can now be identified using the Automatic Tank Gauge protocol.
- Fingerprinting of Dell iDRAC devices has been improved.
- The RFC1918 scan options are now available from the RFC 1918 reports page.
- Asset merging logic has been improved.
- Performance of foreign data integrations has been improved.
- Fingerprint improvements.

4.0.240902.0

Sep 2, 2024

- An issue that could lead to incorrect correlation due to hardcoded device-side MAC addresses has been resolved.
- Bogus network responses for PPTP and FTP services are now ignored.
- Fingerprint improvements.

4.0.240829.0

Aug 29, 2024

- An issue with certain versions of Chrome that could cause the creation of large numbers of temporary files has been fixed.
- An issue that could result in setting an incorrect asset Type based on integration data has been resolved.
- An issue that could cause recurring tasks to create a new subtask when modifying properties other than "Start time" or "Scan frequency" has been resolved.
- Time and date values in searches now support relative times in more cases.
- Improved handling of API request retries for integrations.
- JSON alert templates now render arrays and objects as JSON arrays and JSON objects, without needing to loop through fields or values.

- Fingerprint improvements.

4.0.240826.0

Aug 26, 2024

- An issue that could cause custom integration attributes to be deleted during asset merging has been fixed.
- An issue that could result in large numbers of attributes attached to assets in some situations has been fixed.
- The performance of the CrowdStrike integration has been improved.
- Fingerprint improvements.

4.0.240825.1

Aug 25, 2024

- An issue that could result in integration source attributes not aging out during merges has been resolved.

4.0.240825.0

Aug 25, 2024

- Scan and passive discovery tasks now complete faster for large sites.
- CrowdStrike integration tasks now complete faster.
- Fingerprint improvements.

4.0.240822.0

Aug 22, 2024

- Operating System End of Life (EoL) coverage has been improved for Cisco IOS XE, IBM AIX, Juniper Junos OS, and Palo Alto Networks PAN-OS.
- Integration-source asset processing now avoids matching assets with excessive attribute sets.
- Self-hosted installations now track performance profiles per task automatically.
- The asset inventory now supports the `foreign_attribute_count` keyword.
- Fingerprint improvements.

4.0.240820.0

Aug 20, 2024

- A new system query for assets past OS Extended End of Life has been added to the library.
- Passive sampling tasks can now identify Avast, Bitdefender, Carbon Black, ESET, Kaspersky, McAfee, SentinelOne, and Trellix AV/EDR products.
- The Alerts page has been redesigned for ease of use.
- Asset merging performance has been improved.
- Fingerprint improvements.

4.0.240817.0

Aug 17, 2024

- An issue that could result in bad matches due to blank foreign IDs has been resolved. Assets that had conflicting source data due to blank foreign ID matching will rebuild as part of normal job processing.

4.0.240816.0

Aug 16, 2024

- The self-hosted installer now supports custom installation and temporary directory paths.
- The self-hosted installer now supports systems with disabled or restricted sudo.
- The self-hosted console now supports text-format logging via the LOG_FORMAT=text configuration parameter.
- Asset merging performance has been improved.
- Fingerprint improvements.

4.0.240814.0

Aug 14, 2024

- The Meraki integration now supports filtering the imported assets by organization name and/or ID.
- The Qualys integration now supports filtering the imported assets by tags.
- The Operating System icons in the Asset Inventory view have been improved.
- License utilization is now available as a percentage on the license information page.
- Directory group CSV exports now include the directory_group_user_count field at the end of the existing column set.
- The Switch topology report has been redesigned for ease of use.

- An issue that could cause multi-homed hosts to be missing links in the Switch topology report has been resolved.
- Fingerprinting logic has been improved so as to better account for certain source combinations.
- Fingerprint improvements.

4.0.240811.0

Aug 11, 2024

- An issue that prevented software vendor searches by prefix with wildcards from working was fixed.
- Fingerprint improvements.

