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## ArcGIS Notebook Server Security Patch

### Summary

This security patch addresses multiple security vulnerabilities found in log4j distributed with ArcGIS Notebook Server. Esri recommends that all customers using ArcGIS Notebook Server 10.9 with advanced license and advanced notebook runtime apply this patch.

### Description

Esri® announces the ArcGIS Notebook Server Security Patch. Esri recommends that all customers using ArcGIS Notebook Server 10.9 with advanced license and advanced notebook runtime apply this patch. This patch is not required if your notebook server is configured with a standard license and only a standard notebook runtime.

This patch deals specifically with the issues listed below under [Issues Addressed with this patch](#).

## Issues Addressed with this patch

- [BUG-000147723](#) - Update Log4j in ArcGIS Notebook Server to address security vulnerabilities.
- [BUG-000147725](#) - Update ArcGIS Notebook server postinstallation utility to support updating notebook runtimes with new imageld.

Please see [ArcGIS Enterprise Log4j Security Patches Available](#) for further details.

## Installing this patch on Windows

### Installation Steps:

This patch should be installed on all ArcGIS Notebook Server installations related to the ArcGIS Notebook Server site.

The ArcGIS product listed in the table must be installed on your system before you can install a patch. Each patch setup is specific to the ArcGIS product in the list. To determine which products are installed on your system, please see the [How to identify which ArcGIS products are installed](#) section. Esri recommends that you install the patch for each product that is on your system.

1. Download the appropriate file to a location other than your ArcGIS installation location.

ArcGIS Enterprise 10.9	
ArcGIS Notebook Server	<a href="#">ArcGIS-109-NBS-Log4j-Patch.msp</a>
Checksum (SHA256)	8AEB6B844DE5E20DDAB68A34E5FCA53FB74361AD553E59CDD85F3C2E9C3CCD7A

2. Make sure you have write access to your ArcGIS installation location.
3. Double-click ArcGIS-109-NBS-Log4j-Patch.msp to start the setup process.

NOTE: If double clicking on the MSP file does not start the setup installation, you can start the setup installation manually by using the following command:

```
msiexec.exe /p [location of Patch]\ArcGIS-109-Log4j-Patch.msp
```

Post installation steps for installing the Advanced Notebook Runtime Image on Windows.

Complete the following steps to download and install the advanced runtime image included with this patch.

1. Download the advanced runtime image file to a location other than your ArcGIS installation location.

ArcGIS Enterprise 10.9	
ArcGIS Notebook Server Advanced	<a href="#">arcgis-notebook-python-advanced-10.9.0.26417.1.tar.gz</a>
Checksum (SHA256)	<code>C63C732B1412E712857746E36EC4AB66A7A78BD39E49B8E0ACF03D2C9ECDD935</code>

2. Open the command prompt window as an administrator.
3. Change directories to the ArcGIS Notebook Server tools folder. By default, this path is C:\Program Files\ArcGIS\NotebookServer\tools\postInstallUtility.
4. Optionally, refer to the utility's help by running the following command:

```
> PostInstallUtility.bat -h
```

5. Install the Docker image `arcgis-notebook-python-advanced-10.9.0.26417.1.tar.gz` by specifying its file path. The image should be zipped in the `.tar.gz` format. Run the following command:

```
> PostInstallUtility.bat -l arcgis-notebook-python-advanced-10.9.0.26417.1.tar.gz
```

6. Run the following command to update the imageld in the advanced runtime:

```
> PostInstallUtility.bat -r 5.0 true false
```

7. Open ArcGIS Notebook Server Manager and sign in using an administrator account.

<https://arcgisportal.domain.com/<webadaptor>/home/notebook/manager.html>

8. Browse to Settings -> Runtimes

9. Edit ArcGIS Notebook Python 3 Advanced Version 5.0 runtime. Review and adjust the default properties as needed.

## Installing this patch on Linux

### Installation Steps:

Complete the following install steps as the ArcGIS Install owner. The Install owner is the owner of the arcgis folder. This patch should be installed on all ArcGIS Notebook Server installations related to the ArcGIS Notebook Server site.

The ArcGIS product listed in the table must be installed on your system before you can install a patch. Each patch setup is specific to the ArcGIS product in the list. To determine which products are installed on your system, please see the [How to identify which ArcGIS products are installed](#) section. Esri recommends that you install the patch for each product that is on your system.

