1 SSH CheatSheet Tools

• PDF Link: cheatsheet-ssh-A4.pdf

• Blog URL: https://cheatsheet.dennyzhang.com/cheatsheet-ssh-A4

• Category: tools

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# 1.1 ssh general

Name	Summary
run ssh command by muting host key check	ssh -o StrictHostKeyChecking=no root@192.168.75.109 date
ssh tunnel	ssh -N -p 22 -i <ssh-keyfile> -f root@172.17.0.8 -L *:18085:localhost</ssh-keyfile>
ssh agent load key	exec ssh-agent bash && ssh-keygen, ssh-add
generate a new key pair	ssh-keygen, ssh-keygen -C "your_email@example.com" -t rsa
generate a new key pair without interaction	ssh-keygen -t rsa -f /tmp/sshkey -N "" -q
fail2ban	protect SSH server from brute force attacks

# 1.2 advanced ssh

Name	Summary
Diff local file with remote ssh file	<pre>diff local_file.txt &lt;(ssh user@remote_host 'cat remote_file.txt')</pre>
Diff two remote ssh files	<pre>diff &lt;(ssh user@remote_host 'cat remote_file.txt') &lt;(ssh user2@remote_host2 'cat')</pre>

## 1.3 ssh security

Summary
sed -i 's/PasswordAuthentication yes/PasswordAuthentication no/g' /etc/s
<pre>sed -i 's/^PermitRootLogin yes/#PermitRootLogin yes/' /etc/ssh/sshd_conf</pre>
StrictHostKeyChecking yes change ~/.ssh/config
ssh-keygen -p -f id_rsa link: Manage SSH Key File With Passphrase

## 1.4 scp

Name	Summary
Download remote folder	<pre>scp -r -i <ssh-keyfile> ec2-user@<ssh-host>:/home/letsencrypt-20180825 ./</ssh-host></ssh-keyfile></pre>

#### 1.5 parse ssh log

Name	Command
ssh down	grep -R "ssh.*Received signal 15" /var/log/auth.log
ssh up	<pre>grep -R "sshd.*Server listening" /var/log/auth.log</pre>
ssh failed login	<pre>grep -R "sshd.*Failed password for invalid user" /var/log/auth.log</pre>
ssh break-in attemp	<pre>grep -R "sshd.*POSSIBLE BREAK-IN ATTEMPT!" /var/log/auth.log</pre>
ssh port scap	<pre>grep -R "sshd.*Bad protocol version identification" /var/log/auth.log</pre>
ssh login by public key	<pre>grep -R "sshd.*Accepted publickey for" /var/log/auth.log</pre>
ssh login by password	<pre>grep -R "sshd.*Accepted password for" /var/log/auth.log</pre>
ssh logout event	<pre>grep -R "sshd.*pam_unix(sshd:session): session closed for" /var/log/auth.log</pre>

# 1.6 Common Config

• Inject ssh public key

echo "ssh-rsa AAA...0r contact@dennyzhang.com" >> ~/.ssh/authorized\_keys

• Define ssh alias

Updated: September 5, 2018

```
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
   • Turn off host key checking for all hosts
# In ~/.ssh/config or /etc/ssh/ssh_config
Host *
    StrictHostKeyChecking no
   • 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 \setminus
    -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
```

#### 1.7 More Resources

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