

AVALIAÇÃO 04

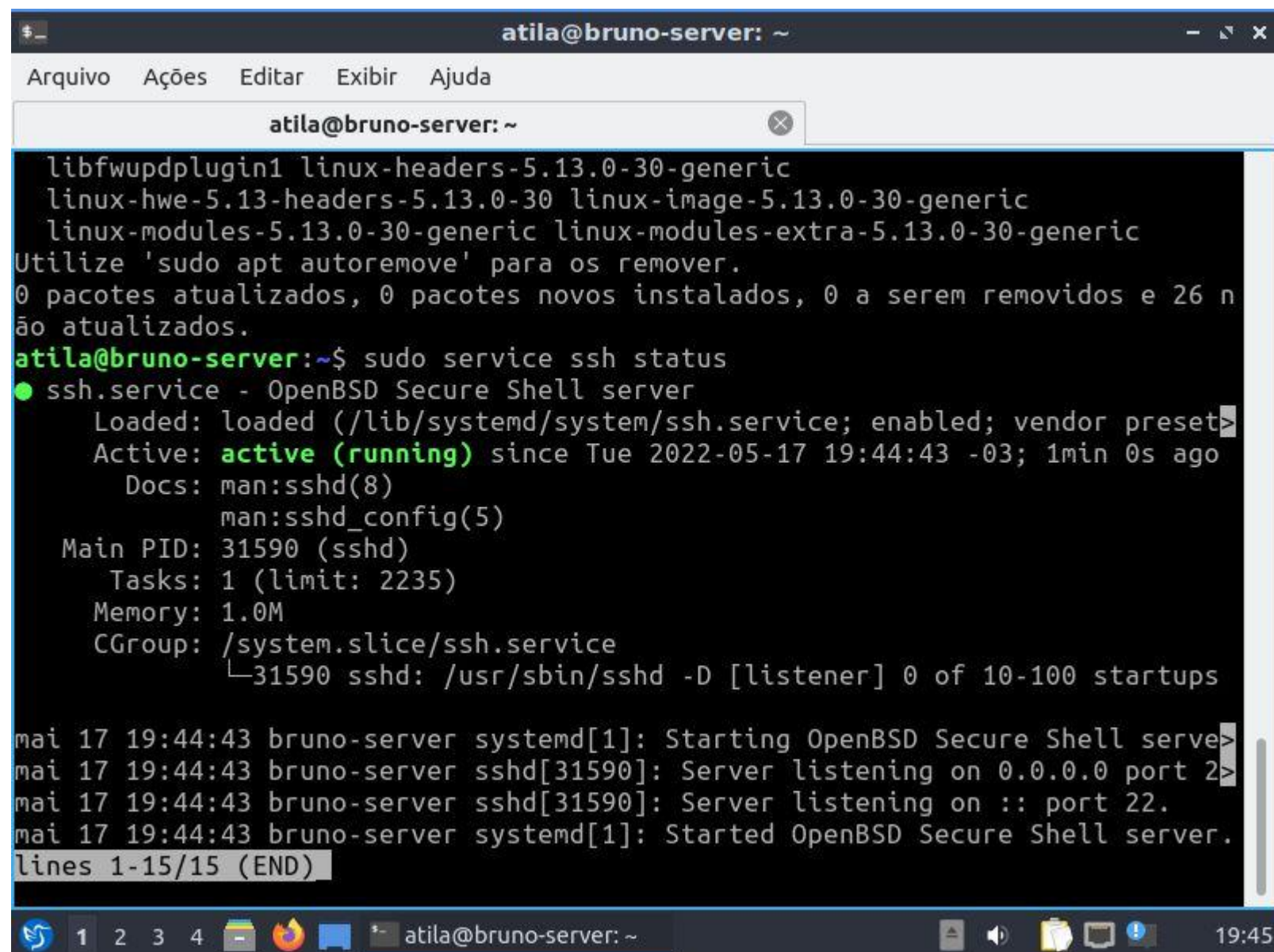
ATIVIDADE DE SISTEMAS OPERACIONAIS DE REDES 2

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ALUNO : ÁTILA OLIVEIRA DE ALMEIDA

TURMA : P8 DE INFORMÁTICA

A) Instalar o Openssh server em uma maquina virtual Linux :



