

### Info

[OpenSSH Homepage](#)

### Installation

**yum install openssh-server openssh-client openssh-askpass** Redhat Enterprise Linux

### Overview

**/etc/ssh/moduli** Diffie-Hellman groups used for the Diffie-Hellman key exchange

**/etc/ssh/ssh\_config** default SSH client configuration file

**/etc/ssh/sshd\_config** configuration file for the sshd daemon

**/etc/ssh/ssh\_host\_ecdsa\_key** ECDSA private key used by the sshd daemon

**/etc/ssh/ssh\_host\_ecdsa\_key.pub** ECDSA public key used by the sshd daemon

**/etc/ssh/ssh\_host\_rsa\_key** RSA private key used by the sshd daemon

**/etc/ssh/ssh\_host\_rsa\_key.pub** RSA public key used by the sshd daemon

**/etc/pam.d/sshd** PAM configuration file for the sshd daemon

**/etc/sysconfig/sshd** Configuration file for the sshd service

**~/.ssh/authorized\_keys** list of authorized public keys for servers

**~/.ssh/id\_ecdsa** ECDSA private key of the user

**~/.ssh/id\_ecdsa.pub** ECDSA public key of the user

**~/.ssh/id\_rsa** RSA private key of the user

### Overview (cont)

**~/.ssh/id\_rsa.pub** RSA public key of the user

**~/.ssh/known\_hosts** host keys of SSH servers accessed by the user

### Start

**systemctl start sshd.service** start the sshd daemon

**systemctl stop sshd.service** stop the running sshd daemon

**systemctl enable sshd.service** start the sshd daemon at boot

**/etc/systemd/system/sshd.service.d/local.conf [Unit]**

**Wants=network-online.target**

**After=network-online.target**

override default service unit for DHCP network

### SSH Daemon Configuration

**/etc/ssh/sshd\_config**

**PasswordAuthentication No** enforce key based authentication

**setsebool -P use\_nfs\_home\_dirs 1** use key based authentication with NFS-mounted home directory

**ssh-keygen -l -f**

**/etc/ssh/ssh\_host\_ecdsa\_key.pub** show remote server fingerprint

**ssh-keygen -l -f**

**/etc/ssh/ssh\_host\_ecdsa\_key.pub -EM md5** show remote server MD5 fingerprint

**/etc/ssh/sshd\_config**

**AllowTcpForwarding No** disable port forwarding

### SSH Client Configuration

**ssh-keygen -t rsa** generate RSA keypair

**ssh-copy-id user@host** copy the public RSA key to remote host

**ssh-keygen -t ecdsa** generate ECDSA keypair

**ssh-copy-id user@host** copy the public ECDSA key to remote host

**ssh-add** save passphrase for shell prompt

**ssh-keygen -R host** remove the key for the host

**ssh user@host command** execute a command on the remote machine

**scp /path/to/localfile**

**user@host:/path/to/remotefile** transfer a local file to a remote system

**scp /path/to/\* user@host:/path/to/\*** transfer a multiple files to a remote system

**scp user@host:/path/to/remotefile**

**/path/to/localfile** transfer a remote file to the local system

**sftp user@host** secure FTP to a remote system

**ls** list the content of remote directory

**cd** change remote working directory

**mkdir** create remote directory

**rmdir** remove remote directory

**put** transfer localfile to a remote machine

**get** transfer remotefile from a remote system

### Tips & Tricks

**ssh -Y user@host** open an X11 session over an SSH connection (X window system must be installed on remote system)

**ssh -L local-port:remote-hostname:remote-port user@host** create TCP/IP port forwarding channel



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