1. Download the appropriate file to a location other than your ArcGIS installation location.

ArcGIS Enterprise 10.9	
ArcGIS	

ArcGIS Notebook Server	<a href="#">ArcGIS-109-NBS-Log4j-Patch-linux.tar</a>
Checksum (SHA256)	6251F896F0BCE05396755E5EE72171D6730FECC494DFF450B11033A2C11AAB61

2. Make sure you have write access to your ArcGIS installation location, and that no one is using ArcGIS.

3. Extract the specified tar file by typing:

```
% tar -xvf ArcGIS-109-NBS-Log4j-Patch-linux.tar
```

4. Start the installation by typing:

```
% ./applypatch
```

This will start the dialog for the menu-driven installation procedure. Default selections are noted in parentheses ( ). To quit the installation procedure, type 'q' at any time.

## Post installation steps for installing the Advanced Notebook Runtime Image on linux.

Complete the following steps to download and install the advanced runtime image included with this patch.

1. Download the advanced runtime image file to a location other than your ArcGIS installation location.

ArcGIS Enterprise 10.9	

ArcGIS Notebook Server Advanced	<a href="#">arcgis-notebook-python-advanced-10.9.0.26417.1.tar.gz</a>
Checksum (SHA256)	C63C732B1412E712857746E36EC4AB66A7A78BD39E49B8E0ACF03D2C9ECDD935

2. Open a terminal using the ArcGIS Notebook Server installation account.
3. Change directories to the ArcGIS Notebook Server tools folder. By default, this path is `${HOME}/arcgis/notebookserver/tools/postInstallUtility`.
4. Optionally, refer to the utility's help by running the following command:

```
> ./PostInstallUtility.sh -h
```

5. Install the Docker image `arcgis-notebook-python-advanced-10.9.0.26417.1.tar.gz` by specifying its file path. The image should be zipped in the `.tar.gz` format. Run the following command:

```
> ./PostInstallUtility.sh -l arcgis-notebook-python-advanced-10.9.0.26417.1.tar.gz
```

6. Run the following command to update the `imageld` in the advanced runtime:

```
> PostInstallUtility.bat -r 5.0 true false
```

7. Open ArcGIS Notebook Server Manager and sign in using an administrator account.

<https://arcgisportal.domain.com/<webadaptor>/home/notebook/manager.html>

8. Browse to Settings -> Runtimes

9. Edit ArcGIS Notebook Python 3 Advanced Version 5.0 runtime. Review and adjust the default properties as needed.

## Uninstalling this patch on Windows

1. To uninstall this patch on Windows, open the Windows Control Panel and navigate to installed programs. Make sure that "View installed updates" (upper left side of the Programs and Features dialog) is active. Select the patch name from the programs list and click Uninstall to remove the patch.
2. Open the command prompt window as an administrator.
3. Change directories to the ArcGIS Notebook Server tools folder. By default, this path is C:\Program Files\ArcGIS\NotebookServer\tools\postInstallUtility.
4. Optionally, refer to the utility's help by running the following command:

```
> PostInstallUtility.bat -h
```

5. Run the following command to update the imageld in the advanced runtime:

```
> PostInstallUtility.bat -r 5.0 true false
```

## Uninstalling this patch on Linux

1. To remove this patch on versions 10.7 and higher, navigate to the <Product Installation Directory>/.Setup/qfe directory and run the following script as the ArcGIS Install owner:

```
./removepatch.sh
```

The removepatch.sh script allows you to uninstall previously installed patches or hot fixes. Use the -s status flag to get the list of installed patches or hot fixes ordered by date. Use

the -q flag to remove patches or hot fixes in reverse chronological order by date they were installed. Type `removepatch -h` for usage help.

2. Restart your ArcGIS services

3. Open a terminal using the ArcGIS Notebook Server installation account.

4. Change directories to the ArcGIS Notebook Server tools folder. By default, this path is `${HOME}/arcgis/notebookserver/tools/postInstallUtility`.

5. Optionally, refer to the utility's help by running the following command:

```
> ./PostInstallUtility.sh -h
```

6. Run the following command to update the imageld in the advanced runtime:

```
> PostInstallUtility.bat -r 5.0 true false
```

## Patch Updates

Check the [Patches and Service Packs](#) page periodically for the availability of additional patches. New information about this patch will be posted here.

## How to identify which ArcGIS products are installed

To determine which ArcGIS products are installed, choose the appropriate version of the PatchFinder utility for your environment and run it from your local machine. PatchFinder will list all products, hot fixes, and patches installed on your local machine.

- [PatchFinder for Windows](#)
- [PatchFinder for Linux/Unix](#)

## Getting Help

Domestic sites, please contact Esri Technical Support at 1-888-377-4575, if you have any difficulty installing this patch. International sites, please contact your local [Esri software distributor](#).





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