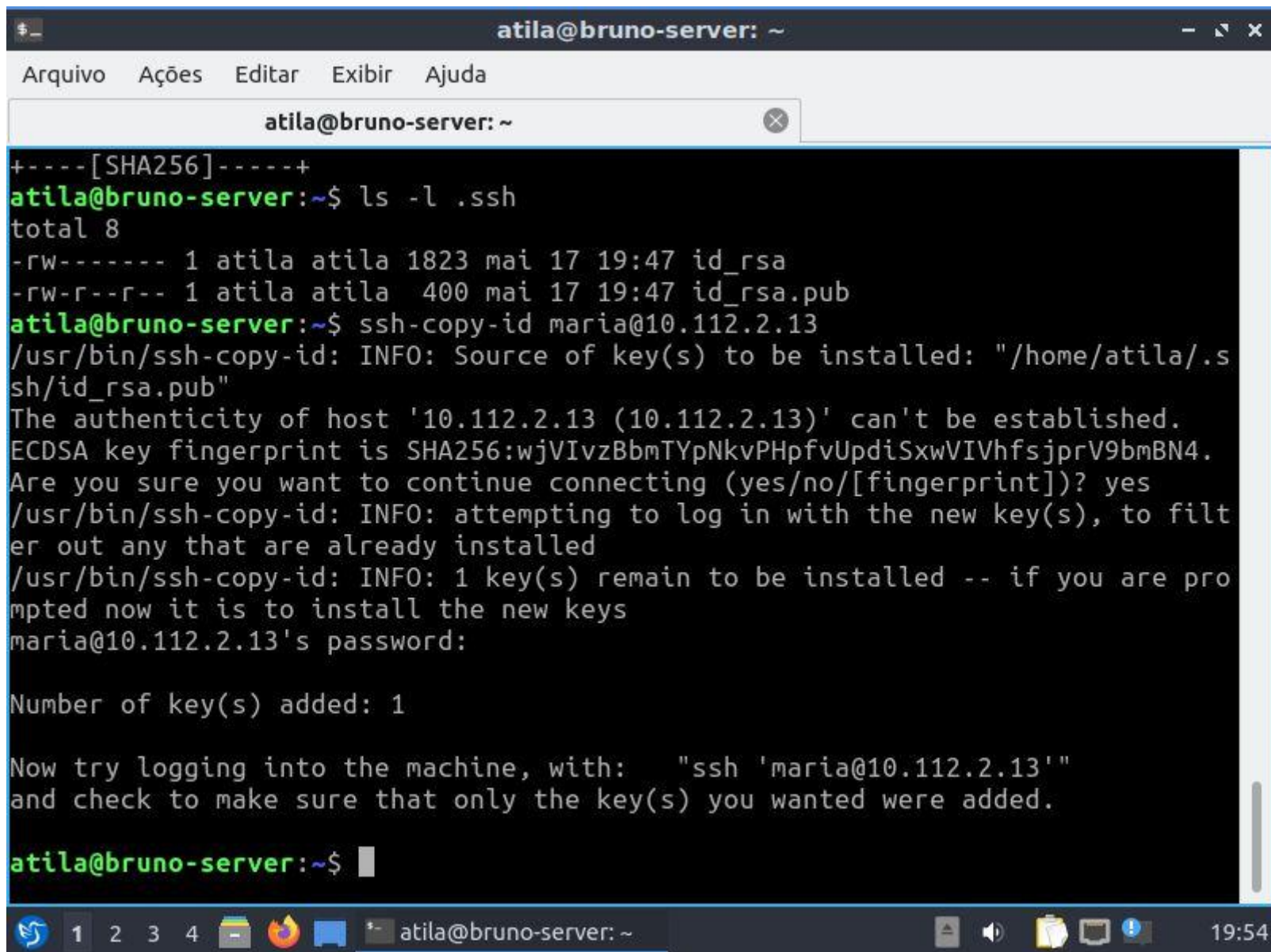
```
atila@bruno-server: ~  
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atila@bruno-server: ~  
libfwupdplugin1 linux-headers-5.13.0-30-generic  
linux-hwe-5.13-headers-5.13.0-30 linux-image-5.13.0-30-generic  
linux-modules-5.13.0-30-generic linux-modules-extra-5.13.0-30-generic  
Utilize 'sudo apt autoremove' para os remover.  
0 pacotes atualizados, 0 pacotes novos instalados, 0 a serem removidos e 26 n  
ão atualizados.  
atila@bruno-server:~$ sudo service ssh status  
● ssh.service - OpenBSD Secure Shell server  
   Loaded: loaded (/lib/systemd/system/ssh.service; enabled; vendor preset  
   Active: active (running) since Tue 2022-05-17 19:44:43 -03; 1min 0s ago  
     Docs: man:sshd(8)  
           man:sshd_config(5)  
  Main PID: 31590 (sshd)  
    Tasks: 1 (limit: 2235)  
   Memory: 1.0M  
    CGroup: /system.slice/ssh.service  
            └─31590 sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups  
  
mai 17 19:44:43 bruno-server systemd[1]: Starting OpenBSD Secure Shell serve  
mai 17 19:44:43 bruno-server sshd[31590]: Server listening on 0.0.0.0 port 2  
mai 17 19:44:43 bruno-server sshd[31590]: Server listening on :: port 22.  
mai 17 19:44:43 bruno-server systemd[1]: Started OpenBSD Secure Shell server.  
lines 1-15/15 (END)
```

