

Commit 1faf33f



blueandhack authored last week · ✓ 12 / 12 · Verified

Merge commit from fork

* fix: sanitize file ending values

Add validation and cleaning for file ending values to prevent shell/meta-character injection. Introduce INVALID_FILE_ENDING_CHARS and cleanFileEnding() which preserves leading dot and allows alphanumeric, underscore, hyphen and dot while replacing other chars with '_'. Apply cleaning to constructor config reads and to setInFileEnding/setOutFileEnding. Extend ExecutrixTest with unit tests covering cleanFileEnding behavior, setter sanitization, and configuration-time sanitization.

* chore: deduplicate and strengthen cleanFileEnding tests

main · 8.43.0

1 parent [082b263](#) commit 1faf33f

2 files changed +117 -4 lines changed

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- ✓ src
 - ✓ main/java/emissary/util/shell
 - Executrix.java
 - ✓ test/java/emissary/util/shell
 - ExecutrixTest.java

2 files changed +117 -4 lines changed



✓ ...ain/java/emissary/util/shell/Executrix.java ...

@@ -77,6 +77,12 @@ public enum OUTPUT_TYPE {

77 77

```

78      78      protected static final Pattern INVALID_PLACE_NAME_CHARS =
          Pattern.compile("[^a-zA-Z0-9_-]");

79      79

80      +      /**
81      +          * Allowlist for file ending values. A leading dot is permitted so that
          normal extensions like {@code .out} are accepted
82      +          * unchanged; every other character must be alphanumeric, underscore, or
          hyphen.
83      +          */
84      +      protected static final Pattern INVALID_FILE_ENDING_CHARS =
          Pattern.compile("[^a-zA-Z0-9_\\.\\-]");
85      +

80      86          /**
81      87          * Create using all defaults
82      88          */

@@ -118,8 +124,8 @@ protected void configure(@Nullable final Configurator
configGArg) {
118     124          final Configurator configG = (configGArg != null) ? configGArg : new
ServiceConfigGuide();

119     125

120     126          this.command = configG.findStringEntry("EXEC_COMMAND", "echo
'YouForGotToSetEXEC_COMMAND' | tee bla.txt");

121     -          this.inFileEnding = configG.findStringEntry("IN_FILE_ENDING", "");
122     -          this.outFileEnding = configG.findStringEntry("OUT_FILE_ENDING",
this.inFileEnding.isEmpty() ? ".out" : "");

127     +          this.inFileEnding =
cleanFileEnding(configG.findStringEntry("IN_FILE_ENDING", ""));
128     +          this.outFileEnding =
cleanFileEnding(configG.findStringEntry("OUT_FILE_ENDING",
this.inFileEnding.isEmpty() ? ".out" : ""));

123     129          this.output = configG.findStringEntry("OUTPUT_TYPE", "STD");
124     130          this.order = configG.findStringEntry("ORDER", "NORMAL");
125     131          this.numArgs = configG.findStringEntry("NUM_ARGS", "");

@@ -149,6 +155,16 @@ protected static String cleanPlaceName(final String
placeName) {
149     155          return INVALID_PLACE_NAME_CHARS.matcher(placeName).replaceAll("_");
150     156      }
151     157

158     +      /**

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159 +     * Remove invalid characters from a file ending value, see {@link
      Executrix#INVALID_FILE_ENDING_CHARS}
160 +     *
161 +     * @param fileEnding the raw file ending (e.g. {@code .out})
162 +     * @return a cleaned string with shell-unsafe characters replaced by
      {@code _}
163 +     */
164 +     protected static String cleanFileEnding(final String fileEnding) {
165 +         return INVALID_FILE_ENDING_CHARS.matcher(fileEnding).replaceAll("_");
166 +     }
167 +
152 168     /**
153 169     * Creates a set of temp file names (does not do any disk activity)
154 170     *
@@ -1174,7 +1190,7 @@ public String getInFileEnding() {
1174 1190     * @param argInFileEnding Value to assign to this.inFileEnding
1175 1191     */
1176 1192     public void setInFileEnding(final String argInFileEnding) {
1177 -         this.inFileEnding = argInFileEnding;
1193 +         this.inFileEnding = cleanFileEnding(argInFileEnding);
1178 1194     }
1179 1195
1180 1196     /**
@@ -1192,7 +1208,7 @@ public String getOutFileEnding() {
1192 1208     * @param argOutFileEnding Value to assign to this.outFileEnding
1193 1209     */
1194 1210     public void setOutFileEnding(final String argOutFileEnding) {
1195 -         this.outFileEnding = argOutFileEnding;
1211 +         this.outFileEnding = cleanFileEnding(argOutFileEnding);
1196 1212     }
1197 1213
1198 1214     /**

```

```

...java/emissary/util/shell/ExecutrixTest.java
... @@ -1,5 +1,7 @@
1 1     package emissary.util.shell;
2 2
3 3 + import emissary.config.Configurator;