4.0.240809.0

Aug 9, 2024

- The Alert Templates page has been redesigned for ease of use.
- An issue which caused valid JSON event rule templates to be rejected has been fixed.
- An issue causing MAC and IP address mapping information to be dropped from custom integration device data was fixed.
- Fingerprint improvements.

4.0.240807.0

Aug 7, 2024

- The Alert Rules page has been redesigned for ease of use.
- Fingerprint improvements.

4.0.240803.0

Aug 3, 2024

- Azure and GCP subscription IDs are now also stored in the top-level asset attributes.
- Fingerprint improvements.

4.0.240802.0

Aug 2, 2024

- An issue that could prevent the Tenable Security Center from importing data has been resolved.
- The dashboard now supports filtering trending widgets by a customizable date range.

- Improved detection of invalid services.
- Fingerprint improvements.

4.0.240731.1

Jul 31, 2024

- An issue that could lead to HTTP service data ordering being incorrect has been resolved.

4.0.240731.0

Jul 31, 2024

- An issue that could reduce performance of large task processing has been resolved.
- Fingerprint improvements.

4.0.240730.0

Jul 30, 2024

- Fingerprint improvements.

4.0.240729.1

Jul 29, 2024

- An issue that could prevent the CrowdStrike integration from running from an Explorer has been resolved.
- The matching engine for integration-sourced assets is now faster, more accurate, and better at merging related devices.
- SSH enumeration now results in more consistently-named fields.

4.0.240729.0

Jul 29, 2024

- The Meraki integration now supports filtering by VLAN and SSID.
- Fingerprint improvements.

4.0.240727.0

Jul 27, 2024

- An issue that prevented vulnerability group exports from applying the search filter has been resolved.

- SSH enumeration now captures all host keys as well as server extensions.
- Fingerprint improvements.

4.0.240726.0

Jul 26, 2024

- An issue that prevented checkbox states from persisting in some cases has been resolved.
- Fingerprint improvements.

4.0.240725.0

Jul 25, 2024

- Discovery of devices using the TwinCAT ADS protocol is now supported.
- Asset risk, vulnerability, and outlier fields are now available for use in Event templates.
- Temporary directory selection for Explorers has been improved.
- An issue preventing the display of integration data fetch durations has been resolved.
- Fingerprint improvements.

4.0.240722.0

Jul 22, 2024

- An issue that could result in vulnerabilities not being calculated when software entries were not present has been fixed.
- Name-based asset matching has been significantly improved and now uses more sources and trusts PTR records less.
- Fingerprint improvements.

4.0.240719.0

Jul 19, 2024

- An issue regarding the Tenable Security Center integration risk filter has been resolved.
- Merging of VMware assets has been improved.
- Fingerprint improvements.

4.0.240718.0

Jul 18, 2024

- An issue that caused the Goals Overview dashboard widget to display an incorrect number of days worth of data instead of the selected timeframe has been resolved.
- Network topology calculation is now faster and runs as part of the metrics analysis task and not inline with normal task processing.
- Additional CrowdStrike device data is available for users with access to CrowdStrike's Discover API.
- CrowdStrike, InTune, Tenable, and Wiz integrations are now faster at processing large datasets.
- The Asset ID and Organization ID are now shown on their respective details pages.
- Fingerprint improvements.

4.0.240716.0

Jul 16, 2024

- The CLI scanner now correctly supports the `--import-pcap` option.
- Hosts with only some of their addresses excluded will now match existing assets during merge.
- Meraki-connector sourced assets now report the wired-side MAC for better correlation.
- Fingerprint improvements.

4.0.240715.1

Jul 15, 2024

- Connectors now use fast-fallback to IPv4 for non-responsive IPv6 endpoints.
- A performance regression with topology calculation has been resolved.
- The Tenable connector now supports filtering by source and tag.

4.0.240715.0

Jul 15, 2024

- Fingerprint improvements.

4.0.240712.0

Jul 12, 2024

- Performance of the CrowdStrike integration has been improved.
- An issue that prevented inventory table preferences from persisting throughout the product has been resolved.

