Cheatography

Openssh Cheat Sheet

by misterrabinhalder via cheatography.com/35799/cs/18865/

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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