

IFCE

TECNOLOGIA EM TELEMÁTICA

ADMINISTRAÇÃO DE SISTEMA DE REDES

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### AVALIAÇÃO 03

```
alenior@aleniorserver:~$ sudo dpkg -l | less | grep ssh
[sudo] password for alenior:
ii  libssh-4:amd64          0.9.6-2ubuntu0.22.04.1      amd64      tiny
C SSH library (OpenSSL flavor)
ii  openssh-client          1:8.9p1-3ubuntu0.3          amd64      secur
e shell (SSH) client, for secure access to remote machines
ii  openssh-server          1:8.9p1-3ubuntu0.3          amd64      secur
e shell (SSH) server, for secure access from remote machines
ii  openssh-sftp-server     1:8.9p1-3ubuntu0.3          amd64      secur
e shell (SSH) sftp server module, for SFTP access from remote machines
ii  ssh-import-id           5.11-0ubuntu1              all        secur
ely retrieve an SSH public key and install it locally
alenior@aleniorserver:~$ sudo systemctl status ssh
• ssh.service - OpenBSD Secure Shell server
   Loaded: loaded (/lib/systemd/system/ssh.service; enabled; vendor preset: enabled)
   Active: active (running) since Thu 2023-08-24 23:22:15 UTC; 3min 19s ago
     Docs: man:sshd(8)
           man:sshd_config(5)
  Process: 682 ExecStartPre=/usr/sbin/sshd -t (code=exited, status=0/SUCCESS)
 Main PID: 732 (sshd)
    Tasks: 1 (limit: 4557)
   Memory: 4.4M
      CPU: 138ms
  CGroup: /system.slice/ssh.service
          └─732 "sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups"

ago 24 23:22:10 aleniorserver systemd[1]: Starting OpenBSD Secure Shell server...
ago 24 23:22:15 aleniorserver sshd[732]: Server listening on 0.0.0.0 port 22.
ago 24 23:22:15 aleniorserver sshd[732]: Server listening on :: port 22.
ago 24 23:22:15 aleniorserver systemd[1]: Started OpenBSD Secure Shell server.
alenior@aleniorserver:~$
```

```
[*] udisks2.service
[ ] unattended-upgrades.service
[ ] user@1000.service
```

<Ok>

<Cancel>

```
systemctl restart irqbalance.service multipathd.service packagekit.service polkit.service rsyslog.s
ervice ssh.service systemd-timesyncd.service systemd-udev.service udisks2.service
```

Service restarts being deferred:

```
systemctl restart ModemManager.service
/etc/needrestart/restart.d/dbus.service
systemctl restart networkd-dispatcher.service
systemctl restart systemd-logind.service
systemctl restart unattended-upgrades.service
systemctl restart user@1000.service
```

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.

```
alenior@aleniorserver:~$ sudo apt install openssh-server
```

```
[sudo] password for alenior:
```

A ler as listas de pacotes... Pronto

A construir árvore de dependências... Pronto

A ler a informação de estado... Pronto

openssh-server is already the newest version (1:8.9p1-3ubuntu0.3).

openssh-server está definido para ser instalado manualmente.

0 pacotes actualizados, 0 pacotes novos instalados, 0 a remover e 0 não actualizados.

```
alenior@aleniorserver:~$ _
```

```
alenior@aleniorserver:~$ ssh-keygen -t rsa
```

Generating public/private rsa key pair.

Enter file in which to save the key (/home/alenior/.ssh/id\_rsa):

/home/alenior/.ssh/id\_rsa already exists.

