IMPORTANT NOTE: This patch is intended only for Faspex version 4.4.2.

IMPORTANT NOTE: If you think your environment has been compromised, contact IBM Aspera support before applying the security fixes included in this patch.

FASPEX 4.4.2 PATCH Level 5

Operating Systems: Windows
Date: 01/04/2024

This patch includes the following fixes:

Patch Level 5 Fixes

GitHub Issue	Description
Aspera/faspex4#543	Security improvements for CVE-2023-27522, CVE-2023-25690

Patch Level 4 Fixes

GitHub Issue	Description
Aspera/faspex4#520	Security improvements - Faspex 4.4.2 PL 3 showing OAuth vulnerability CVE-2023-27871
Aspera/faspex4#468	Security improvements - Faspex 4.4.2 PL 3 IP address access restriction bypass vulnerability PSIRT# PVR0438526

Patch Level 3 Fixes

GitHub Issue	Description
Aspera/faspex4#446	Return the `X-IBM-Aspera` HTTP header to show the server's current running version
Aspera/faspex4#445	Added a new rake task `asctl faspex:rake aspera:renew_secrets` to renew secrets and update relevant passwords in one command
Aspera/faspex4#443	Read request parameters as the correct data type
Aspera/faspex4#440	Enhance XML validation for endpoints that accept requests in XML format
Aspera/faspex4#439	Stop treating requests in XML format as request parameters

Patch Level 2 Fixes

Jira Issue	Description
FASPX-2054	JQuery-UI: Using now jquery-ui v. 1.13.2

Jira Issue	Description
FASPX-2100	YAML: Pre-auth RCE(Remote code execution) in /package_relay/relay_package due to insecure YAML deserialization has been supressed
FASPX-2104	XSS: Restrict render type to avoid to insecure rendering
FASPX-2087	Apache: Using apache 2.4.54 now
FASPX-2095	OpenSSL: Using openssl 1.1.1s now
FASPX-2096	Zlib: Using zlib 1.2.13 now

Patch Level 1 Fixes

Jira Issue	Description
FASPX-2092	Clickjacking: CSP frame-ancestors missing

PATCH INSTRUCTIONS

Pre-requisite

1. Confirm the Faspex version you have currently installed. You must be on Faspex: 4.4.2.185316 to apply this patch.

   ````$ asctl faspex:version```

Applying the patch for Windows systems:

1. Download the patch file (`IBM_Aspera_Faspex_4.4.2_Windows_Patch_Level_5.zip`) and unzip it.

2. Make sure to back up all the files in the Common folder (`C:\Program Files (x86)\Common Files\Aspera\Common`) and Faspex folder (`C:\Program Files (x86)\Aspera\Faspex\`).

3. Stop Faspex services:

   a. Go to **Control Panel > Administrative Tools > Services**.

   b. For every service with **IBM Aspera Faspex** in the name, right-click on the service and select **Stop** from the drop-down menu. (**Include** the **Apache** and **MySQL** services)

4. Replace existing files by copying patch files to the appropriate directories in Common folder (`C:\Program Files (x86)\Common Files\Aspera\Common`) and the Faspex folder (`C:\Program Files (x86)\Aspera\Faspex`).

5. Start MySQL service:

    a. Go to **Control Panel > Administrative Tools > Services**.

    b. Right-click on the **MySQL** service and select **Start** from the drop-down menu.

6. Run the following command to start Apache:

Open **cmd** and run this command

```
asctl apache:setup
```

7. Run the following command to upgrade Apache:

Open **cmd** and run this command

```
asctl apache:upgrade
```

8. Run the following command to get updated database schema:

```
asctl faspex:migrate_database
```

9. Confirm the patch was applied by checking the patch level listed in the footer (beneath the version number).