Limited SFTP Access to analytics.tyks.fi

Document Author: arho.virkki@tyks.fi

Adding a new SFTP user

The *NEWUSER* and *ID_PUB* environment variables should match the new user account name and the corresponding OpenSSH public key file.

```
# Create user and add it to the 'sftp-only' group

NEWUSER=test1

sudo mkdir /var/sftp/$NEWUSER
sudo useradd $NEWUSER -d /$NEWUSER -M
sudo usermod $NEWUSER -aG sftp-only

# Copy a public key to .ssh/authorized_keys and set its permissions

ID_PUB=Key_Holder_Name.pub

sudo mkdir -p /var/sftp/$NEWUSER/.ssh
sudo cp $ID_PUB /var/sftp/$NEWUSER/.ssh/authorized_keys
sudo chmod og-rwx /var/sftp/$NEWUSER/.ssh
sudo chown $NEWUSER: -R /var/sftp/$NEWUSER
```

Prerequisites for the Setup

Adapted from: https://access.redhat.com/solutions/2399571

Add group for SFTP Users

```
sudo groupadd sftp-only
```

Create a home folder for the sftp users

```
sudo mkdir /var/sftp
```

Now modify /etc/ssh/sshd_config. Add sftp-only to allowed groups

```
AllowGroups <leave previous entries here and add => sftp-only
```

and add a Chroot rule

```
Match Group sftp-only
ChrootDirectory /var/sftp/
X11Forwarding no
AllowTcpForwarding no
ForceCommand internal-sftp -1 VERBOSE
AuthorizedKeysFile /var/sftp/%u/.ssh/authorized_keys
```

Finally, restart the ssh server

```
sudo systemctl restart sshd
```

Appendix: Useful Putty Commands

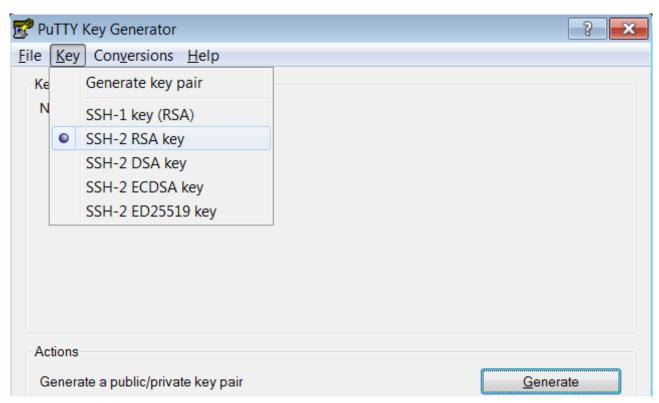
Convert Putty public key into OpenSSH format (ignoring the comment tag, unfortunately):

```
ssh-keygen -i -f Key_Holder_Name.puttypub > Key_Holder_Name.pub
```

Export OpenSSH public and private keys from Putty ppk file

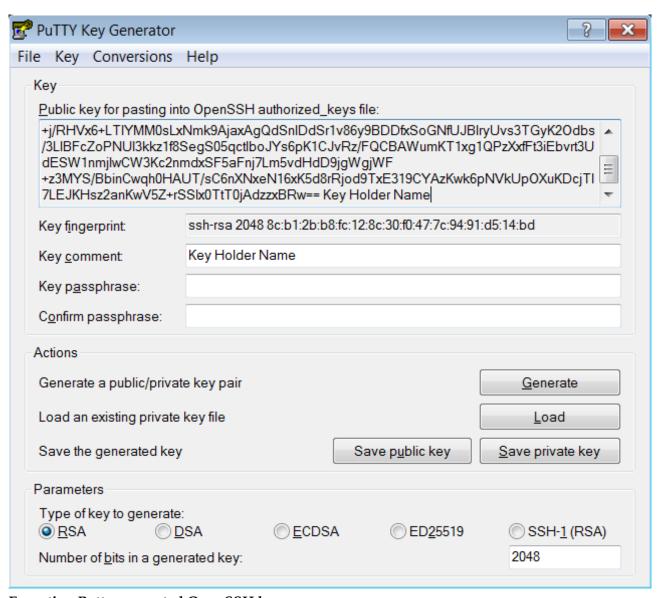
```
puttygen Key_Holder_Name.ppk -O public-openssh
puttygen Key_Holder_Name.ppk -O private-openssh -o Key_Holder_Name
```

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Generating keys in Putty.

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Exporting Putty-generated OpenSSH keys.

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