

**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 3

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**Operating Systems:** Linux

**Date:** 03/15/2023

This patch includes the following fixes:

### Patch Level 3 Fixes

GitHub Issue	Description
Aspera/faspex4#446	Return the <code>X-IBM-Aspera</code> HTTP header to show the server's current running version
Aspera/faspex4#445	Added a new rake task <code>asctl faspex:rake aspera:renew_secrets</code> 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
FASPX-2100	YAML: Pre-auth RCE(Remote code execution) in <code>/package_relay/relay_package</code> due to insecure YAML deserialization has been suppressed
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

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

## PATCH INSTRUCTIONS

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### 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 Linux systems:

1. Download the patch file ( `IBM_Aspira_Faspex_4.4.2_Linux_Patch_Level_3.zip` ) and unzip it.
2. Make sure to back up all the files in the common folder ( `/opt/aspera/common/` ) and faspex folder ( `/opt/aspera/faspex/` ).
3. Stop all services

```
$ asctl all:stop
```

4. Replace existing files by copying patch files to the appropriate directories in Common folder ( `/opt/aspera/common/` ) and the Faspex folder ( `/opt/aspera/faspex/` ).

Replacing common files:

```
$ /bin/cp -r patch_path/IBM_Aspira_Faspex_4.4.2_Linux_Patch_Level_3/common/* /opt/aspera/common/
```

Replacing faspex files:

```
$ /bin/cp -r patch_path/IBM_Aspira_Faspex_4.4.2_Linux_Patch_Level_3/faspex/* /opt/aspera/faspex/
```

5. Start MySQL:

```
asctl mysql:start
```

6. Run Apache setup and use the existing configuration settings:

```
```
```

```
asctl apache:setup
```

7. Run the following command to upgrade Apache:

```
asctl apache:upgrade
```

8. Change ownership of the `/opt/aspera/faspex` folder to the `faspex` group and `faspex` user:

```
cd /opt/aspera/faspex  
chown -R faspex:faspex *
```

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

```
asctl faspex:migrate_database
```

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

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