```

```
4 + import emissary.config.ServiceConfigGuide;
3 5 import emissary.test.core.junit5.UnitTest;
4 6
5 7 import jakarta.annotation.Nullable;
@@ -603,6 +605,101 @@ void testCleanPlaceName() {
603 605 assertEquals("PLACE-NAME-1", Executrix.cleanPlaceName("PLACE-NAME-1"));
604 606 }
605 607
608 + // -----
609 + // cleanFileEnding - covers INVALID_FILE_ENDING_CHARS and cleanFileEnding()
610 + // -----
611 +
612 + @Test
613 + void testCleanFileEndingAllowedCharsPassThrough() {
614 +     // Normal extensions must survive unchanged
615 +     assertEquals(".out", Executrix.cleanFileEnding(".out"));
616 +     assertEquals(".txt", Executrix.cleanFileEnding(".txt"));
617 +     assertEquals("", Executrix.cleanFileEnding(""));
618 +     assertEquals(".out-1_a", Executrix.cleanFileEnding(".out-1_a"));
619 +     assertEquals("ABC123._-", Executrix.cleanFileEnding("ABC123._-"));
620 + }
621 +
622 + @Test
623 + void testCleanFileEndingShellMetacharacters() {
624 +     // Every shell-special character must be individually replaced with '_'
625 +     assertEquals("_", Executrix.cleanFileEnding("`"));
626 +     assertEquals("_", Executrix.cleanFileEnding("$"));
627 +     assertEquals("_", Executrix.cleanFileEnding(";"));
628 +     assertEquals("_", Executrix.cleanFileEnding("&"));
629 +     assertEquals("_", Executrix.cleanFileEnding("|"));
630 +     assertEquals("_", Executrix.cleanFileEnding(">"));
631 +     assertEquals("_", Executrix.cleanFileEnding("<"));
632 +     assertEquals("_", Executrix.cleanFileEnding("!"));
633 +     assertEquals("_", Executrix.cleanFileEnding(" "));
634 +     assertEquals("_", Executrix.cleanFileEnding("("));
635 +     assertEquals("_", Executrix.cleanFileEnding(")"));
636 +     assertEquals("_", Executrix.cleanFileEnding("\""));
637 +     assertEquals("_", Executrix.cleanFileEnding("\\"));
638 +     assertEquals("_", Executrix.cleanFileEnding("\\\""));
```

```
639 +     assertEquals("_", Executrix.cleanFileEnding("/"));
640 +     assertEquals("_", Executrix.cleanFileEnding("\n"));
641 +     assertEquals("_", Executrix.cleanFileEnding("\t"));
642 + }
643 +
644 + @Test
645 + void testCleanFileEndingDoesNotStripHyphenOrUnderscore() {
646 +     // Hyphen and underscore are safe in file extensions and must not be
replaced
647 +     assertEquals(".tar.gz", Executrix.cleanFileEnding(".tar.gz"));
648 +     assertEquals(".out-v2", Executrix.cleanFileEnding(".out-v2"));
649 +     assertEquals(".out_v2", Executrix.cleanFileEnding(".out_v2"));
650 + }
651 +
652 + // -----
653 + // setInFileEnding / setOutFileEnding - sanitization enforced by setters
654 + // -----
655 +
656 + @Test
657 + void testSetFileEndingsNormalValuesUnchanged() {
658 +     // Legitimate extensions must not be altered by the setters
659 +     e.setInFileEnding(".in");
660 +     assertEquals(".in", e.getInFileEnding());
661 +
662 +     e.setOutFileEnding(".out");
663 +     assertEquals(".out", e.getOutFileEnding());
664 + }
665 +
666 + @Test
667 + void testSetFileEndingsSanitizeInjectionPayloads() {
668 +     e.setInFileEnding("`id`");
669 +     assertEquals("_id_", e.getInFileEnding());
670 +
671 +     e.setOutFileEnding(";rm -rf /");
672 +     assertEquals("_rm_-rf__", e.getOutFileEnding());
673 + }
674 +
675 + // -----
676 + // configure() path - sanitization applied when reading from Configurator
677 + // -----
```

```
678 +
679 +     @Test
680 +     void testConfigureFileEndingsSanitizedFromConfig() {
681 +         // Injection payloads in config must be neutralized at construction
        time
682 +         final Configurator cfg = new ServiceConfigGuide();
683 +         cfg.addEntry("IN_FILE_ENDING", "`id > /tmp/pwned.txt`");
684 +         cfg.addEntry("OUT_FILE_ENDING", "${whoami}");
685 +
686 +         final Executrix ex = new Executrix(cfg);
687 +         assertEquals("_id____tmp_pwned.txt_", ex.getInFileEnding());
688 +         assertEquals("__whoami_", ex.getOutFileEnding());
689 +     }
690 +
691 +     @Test
692 +     void testConfigureNormalFileEndingsUnchanged() {
693 +         // Normal extensions must pass through configure() without modification
694 +         final Configurator cfg = new ServiceConfigGuide();
695 +         cfg.addEntry("IN_FILE_ENDING", ".xml");
696 +         cfg.addEntry("OUT_FILE_ENDING", ".json");
697 +
698 +         final Executrix ex = new Executrix(cfg);
699 +         assertEquals(".xml", ex.getInFileEnding());
700 +         assertEquals(".json", ex.getOutFileEnding());
701 +     }
702 +
606 703     private static void readAndNuke(final String name) throws IOException {
607 704         final File f = new File(name);
608 705         assertTrue(f.exists(), "File " + name + " must exist");
```



Comments 0



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