B) Criar um par de chaves (Publica/Privada) :

```
atila@bruno-server: ~
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atila@bruno-server: ~
atila@bruno-server:~$ ssh-keygen -b 2048
Generating public/private rsa key pair.
Enter file in which to save the key (/home/atila/.ssh/id_rsa):
Created directory '/home/atila/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/atila/.ssh/id_rsa
Your public key has been saved in /home/atila/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:sGdL02MavccIpuUdLCHMsQVwpsok3b+PJYluNaziCrg atila@bruno-server
The key's randomart image is:
+---[RSA 2048]---+
|      ..=..      |
|      . . * +     |
|      . o o * .    |
|      + . . + =    |
|      o  .o S B    |
|      .  .+@ X *   |
|      o  .o=. = + o |
|      ....o  = .   |
|      Eo.o. . .    |
+---[SHA256]-----+
atila@bruno-server:~$
```

```
atila@bruno-server: ~
Arquivo  Ações  Editar  Exibir  Ajuda
atila@bruno-server: ~
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/atila/.ssh/id_rsa
Your public key has been saved in /home/atila/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:sGdL02MavccIpuUdLCHMsQVwpsok3b+PJYluNaziCrg atila@bruno-server
The key's randomart image is:
+---[RSA 2048]---+
|      ..=..      |
|      . . * +     |
|      . o o * .    |
|      + . . + =    |
|      o  .o S B    |
|      .  .+@ X *   |
|      o  .o=. = + o |
|      ....o  = .   |
|      Eo.o. . .    |
+---[SHA256]-----+
atila@bruno-server:~$ ls -l .ssh
total 8
-rw----- 1 atila atila 1823 mai 17 19:47 id_rsa
-rw-r--r-- 1 atila atila  400 mai 17 19:47 id_rsa.pub
atila@bruno-server:~$
```

C) Copiar a chave pública em uma maquina virtual que está executando o Openssh Server :



```
atila@bruno-server: ~
Arquivo  Ações  Editar  Exibir  Ajuda
atila@bruno-server: ~
+----[SHA256]-----+
atila@bruno-server:~$ ls -l .ssh
total 8
-rw----- 1 atila atila 1823 mai 17 19:47 id_rsa
-rw-r--r-- 1 atila atila  400 mai 17 19:47 id_rsa.pub
atila@bruno-server:~$ ssh-copy-id maria@10.112.2.13
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/atila/.ssh/id_rsa.pub"
The authenticity of host '10.112.2.13 (10.112.2.13)' can't be established.
ECDSA key fingerprint is SHA256:wjVIvzBbmTYpNkvPHpfvUpdiSxwVIVhfsjprV9bmBN4.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new keys
maria@10.112.2.13's password:

Number of key(s) added: 1

Now try logging into the machine, with:  "ssh 'maria@10.112.2.13'"
and check to make sure that only the key(s) you wanted were added.

atila@bruno-server:~$
```

D) Ping :


```
atila@bruno-server: ~
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atila@bruno-server: ~
atila@bruno-server:~$ ping 10.112.2.13
PING 10.112.2.13 (10.112.2.13) 56(84) bytes of data.
64 bytes de 10.112.2.13: icmp_seq=1 ttl=64 tempo=1.03 ms
64 bytes de 10.112.2.13: icmp_seq=2 ttl=64 tempo=1.26 ms
64 bytes de 10.112.2.13: icmp_seq=3 ttl=64 tempo=1.02 ms
64 bytes de 10.112.2.13: icmp_seq=4 ttl=64 tempo=1.22 ms
64 bytes de 10.112.2.13: icmp_seq=5 ttl=64 tempo=1.24 ms
64 bytes de 10.112.2.13: icmp_seq=6 ttl=64 tempo=1.18 ms
64 bytes de 10.112.2.13: icmp_seq=7 ttl=64 tempo=1.45 ms
64 bytes de 10.112.2.13: icmp_seq=8 ttl=64 tempo=1.28 ms
64 bytes de 10.112.2.13: icmp_seq=9 ttl=64 tempo=1.25 ms
64 bytes de 10.112.2.13: icmp_seq=10 ttl=64 tempo=1.23 ms
64 bytes de 10.112.2.13: icmp_seq=11 ttl=64 tempo=1.22 ms
64 bytes de 10.112.2.13: icmp_seq=12 ttl=64 tempo=1.21 ms
64 bytes de 10.112.2.13: icmp_seq=13 ttl=64 tempo=1.22 ms
64 bytes de 10.112.2.13: icmp_seq=14 ttl=64 tempo=1.24 ms
64 bytes de 10.112.2.13: icmp_seq=15 ttl=64 tempo=1.22 ms
64 bytes de 10.112.2.13: icmp_seq=16 ttl=64 tempo=1.26 ms
64 bytes de 10.112.2.13: icmp_seq=17 ttl=64 tempo=1.20 ms
64 bytes de 10.112.2.13: icmp_seq=18 ttl=64 tempo=1.16 ms
64 bytes de 10.112.2.13: icmp_seq=19 ttl=64 tempo=0.996 ms
^C
--- 10.112.2.13 estatísticas de ping ---
```