- Fingerprint improvements.

4.0.240707.0

Jul 7, 2024

- Support for searching for assets and vulnerabilities by VulnCheck KEV membership has been added.
- The CrowdStrike integration now retrieves more detailed information.
- An issue that could prevent users with community licenses from initiating hosted scans has been fixed.
- An issue that could cause VMware guest operating systems to be incorrectly fingerprinted has been fixed.
- Fingerprint improvements.

4.0.240702.0

Jul 2, 2024

- An issue that could cause asset type to be set to `Desktop` incorrectly has been fixed.
- An issue that could cause certain virtual machine types to not merge properly has been fixed.
- An issue that could cause certain version comparison queries to not be parsed correctly has been fixed.
- Fingerprint improvements.

4.0.240628.0

Jun 28, 2024

- Version fields across the product are now sortable semantically and can be filtered using the operators ``>`, ``>=`, ``<`, ``<=`, ``=``.
- The Meraki integration now supports filtering on specific networks by name or ID.
- The scanner now supports the Canon BJNP protocol.
- Fingerprint improvements.

4.0.240627.0

Jun 27, 2024

- EPSS scores for vulnerabilities are now searchable with the ``epss_score`` keyword.
- The vulnerability information page now shows more information about CISA KEV membership and EPSS scores for vulnerabilities that have relevant information.
- The Asset Ownership report now supports up to 15,000 owners at a time.

- Major performance improvements in vulnerability search.
- Fingerprint improvements.

4.0.240626.1

Jun 26, 2024

- The Meraki integration now populates the switch topology report.
- VMware guests will now link correctly when observed between different ESXi servers and vCenter endpoints.
- The Intune integration now supports an optional filter for devices.
- The search option for the Azure AD integration has been deprecated.
- An issue causing custom widgets to drill down into inventory views with an incorrect `alive:t` filter despite the query's configuration has been resolved.
- Fingerprint improvements.

4.0.240622.0

Jun 22, 2024

- An issue that could lead to incomplete MSSQL enumeration has been resolved.
- An issue that could result in the wrong IP address being assigned to a CrowdStrike record has been resolved.
- Fingerprint improvements.

4.0.240621.0

Jun 21, 2024

- An issue in the Organization Overview report has been fixed and the report speed was improved.
- Custom widgets based on queries have been added to the dashboard. Users can create custom widgets from the widget library on the dashboard, or from the query library.
- Improved discovery and data collection from Microsoft SQL Server endpoints.

4.0.240620.0

Jun 20, 2024

- Fingerprint improvements.

4.0.240619.2

Jun 19, 2024

- Improved logging for CrowdStrike connection errors.

4.0.240619.1

Jun 19, 2024

- An issue that could prevent CrowdStrike credentials from successfully validating has been resolved.
- Fingerprint improvements.

4.0.240619.0

Jun 19, 2024

- An issue that could prevent Azure integrations from being created has been resolved.
- Fingerprint improvements.

4.0.240618.0

Jun 18, 2024

- Passive traffic sampling is now more accurate at detecting syslog clients.
- The scanner now supports providing scan options via a JSON formatted configuration file.
- Fingerprint improvements.

4.0.240616.0

Jun 16, 2024

- The Export API endpoints now support POST requests with application/x-www-form-urlencoded parameters. This allows for larger search queries and field filters to be specified.
- Fingerprint improvements.

4.0.240614.0

Jun 14, 2024

- An issue that could result in stalled scans in some situations has been fixed.
- x.509 serial number values in tls.serial will no longer have the leading zero removed.
- Fingerprint improvements.

4.0.240613.0

Jun 13, 2024

- An issue that could prevent non-Windows installations of the runZero Explorer from restarting has been resolved.
- An issue that could result in stale MAC addresses accruing on Tenable assets has been resolved.
- An issue that could result in long timeouts for CrowdStrike tasks with invalid credentials has been resolved.
- An issue that prevented custom integration attribute links from returning results with mix-cased integration names has been resolved.
- Fingerprinting for Azure VMs now prefers the Azure HW assertion over other sources.
- Fingerprint improvements.

