

Assignment (class 8)

Server 1

```
[ec2-user@ip-172-31-21-22:~] ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/home/ec2-user/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/ec2-user/.ssh/id_rsa
Your public key has been saved in /home/ec2-user/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:zEj89dQGVkOHVc2nsh3sna/TJ0l+zGGUCgRpIFKYIs ec2-user@ip-172-31-21-22.ec2
/internal
The key's randomart image is:
+---[RSA 3072]----+
| o . ...o 0+++=|
| o .. o + . 0++|
| E.. oo ~ . +.. |
| . . =.. o .00 |
| . .S .0++|
| o o=o |
| o oo=o |
| . =B |
| ...o=|
+---[SHA256]-----+
```

```
[ec2-user@ip-172-31-21-22 ~]$ cd ~/.ssh
[ec2-user@ip-172-31-21-22 .ssh]$ ls -lrt
total 12
-rw-----. 1 ec2-user ec2-user 393 Feb 22 10:41 authorized_keys
-rw-r--r--. 1 ec2-user ec2-user 591 Feb 22 10:49 id_rsa.pub
-rw-----. 1 ec2-user ec2-user 2635 Feb 22 10:49 id_rsa
```

Server 2

```
[test-user1@ip-172-31-30-250:~] ls
id_rsa.pub
[test-user1@ip-172-31-30-250:~] ls -la
total 20
drwx-----. 2 test-user1 test-user1 101 Feb 22 11:18 .
drwxr-xr-x. 4 root root 40 Feb 22 10:46 ..
-rw-----. 1 test-user1 test-user1 32 Feb 22 11:11 .bash_history
-rw-r--r--. 1 test-user1 test-user1 18 Jan 28 2023 .bash_logout
-rw-r--r--. 1 test-user1 test-user1 141 Jan 28 2023 .bash_profile
-rw-r--r--. 1 test-user1 test-user1 492 Jan 28 2023 .bashrc
-rw-r--r--. 1 test-user1 test-user1 591 Feb 22 11:18 id_rsa.pub
[test-user1@ip-172-31-30-250:~] $ mkdir ~/.ssh
[test-user1@ip-172-31-30-250:~] chmod 700 ~/.ssh
[test-user1@ip-172-31-30-250:~] cat ~id_rsa.pub >> ~/.ssh/authorized_keys
[test-user1@ip-172-31-30-250:~] chmod 600 ~/.ssh/authorized_keys
[test-user1@ip-172-31-30-250:~] $ rm id_rsa.pub
[test-user1@ip-172-31-30-250:~] ls -lta
total 16
0 drwx-----. 3 test-user1 test-user1 95 Feb 22 11:20 .
0 drwxr-xr-x. 4 root root 40 Feb 22 10:46 ..
4 -rw-----. 1 test-user1 test-user1 32 Feb 22 11:11 .bash_history
4 -rw-r--r--. 1 test-user1 test-user1 18 Jan 28 2023 .bash_logout
4 -rw-r--r--. 1 test-user1 test-user1 141 Jan 28 2023 .bash_profile
4 -rw-r--r--. 1 test-user1 test-user1 492 Jan 28 2023 .bashrc
0 drwx-----. 2 test-user1 test-user1 29 Feb 22 11:19 .ssh
[test-user1@ip-172-31-30-250:~] cat .ssh/authorized_keys
ssh-rsa AAAAB3NzaC1yc2EAAADQABAAgOCZUAbXMGAFPALeEntd2wFDWBvTsyj63Z
JBrLkd57mJ8eshu9LZj6pMHPnAglOf+5P5uhYKwC4bQEQ3dp14DFdw067OpjhntiLloHh
i1lr/BvnerOLDnWaku8KTOygedC/vNB2ka70RXXtpzAwOpQwoay0950G+5SZwH/0041m7N
YgIAVOGxsPw/8fjmMrKa+f7hfNDmrqgb9RtgAwiclnhj1BMiAKGFdaer4piwy1Yxox1usB
4yWIWwjfwFn2mXbeixFaQwgnc08fei6hdpbYxs3dPqVsFZnOPmummveKxhsy8uTDh4nCK
DRS/IFVu+fmX/6hr+hjdh+Q79jea/tp27FjI0JpmctpWitczwLSOHJWvY9nvsHDUzsji2A
HadVJEo/z+gKdAKtQs0oi1wiM6csxPLMEqbJ1lo6ww8v1gueVuenM= ec2-user@ip-172
/internal
[test-user1@ip-172-31-30-250:~] |
```

```
[test-user1@ip-172-31-21-22:~] sudo scp /home/ec2-user/.ssh/id_rsa.pub test-user1@172.31.30.250:~
The authenticity of host '172.31.30.250 (172.31.30.250)' can't be established.
ED25519 key fingerprint is SHA256:a/HPm7rDONOBTX/wCuzyhbDsYK8kjPGqKiBGxf3F4qM.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '172.31.30.250' (ED25519) to the list of known hosts.
test-user1@172.31.30.250's password:
id_rsa.pub                                              100% 591      1.3MB/s   00:00
[ec2-user@ip-172-31-21-22 .ssh]$
```

Logged into server 2 via server 1

```
[ec2-user@ip-172-31-21-22 .ssh]$ ssh test-user1@172.31.30.250
The authenticity of host '172.31.30.250 (172.31.30.250)' can't be established.
ED25519 key fingerprint is SHA256:a/HPm7rDONOBTX/wCuzyhbDsYK8kjPGqKiBGxf3F4qM.
This host key is known by the following other names/addresses:
  ~/.ssh/known_hosts:1: 34.227.205.109
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '172.31.30.250' (ED25519) to the list of known hosts.

#_
~\ _ #####_          Amazon Linux 2023
~~ \_\#####\_
~~ \_\#\#\#
~~ \_\#/ \_\_ https://aws.amazon.com/linux/amazon-linux-2023
~~ \_\_.. \_\_/
~~ \_\_/\_\_/
~~ \_\_/\_\_/
Last login: Sun Feb 22 11:14:30 2026
[test-user1@ip-172-31-30-250 ~]$ |
```