1.1 SSH GENERAL Summary Name ssh without input password sshpass -p '<your-passwd>' ssh <username>@<ssh_host>, brew install sshpass Install sshd server apt-get install openssh, apt-get install openssh-server service sshd restart, systemctl reload sshd.service Restart sshd server Run ssh command ssh -o StrictHostKeyChecking=no -p 2702 root@172.17.0.8 date SSH with verbose ouptut ssh -vvv -p 2702 root@45.33.87.74 date 2>&1 Setup ssh tunnel for your web browsing sshuttle -r kubo@10.92.21.17 30.0.0.0/16 192.168.150.0/24 -e ... SSH passwordless login ssh-copy-id <username>@<ssh_host>, Or manually update ~/.ssh/authorized_keys Remove an entry from known_hosts file ssh-keygen -f ~/.ssh/known_hosts -R github.com Diff local file with remote one diff local_file.txt <(ssh <username>@<ssh_host> 'cat remote_file.txt') diff <(ssh user@remote_host 'cat file1.txt') <(ssh user2@remote_host2 'cat file2.txt')</pre> Diff two remote ssh files Upload with timestamps/permissions kept scp -rp /tmp/abc/ ec2-user@<ssh-host>:/root/ SSH agent load key exec ssh-agent bash && ssh-add /tmp/id_rsa, ssh-add SSH list all loaded key ssh-add -1 SSH agent create and load key exec ssh-agent bash && ssh-keygen, ssh-add Emacs read remote file with tramp emacs /ssh:<username>@<ssh_host>:/path/to/file ssh-keygen, ssh-keygen -C "your_email@example.com" -t rsa Generate a new key pair Generate key pair without interaction ssh-keygen -t rsa -f /tmp/sshkey -N "" -q 1.2 SSH ADVANCED Name Summary Add passphrase protection to ssh keyfile ssh-keygen -p -f id_rsa configure SSH to avoid trying all identity files ssh -o IdentitiesOnly=yes -i id1.key myuser@myserver.com Convert OpenSSL format to SSH-RSA format ssh-keygen -f my_ssh.pub -i Critical ssh files/folders ~/.ssh/authorized_keys, ~/.ssh/config, ~/.ssh/known_hosts SSH config file /etc/ssh/ssh_config, /etc/ssh/sshd_config SSH key file permission chmod 600 ~/.ssh/id_rsa SSH folder permission chmod 700 ~/.ssh, chown -R \$USER:\$USER ~/.ssh Authorized_{keys} file permission chmod 644 ~/.ssh/authorized_keys Mute Warning: Permanently added ssh -o LogLevel=error cheatsheet.do 1.3 SSH TUNNEL & SSH PROXY Summary Name SSH port forward to a local port ssh -N -i <ssh-keyfile> -f root@54.179.178.214 -L *:18085:localhost:8085 -n /bin/bash Reverse port forward to remote server ssh -R *:40099:localhost:22 root@54.179.178.214, ssh -p 40099 root@54.179.178.214 Setup ssh tunnel for your web browsing sshuttle -r kubo@10.92.21.17 30.0.0.0/16 192.168.111.0/24 192.168.150.0/24 192.167.0.0/24 1.4 SSH SECURITY Name Summary Disable ssh by password sed -i 's/PasswordAuthentication yes/PasswordAuthentication no/g' /etc/ssh/sshd_config Disable root login sed -i 's/^PermitRootLogin yes/#PermitRootLogin yes/' /etc/ssh/sshd_config Enable/Disable SSH Host Key Checking StrictHostKeyChecking yes change ~/.ssh/config Protect SSH server from brute force attacks fail2ban command line tool cheatsheet.de 1.5 SCP Name Summary Download a remote folder scp -r ec2-user@<ssh-host>:/home/letsencrypt-20180825 ./ Upload a file scp -i <ssh-keyfile> /tmp/hosts ec2-user@<ssh-host>:/root/ Upload a folder scp -r /tmp/abc/ ec2-user@<ssh-host>:/root/ Upload with timestamps/permissions kept scp -rp /tmp/abc/ ec2-user@<ssh-host>:/root/ Mount remote directory as local folder sshfs name@server:/path/remote_folder /path/local_folder 1.6 PARSE SSH LOG FILE Name Command Events of ssh down grep -R "ssh.*Received signal 15" /var/log/auth.log Events of ssh up grep -R "sshd.*Server listening" /var/log/auth.log grep -R "sshd.*Failed password for invalid user" /var/log/auth.log Events of ssh failed login Events of ssh break-in attemp grep -R "sshd.*POSSIBLE BREAK-IN ATTEMPT!" /var/log/auth.log Events of ssh port scap grep -R "sshd.*Bad protocol version identification" /var/log/auth.log Events of ssh login by public key grep -R "sshd.*Accepted publickey for" /var/log/auth.log grep -R "sshd.*Accepted password for" /var/log/auth.log Events of ssh login by password Events of ssh logout event grep -R "sshd.*pam_unix(sshd:session): session closed for" /var/log/auth.log 1.7 SSH TOOLS Name Summary Export local env to Internet ngrok.com Reverse ssh proxy sshuttle SSH by auto input password sshpass sshpass -p "\$PASSWORD" ssh -o StrictHostKeyChecking=no \$username@\$sship= 1.8 SCRIPTS Inject local key to remote ssh server server cat ~/.ssh/id_rsa.pub | ssh \$username@\$ssh_hostk "cat - >> ~/.ssh/authorized_key ssh \$username@\$ssh_hostk "cat ~/.ssh/authorized_keys" SSH Config file Host sandbox HostName 192.168.50.10 StrictHostKeyChecking no User root Host 192.168.1.* StrictHostKeyChecking no Port 32882 UserKnownHostsFile=/dev/null IdentityFile ~/.ssh/id_rsa · Use expect to run ssh command with credential auto input #!/usr/bin/expect set timeout 20 set command "cat /etc/hosts" set user "vagrant" set password "vagrant" set ip "192.168.50.10" spawn ssh -o stricthostkeychecking=no \$user@\$ip "\$command" expect "*password:*" send "\$password\r" expect eof; ssh reverse tunnel # https://www.howtoforge.com/reverse-ssh-tunneling autossh -M 40000 -p 2702 -i /home/denny/al -fN \ -o "PubkeyAuthentication=yes" \ -o "StrictHostKeyChecking=false" -o "PasswordAuthentication=no" \ -o "ServerAliveInterval 60" -o "ServerAliveCountMax 3" \

-R 123.57.240.189:29995:localhost:22 root@123.57.240.189

https://www.thegeekstuff.com/2008/11/3-steps-to-perform-ssh-login-without-password-using-ssh-keygen-ssh-copy-id

https://neverendingsecurity.wordpress.com/2015/04/07/ssh-cheatsheet/

http://patrickward.com/cheatsheets/2015/02/16/ssh-cheatsheet/

https://gist.github.com/CodyKochmann/166833b3b31cdb936d69

https://bitrot.sh/cheatsheet/13-12-2017-ssh-cheatsheet/

http://pentestmonkey.net/cheat-sheet/ssh-cheat-sheet

1.9 MORE RESOURCES

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