4.0.240612.0

Jun 12, 2024

- An issue that could cause the Meraki integration to error has been resolved.
- An issue that could cause incorrect data to display on the dashboard's most and least seen widgets when toggling the view has been resolved.
- Fingerprint improvements.

4.0.240610.0

Jun 10, 2024

- A visual bug making some toggles in the UI appear incorrectly has been resolved.
- An issue that could prevent Intune devices from being synced has been resolved.
- Fingerprint improvements.

4.0.240607.0

Jun 7, 2024

- Improved discovery and data collection from Microsoft SQL Server endpoints.
- Fingerprint improvements.

4.0.240606.1

Jun 6, 2024

- An issue that could cause the Intune integration to skip syncing certain devices has been resolved.

4.0.240606.0

Jun 6, 2024

- An issue that could result in new Explorer installations on Windows not including npcap has been resolved.
- An issue that could result in connector tasks being stuck in "stopping" status has been resolved.
- Users with no access permissions are no longer allowed to view the account's superusers.
- Organization hierarchies are now supported up to four levels deep.
- Fingerprint improvements.

4.0.240605.0

Jun 5, 2024

- Support for searching for assets and vulnerabilities by CISA KEV membership has been added.
- Performance improvements.
- Fingerprint improvements.

4.0.240603.0

Jun 3, 2024

- The Defender integration now supports filtering assets that have not been fully onboarded.
- The Defender integration now supports the Graph API filter parameter when running as a scanner probe.
- The Events view is no longer limited to the previous 30 days of records.
- The Explorer now uses consistent file names during the upgrade process.
- An issue that prevented the Defender and Intune configuration from validating when specifying a new Azure credential has been resolved.
- Fingerprint improvements.

4.0.240531.0

May 31, 2024

- Discovery of devices using the XDMCP protocol is now supported.
- An issue that could cause incorrect OS CPE generation has been resolved.

- OS version information in Fortinet FortiOS CPE values has been improved.
- Operating System End of Life (EoL) information is now available for Fortinet FortiOS.
- Asset merge logic has been improved.
- Fingerprint improvements.

4.0.240530.0

May 30, 2024

- An issue that could show a "user not found" error in API-submitted import jobs has been resolved.
- Fingerprint improvements.

4.0.240529.1

May 29, 2024

- runZero now integrates with Meraki. This initial support syncs Devices and Clients to your runZero inventory.
- An issue that could result in an "invalid query" message shown in the self-hosted query library has been resolved.
- An issue that could result in incorrect display of Punycode-encoded hostnames has been resolved.
- An issue that could lead to incorrectly assigned MAC addresses due to cross-VLAN mDNS relays in traffic sampling has been resolved.
- An issue that could lead to invalid MAC address attributes from Defender 365 sources has been resolved.
- An issue that could lead to runZero scan results being attached to not-onboarded Defender 365 assets instead of onboarded assets has been resolved.
- An issue that could result in assets being marked as Laptops instead of Desktops has been resolved.
- An issue that could result in multiple passive sampling tasks being scheduled on the same Explorer has been resolved.
- Fingerprint improvements.

4.0.240524.0

May 24, 2024

- The dashboard now supports theater/kiosk mode and fullscreen display options.
- The dashboard widget library now includes a customizable bookmarks widget, that can be used to jump to your favorite reports and views in runZero or to external web sites.

- An issue that could prevent users with organization-specific roles from editing asset tags has been resolved.
- Fingerprint improvements.

4.0.240522.0

May 22, 2024

- Performance improvements.
- Fingerprint improvements.

