



# Applying SAS Security Updates and Hot Fixes

## SAS 9.4M9

### Step 1 — Apply Product-Specific Hot Fixes

*All deployments must perform this step.*

Apply product-specific hot fixes using the following steps:

1. Run the [SASHFADD](#) tool to generate a report of hot fixes that you might want to apply to your deployment.
2. When you have determined which hot fixes to apply to your deployment, use the SASHFADD instructions to download and apply your hot fixes.

#### **Important**

The SASHFADD report does not list security updates. All deployments must apply all security updates as directed in this document then rebuild and redeploy web applications (see Step 3 and Step 4.)

3. Perform any pre-installation tasks for each hot fix.
4. Apply the hot fixes.
5. Perform any post-installation tasks for each hot fix. If the post-installation tasks include rebuilding and redeploying web applications, delay those tasks until you reach Step 3.

### Step 2 — Apply SAS Security Update 2025-12-M9

#### ***Determine Whether SAS Security Update 2025-12-M9 Is Needed***

To determine whether you have applied SAS Security Update 2025-12-M9, review the contents of this file:

```
SASHOME\InstallMisc\utilities\installqual\9.4\security_hotfix.properties
```

If the file does not exist, or if the file exists but does not list the version of the SAS security update as **21.0**, then you have not installed the latest version. Continue with these steps to apply SAS Security Update 2025-12-M9.

If the correct version is listed and if you have applied a hot fix, you might be directed to re-apply the update. If so, please re-apply the update to ensure system security.

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## Apply SAS Security Update 2025-12-M9

Use the following steps to apply the update. These steps should be performed for every machine in your deployment by applying the update on each installed and configured machine.

1. Before beginning, ensure that all active SAS sessions, daemons, spawners, servers, and agents are terminated. In addition, SAS strongly recommends that you back up your system before applying the update.

2. Download [SAS Security Update 2025-12-M9](#). If this link does not resolve, see Appendix 1: Alternate Links for Downloads.

3. Unzip `sas-security-update-2025-12-M9.zip` into a directory of your choice. On UNIX, using the `unzip` command is the best option. If you use WinZip or the `jar xvf` command, you must also use the following command to preserve the appropriate permissions:

```
chmod a+x install.sh
```

If the installer ID differs from the update directory owner, make the directory writable by all IDs in the same group with the following command:

```
chmod -R g+w /security-directory/sas-security-update-2025-12-M9
```

4. From the directory into which you unzipped, go to the `sas-security-update-2025-12-M9` directory.
5. In that directory, run the appropriate script using the same user ID that was used to install (installer ID). The script requires one argument— the full path to the `SASHOME` directory where the update is going to be applied.

### Windows

```
install.bat "SASHOME"
```

### Windows Example

```
install.bat "C:\Program Files\SAS"
```

*Note: Depending on your settings, you might have to use the **Run as administrator** option.*

### UNIX

```
./install.sh "SASHOME"
```

### UNIX Example

```
./install.sh "/usr/lpp/SAS"
```

6. The script applies the update to all files in the `SASHOME` and SAS Configuration directories that need to be updated. When the script finishes, a message states that the update is complete, and the script exits.
7. If you plan to deploy other hot fixes or updates from the location where you placed this ZIP file, you need to remove it from this location. The SAS Deployment Manager, which is used for deploying other hot fixes, does not recognize this file and will issue an error.
8. Continue to the next step.

## Step 3 — Rebuild and Redeploy Web Applications

*Perform this step on all primary middle-tier machines.*

After all updates and hot fixes have been applied, you must rebuild and redeploy every web application on each middle-tier machine to ensure that the updates and hot fixes take effect. The instructions for rebuilding and redeploying can be found in the following locations:

### **Rebuilding**

See “Rebuild the SAS Web Applications” in [SAS 9.4 Administration: Middle-Tier Administration Guide](#)

### **Redeploying**

See “Redeploy the SAS Web Applications” in [SAS 9.4 Administration: Middle-Tier Administration Guide](#)

When web applications are rebuilt, each web application’s content is backed up in a backup directory. This backup is explained in the section “Backups of Previous Web Application Versions” in the [SAS 9.4 Administration: Middle-Tier Administration Guide](#).

**Note:** JAR files with security vulnerabilities might be placed in the backup directory when rebuilding a web application. You should delete the backup directory once the web application has been successfully rebuilt, redeployed, and tested.

## Step 4 — Apply the SAS Security Update to a Horizontal Middle-Tier Cluster Node

*Perform this step on all horizontal cluster node middle-tier machines.*

Product-specific hot fixes might require additional manual steps for configuration on horizontal middle-tier cluster nodes. If you have clustered any of the products horizontally, see “Steps to Perform on Each Horizontal Cluster Node” in “Maintain a Horizontal Cluster Member” in [SAS 9.4 Administration: Middle-Tier Administration Guide](#).

## Contact SAS Technical Support

If you need assistance with the software or with the instructions in this guide, contact [SAS Technical Support](#).

## Appendix 1: Alternate Links for Downloads

If you are using a local copy of this document, rather than the recommended online version, then you can use the following links to download hot fixes and security updates.

### **Important**

Be sure to follow through this entire document to ensure that you have installed all of the applicable hot fixes and security updates. Also note that applying security updates that are not intended for your currently installed SAS release can jeopardize the integrity of your SAS installation.

### **SAS Security Update 2025-12-M9**

<https://tshf.sas.com/techsup/download/hotfix/HF2/security/sas-security-update-2025-12-M9/sas-security-update-2025-12-M9.zip>