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# Submit #791762: FoundationAgents MetaGPT 0.8.1 Server-Side Request Forgery (CWE-918)

**Title** FoundationAgents MetaGPT 0.8.1 Server-Side Request Forgery (CWE-918)

**Description** # Technical Details

A Server-Side Request Forgery (SSRF) vulnerability exists in MetaGPT due to insufficient URL validation in functions that fetch external resources, such as `decode_image()` in `metagpt/utils/common.py` and `download_model()`.

The `decode_image()` function accepts an image URL or base64 string; if it starts with "http", it directly passes the URL to `requests.get()` without any validation of the host, IP address, or scheme. An attacker who can influence the URL parameter (e.g., via LLM prompt injection or API response manipulation) can force the server to make unauthorized HTTP requests to internal network resources or cloud metadata endpoints.

# Vulnerable Code

File: `metagpt/utils/common.py`

Method: `decode_image(img_url_or_b64)`

Why: The line `resp = requests.get(img_url_or_b64)` performs an HTTP GET request to whatever URL is provided, lacking a blocklist for private IPs (e.g., `127.0.0.1`, `x.x.x.x`) or an allowlist of trusted domains.

# Reproduction

1. Start a local HTTP server to detect the SSRF (e.g., listening on port 18292).
2. Trigger the `decode_image()` function in MetaGPT and supply the internal URL `http://127.0.0.1:18292/internal/admin/secret` as the parameter.
3. Observe the MetaGPT process making a GET request to the local server, bypassing firewall restrictions and exposing internal network services.

# Impact

- Semi-Blind SSRF: Although the response in `decode_image` is routed into `Image.open()`, filtering non-image content, attackers can still achieve network reconnaissance (port scanning), trigger state-changing actions on internal services (e.g., REST APIs), and potentially exfiltrate data via DNS or timing side channels.

**Source** <https://github.com/FoundationAgents/MetaGPT/issues/1934>

**User** EricJ (UID 96861)

**Submission** 03/28/2026 04:42 AM (15 days ago)

**Moderation** 04/11/2026 09:49 AM (14 days later)

**Status** Resolved

**VulDB entry** [FoundationAgents MetaGPT up to 0.8.1 `metagpt/utils/common.py` `decode_image img_url_or_b64` server-side request forgery]

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