4.0.240519.0

May 19, 2024

- The domain: scan target keyword now returns substantially more results for most domains.
- The scanner now treats in-scope addresses found by SNMP as primary addresses.
- The scanner no longer adds reflected IP addresses in L2TP hostname responses.
- The scanner no longer merges specific Netgear switches unintentionally.
- The AzureAD (EntraID) connector now supports the \$search and \$filter parameters for the Microsoft Graph API.
- The LDAP connector now syncs additional fields, including employeeID, ms-Mcs-AdmPwdExpirationTime, and ms-LAPS-PasswordExpirationTime.
- The CrowdStrike connector now provides better OS fingerprinting during multi-source asset processing.
- The Qualys connector is now more resilient with transient network and service timeouts.
- The Qualys connector now prioritizes Agent-based operating system fingerprints.
- The Custom Integration SDK can now ingest ipAddresses, ipAddressesExtra, and macAddresses fields directly without the presence of a NetworkInterface structure.
- An issue that could prevent the Tenable connector from exporting data has been resolved.
- An issue that could result in stale asset attributes after passive discovery has been resolved.
- An issue that could result in stale service summary columns has been resolved.
- Fingerprint improvements.

4.0.240516.0

May 16, 2024

- Fingerprint improvements.

4.0.240514.0

May 14, 2024

- Filtering of bogus responses, particularly from interception features of Fortinet gear, has been greatly improved.
- Improved logging for Azure and Intune integrations.
- Fingerprint improvements.

4.0.240508.0

May 8, 2024

- An issue that could result in unexpected Wiz authentication errors being included in task logs has been resolved.

4.0.240503.0

May 3, 2024

- Creating hosted zone scan tasks via API no longer fails if the site has no non-hosted explorers.
- Fingerprint improvements.

4.0.240501.0

May 1, 2024

- Fingerprint improvements.

4.0.240429.0

Apr 29, 2024

- Improved handling of large vulnerability results in the CrowdStrike integration.
- Fingerprint improvements.

4.0.240425.0

Apr 25, 2024

- Fingerprint improvements.

4.0.240424.0

Apr 24, 2024

- Fingerprint improvements.

4.0.240423.0

Apr 23, 2024

- An issue that prevented SSO users from setting a password when SSO was disabled at the runZero account level has been resolved.
- Operating System End of Life (EoL) information is now available for SUSE Enterprise Linux and Apple tvOS.
- Fingerprint improvements.

4.0.240419.0

Apr 19, 2024

- Fingerprinting of assets based on Microsoft 365 Defender data has been improved.
- Fingerprint improvements.

4.0.240417.0

Apr 17, 2024

- Accessibility improvements.
- An issue that could result in errors when deleting a site has been resolved.
- An issue that could cause Wiz tasks to error has been resolved.
- Fingerprint improvements.

4.0.240411.0

Apr 11, 2024

- runZero customers can now sync asset, software, and vulnerability data from Wiz.
- Fingerprint improvements.

4.0.240410.0

Apr 10, 2024

- The runZero dashboard has been improved to better respond to browser window resizing.
- Fingerprint improvements.

4.0.240408.0

Apr 8, 2024

- Data collection from slow SSH services has been improved.
- Fortinet devices are now less likely to cause duplicate assets when traffic is collected using traffic sampling.
- The runZero Explorer now silently skips non-ethernet-like utun (tunnel) interfaces on macOS.
- An issue preventing the "User details" page for external users from loading has been resolved.
- An issue that could lead to errors when changing email address was fixed.
- An issue that could lead to errors when deleting a user was fixed.
- Fingerprint improvements.

4.0.240405.0

Apr 5, 2024

- The profile settings page has been redesigned.
- Names can now be given to multi-factor authentication tokens when enrolling new tokens.

4.0.240404.0

Apr 4, 2024

- Fingerprint improvements.

4.0.240403.0

Apr 3, 2024

- An issue that prevented proper click through from the Query Insights dashboard widget to the appropriate inventory view was fixed.
- Matching of MAC addresses of Fortinet firewall devices was improved.
- Fingerprint improvements.

4.0.240402.0

Apr 2, 2024

- Fingerprint improvements.

