



Knowledge Base Article #ETM57720

Upgrading to OpenSSH_9.6p1 on PolicyGuru® Solution v3.x Systems and ETM® CentOS7 UTA and SIP Proxy Appliances

Synopsis

This document describes the procedure to upgrade OpenSSH to OpenSSH_9.6p1. These instructions and RPMs are intended for use on CentOS 7.9.2009 systems running PolicyGuru® Solution v3.x, and on ETM® CentOS7 UTA and SIP Proxy Appliances.

Versions Affected

PolicyGuru® Solution v3.x and ETM® CentOS7 UTA and SIP Proxy Appliances

OpenSSH_9.6p1 Installation Instructions

Before you begin

Contact SecureLogix Technical Support to obtain a copy of the tarball containing the required OpenSSH_9.6p1 RPMs.

To upgrade OpenSSH on each component

1. Backup the **/etc/pam.d/sshd** file:

```
cp /etc/pam.d/sshd /root/pam.sshd.pre
```

2. Copy the **OpenSSH_9.6p1** tarball to the computer where the RPMs will be installed.
3. Un-tar the tarball.

```
[root@localhost ~]# tar zxvf openssh-9.6p2.rpms.tgz
./rpmbuild/RPMS/x86_64/openssh-9.6p1-1.el7.x86_64.rpm
./rpmbuild/RPMS/x86_64/openssh-askpass-9.6p1-1.el7.x86_64.rpm
./rpmbuild/RPMS/x86_64/openssh-askpass-gnome-9.6p1-1.el7.x86_64.rpm
./rpmbuild/RPMS/x86_64/openssh-clients-9.6p1-1.el7.x86_64.rpm
./rpmbuild/RPMS/x86_64/openssh-debuginfo-9.6p1-1.el7.x86_64.rpm
./rpmbuild/RPMS/x86_64/openssh-server-9.6p1-1.el7.x86_64.rpmsr zxvf
```

4. Change directories to the **/rpmbuild/RPMS/x86_64/** directory:

```
cd rpmbuild/RPMS/x86_64/
```

5. Install the RPMs:

```
yum localupdate *.rpm
```

6. Edit the **/etc/ssh/sshd_config** file to include the following changes:

- a. Use these values for the **hostkeyalgorithms**:

```
hostkeyalgorithms ssh-ed25519,ssh-ed25519-cert-v01@openssh.com,sk-ssh-
```



```
ed25519@openssh.com,sk-ssh-ed25519-cert-v01@openssh.com
```

- b. Ensure that this line is uncommented:

```
UsePAM yes
```

- c. Ensure that this line is uncommented:

```
PermitRootLogin yes
```

- d. Comment out the following lines:

```
#Ciphers aes256-ctr,aes192-ctr,aes128-ctr
```

```
#MACs hmac-sha2-512,hmac-sha2-256 124
```

```
#KexAlgorithms diffie-hellman-group-exchange-sha256
```

7. Edit the **/etc/pam.d/sshd** file to look like the following:

```
##%PAM-1.0

auth required pam_sepermit.so

auth include password-auth

# Used with polkit to reauthorize users in remote sessions

account required pam_nologin.so

account include password-auth

password include password-auth

# pam_selinux.so close should be the first session rule

session required pam_selinux.so close

session required pam_loginuid.so

# pam_selinux.so open should only be followed by session to be executed in
the user context

session required pam_selinux.so open env_params

#session required pam_namespace.so

session optional pam_keyinit.so force revoke

session include password-auth

#session include postlogin

# Used with polkit to reauthorized users in remote sessions

session optional pam_reauthorize.so prepare
```

8. Change the permissions on the **/etc/pam.d/sshd** file:

```
chmod 644 /etc/pam.d/sshd
```



9. **Generate a `ssh_host_dsa_key`:**

```
ssh-keygen -f /etc/ssh/ssh_host_ed25519_key -N '' -t ed25519
```

10. **Ensure that the key files in the `/etc/ssh` directory have permissions set to 600:**

```
chmod 600 *key
```

```
chmod 600 *.pub
```

```
chgrp ssh_keys /etc/ssh/*key
```

11. **Start and stop the `sshd.service`**

```
systemctl stop sshd.service
```

```
systemctl start sshd.service
```

12. **Repeat this procedure on each PolicyGuru Solution v3.x host platform in the deployment, or each ETM CentOS7 SIP Proxy or UTA Appliance in the deployment.**

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