4.0.240401.0

Apr 1, 2024

- The layout of the runZero dashboard is now fully customizable.
- The runZero dashboard now supports exporting views as CSV and PNG.
- Fingerprint improvements.

4.0.240331.0

Mar 31, 2024

- Integration task processing is now much faster for assets with large numbers of MAC addresses.
- An issue that could result in assets accumulating link-local IPv6 addresses has been resolved.
- Fingerprint improvements.

4.0.240329.0

Mar 29, 2024

- The "Contact runZero support" menu has been redesigned.
- An issue that could cause the services attribute report to fail has been resolved.
- An issue that could cause hostnames with spaces to be turned into multiple hostnames when imported from the AzureAD connector has been resolved.
- Improved logging for the Intune integration.
- UI improvements.
- Fingerprint improvements.

4.0.240327.0

Mar 27, 2024

- Tenable connector data processing is now significantly faster for devices with large numbers of MAC addresses.
- An issue that could result in the self-hosted updater showing a SQL error during startup has been resolved.

- An issue that could cause scans running on Windows Explorers to accidentally terminate unrelated processes has been resolved.
- Fingerprint improvements.

4.0.240326.0

Mar 26, 2024

- The CrowdStrike connector now only imports actively installed software.
- The CrowdStrike connector now handles large software and vulnerability results reliably.
- The CrowdStrike connector now better filters system accounts from the lastInteractiveUser attribute.
- Fingerprint improvements.

4.0.240325.0

Mar 25, 2024

- Fingerprint improvements.

4.0.240320.0

Mar 20, 2024

- Fingerprint improvements.

4.0.240318.0

Mar 18, 2024

- Task ID is now visible when inspecting a task on the task overview page and on the task details page.
- An issue with calculating mid-scan progress for connector tasks running on Explorers has been resolved.
- An issue that could cause service start issues after upgrading self-hosted runZero instances has been resolved.
- Fingerprint improvements.

4.0.240314.0

Mar 14, 2024

- Colors throughout the product have been tweaked to improve accessibility, legibility, and consistency.
- Tables in the product can now be configured to prefer a mono-spaced variant of the table font.

- Tables throughout the product now allow users to choose text casing preference, available via the "Prefs" dropdown.
- An issue that could prevent updates to Directory Users / Groups has been resolved.
- An issue that could cause the "concurrency" setting on Explorers to be incorrectly changed when editing an Explorer's settings has been resolved.
- Accessibility improvements.
- Fingerprint improvements.

4.0.240311.0

Mar 11, 2024

- An issue with processing malformed header data from RTSP responses has been resolved.
- The runZero CLI now completes faster for local networks.
- Self-hosted customers can now unbind SSO from a user account using the `runzeroctl user reset` command.
- Self-hosted customers can now change the SSO mode using the `runzeroctl sso-mode *mode*` command.
- Accessibility improvements.
- Fingerprint improvements.

4.0.240308.0

Mar 8, 2024

- An issue that could cause short keywords to not show any autocomplete suggestions in the query builder has been resolved.
- Long fields in Nmap XML exports of asset data are no longer truncated.
- Probing devices using EtherNet/IP is now supported over UDP.
- Fingerprint improvements.

4.0.240306.0

Mar 6, 2024

- An issue that could prevent new self hosted installations or updating existing installations has been resolved.
- Fingerprint improvements.

4.0.240305.1

Mar 5, 2024

- An issue that could result in incorrect asset merging in certain situations has been resolved.
- An issue that could result in delayed analysis for busy Organizations has been resolved.
- Fingerprint improvements.

4.0.240305.0

Mar 5, 2024

- Fingerprint improvements.

4.0.240304.0

Mar 4, 2024

- Fingerprint improvements.

4.0.240301.0

Mar 1, 2024

- A new "serialNumbers" column has been added to the asset CSV export. This field contains serial numbers observed during scanning, along with the protocol used to discover the serial number.
- An issue that could cause incorrect attack surface assignment to assets discovered by traffic sampling has been fixed.
- An issue which caused some task errors and warnings to fail to display has been fixed.
- Fingerprint improvements.

4.0.240228.0

Feb 28, 2024

- An issue that could prevent sites from being created per project for the Google Cloud Platform integration has been resolved.
- Fingerprint improvements.

4.0.240226.0

Feb 26, 2024

- An issue impacting Operating System End of Life (EoL) assertions for certain versions of Microsoft Windows and Linux distributions has been resolved.

4.0.240223.0

Feb 23, 2024

- An issue that could cause organization statistics to become out of date in organizations with frequent and concurrent tasks has been resolved.
- Operating System End of Life (EoL) information is now available for Apple iOS and iPadOS as well as CentOS Stream.
- Operating System Extended End of Life (EoL) generation has been improved.
- Fingerprint improvements.

4.0.240221.0

Feb 21, 2024

- The vulnerability inventory is now much faster for large organizations.
- Fingerprinting of devices via BGP is now supported.
- Tenable integration performance has been improved.
- An issue that could cause the asset and service attribute reports to fail has been resolved.
- An issue causing some credential form fields to disappear when modifying an existing credential has been resolved.
- An issue with the query format of site-filtered insights has been resolved.
- Fingerprint improvements.

4.0.240218.0

Feb 18, 2024

- Software inventory is now calculated as part of metrics, reducing task processing time.
- An issue that prevented the Organization picker from working on some pages has been resolved.
- Saved queries in the search suggestions menu are now ordered by when they were last updated.
- Improved asset correlation logic for devices with wired and wireless interfaces.
- Improved OS detection logic when considering multiple data sources.
- Fingerprint improvements.

4.0.240216.0

Feb 16, 2024

- Improved correlation behavior for assets with information from NTLMSSP or Qualys.
- Search query and query builder autocomplete results have been improved for shorter sets of input.
- An issue preventing the parent-organization-picker from appearing on the organization create and edit pages has been resolved.
- Fingerprint improvements.

4.0.240214.0

Feb 14, 2024

- Improved protocol detection during traffic sampling.
- The alert event type emitted after a client switch has changed from "login" to "client-switched".
- The "Site" column has been removed from the software groups table.
- An issue where the software inventory sometimes failed to update after a task has been resolved.

4.0.240213.0

Feb 13, 2024

- The Software Inventory is now much faster for large organizations.
- An issue that could result in stale service attributes persisting through rescans has been resolved.
- The `LOG_FORMAT` and `LOG_MAX_LENGTH` configuration values were renamed to `RUNZERO_LOG_FORMAT` and `RUNZERO_LOG_MAX_LENGTH` respectively. The old values will continue to work but are deprecated.
- The request timeout for the Qualys integration has been decreased.
- TCP stack based OS fingerprinting has been improved.
- Fingerprint improvements.

4.0.240208.0

Feb 8, 2024

- An issue with adding addresses for Custom Integration assets without MACs has been resolved.
- The request timeout for the Qualys integration has been increased.

4.0.240207.0

Feb 7, 2024

- Additional data points for result count and sent/received data have been added to the Tasks CSV export.
- An issue with the display format of site subnet tags on assets has been resolved.

4.0.240206.0

Feb 6, 2024

- Improved performance on the Software inventory table.
- Additional fields added to Query Builder autocomplete.
- An issue that prevented Site Subnet information from exporting with Assets has been resolved.
- An issue with data missing from the default email template for alerts has been resolved.

4.0.240205.0

Feb 5, 2024

- Filtering of hostnames collected from TLS X.509 certificates has been improved.
- An issue that could cause overlapping subnets to apply another Site's subnet tags has been resolved.
- An issue that could result in incorrect asset correlation between HP iLOs and their servers has been resolved.
- Fingerprint improvements.

4.0.240202.0

Feb 2, 2024

- Performance of Tenable.io connector tasks when only a subset of Severity/Risk values are selected has been improved.
- An issue that allowed users with the Administrator role to downgrade their own permissions has been resolved.
- An issue that could prevent Nessus attributes from being fully hydrated by runZero has been resolved.
- Fingerprint improvements.

4.0.240131.0

Jan 31, 2024

- Fingerprint improvements.

4.0.240129.0

Jan 29, 2024

- A query builder is now available, accessible from most datagrids by clicking the "Query builder" button to the right of the search bar.
- An issue which caused some out-of-date service information to remain on assets has been resolved.
- An issue which caused service information to be incorrectly removed from assets that were offline during a scan has been resolved.

4.0.240126.0

Jan 26, 2024

- Discovery of devices using the DNP3 protocol is now supported.
- Operating System End of Life (EoL) information is now available for Oracle Linux.
- Page break locations in the overview report have been improved.
- Operating System End of Life (EoL) generation for Red Hat Enterprise Linux and CentOS Linux has been improved.
- Assets with no known address are now labeled with "Unknown" for their address rather than "Unscanned".
- The bundled npcap driver has been updated to version 1.79.
- An issue that could prevent last task details from correctly displaying on the Sites datatable has been resolved.
- An issue that prevented the expansion of dropdown menu sub-menus using keyboard navigation has been resolved.
- An issue that could result in certain OS fingerprinting data not being updated has been resolved.
- An issue that could prevent creating new Azure Credentials via the Azure connector configuration page has been resolved.
- An issue causing Tenable.io integration tasks to import vulnerability data even when no severity or risk levels were selected has been resolved.
- Fingerprint improvements.

4.0.240124.0

Jan 24, 2024

- An issue that could result in hidden fields on the SNMP v3 Credentials form has been resolved.
- Fingerprinting of Red Hat Enterprise Linux derivatives when limited data is available has been improved.
- Additional fingerprint improvements.

4.0.240122.0

Jan 22, 2024

- The datagrid search bar has been improved to show recent queries and available queries from the query library.
- Fingerprinting of Red Hat Enterprise Linux and derivatives from Tenable product data has been improved.

4.0.240119.0

Jan 19, 2024

- Fixed an issue that prevented the "Edit user permissions" modal from working correctly.
- Fingerprint improvements.

4.0.240117.0

Jan 17, 2024

- Fixed an issue where custom integration task data could not be re-imported.
- Fixed an issue where Nessus imports could fail due to Nessus response size.
- Fingerprinting of Red Hat Enterprise Linux derivatives such as CentOS, Rocky Linux, and Oracle Linux has been improved.
- Fingerprint improvements.
- Accessibility improvements.

4.0.240112.0

Jan 12, 2024

- Site column has been added to all tasks lists in the task overview.
- Fingerprint improvements.

4.0.240110.0

Jan 10, 2024

- The Nmap XML export now uses the minimum and maximum asset last_seen timestamps as the start and stop times.
- An issue that could prevent stale services from being cleared from updated Assets has been resolved.
- A resource leak that affects self-hosted customers with transparent huge pages (THP) enabled has been resolved.
- Fingerprint improvements.

4.0.240109.0

Jan 9, 2024

- Tenable Security Center tasks now only retrieve records updated since the previous sync.
- Fingerprint improvements.

4.0.240105.0

Jan 5, 2024

- An issue that prevented the API for creating passive sampling tasks from working as documented was fixed.
- An issue that could cause inventory grids to disappear when using Firefox and resizing the window below a certain point has been resolved.
- Improved error handling for Tenable, Tenable Security Center, and CrowdStrike integrations.
- Fingerprint improvements.

4.0.240103.0

Jan 3, 2024

- Improved correlation for assets sourced from the Censys and Shodan integrations.
- An issue that incorrectly logged certain task failures as 'explorer failed to queue task' has been resolved.
- Fingerprint improvements.

Release notes prior to 2024 can be found in the [release notes archive](#).

Updated May 5, 2026

[← runZero data dictionary](#)

[Archived release notes →](#)



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