Overwrite (y/n)? y

Enter passphrase (empty for no passphrase):

Enter same passphrase again:

Your identification has been saved in /home/alenior/.ssh/id\_rsa

Your public key has been saved in /home/alenior/.ssh/id\_rsa.pub

The key fingerprint is:

SHA256:QcNMHmAGMbQpXjPom0xjx0W4cQqa50oEdg0oQh+9tv8 alenior@aleniorserver

The key's randomart image is:

+---[RSA 3072]-----+

```
|...+*o+==|
|o...+B ooo|
|+.o+*.. o|
|==o = .|
|+Boo. . S|
|*.= .|
|oB. .|
|oo. .|
|... .E|
```

+---[SHA256]-----+

```
alenior@aleniorserver:~$ cat /home/alenior/.ssh/id_rsa.pub
```

cat: /home/alenior/: Is a directory

```
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQgQDM6kBgCiXhYPWEzWnG3u0q8FAc2Vhz+HqnoPL3ptGw00t06620yCCd/G6/tNno
6kyrgMVP7RadWqM0JSy9ULNPmfYZdsS2YzNV0XD7IA0GMK2juK4eXHaTwRBKagrVFg1j4qk5c2YV1eyNNcs6Hzz0b0Fp92H07aPv
21BHj6wMMm06cq6krquz86fy80uYd0R0wcteJ915VSvfAuBXmTTLcbtt3H29csfQWwSLTuGwnolG33ro4PHpQERY/a2ru9pMtrRhk
azy2juWxAh8pTeDtKcU72IGCW0bTS4YrQEFUgdy7NPN2oGnM250GuQMBoo4Ewsh0NvtTWtI0bznTyy7e00aM+2CMUz2msBFU7WM5
UVmx1Fq1CsvSpdUpR/uu1TpDDosf07c0aTlgGIVGzhGckbgfn1E0irsj8hofxRJiAAGL1BDMxdg/UHRGEu2WsJMTXid74chB+kil
ikSAXwPMHNFYD0pcDGIFv+IRomb6t9ySSJFCJ1XSNGo/4EvhVM8= alenior@aleniorserver
```

```
alenior@aleniorserver:~$
```

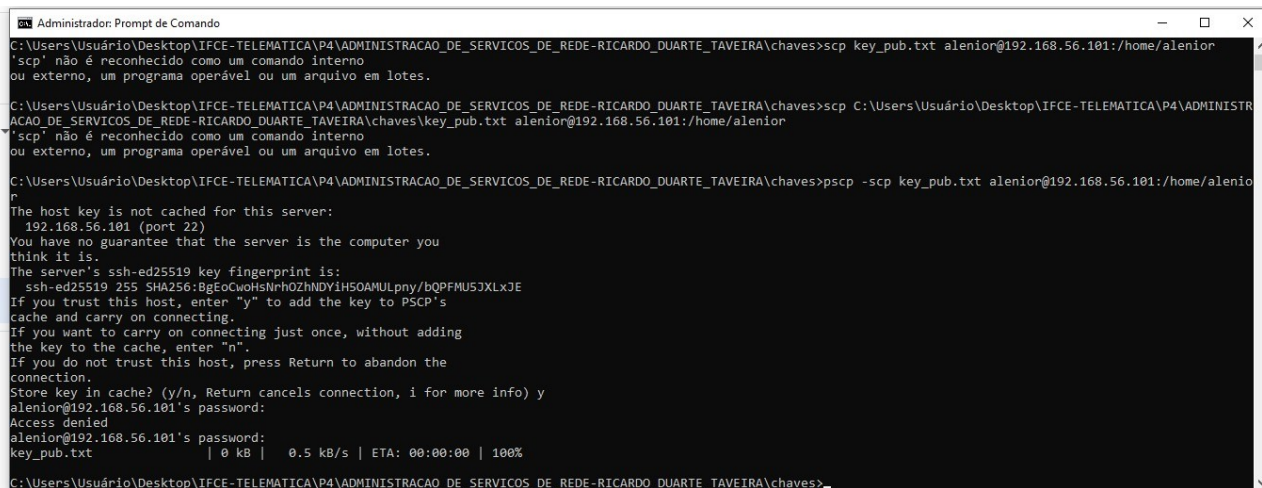
```

alenior@aleniorserver:~$ ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
    inet 192.168.56.101  netmask 255.255.255.0  broadcast 192.168.56.255
    inet6 fe80::a00:27ff:fe9b:d0e2  prefixlen 64  scopeid 0x20<link>
    ether 08:00:27:9b:d0:e2  txqueuelen 1000  (Ethernet)
    RX packets 57  bytes 13056 (13.0 KB)
    RX errors 0  dropped 0  overruns 0  frame 0
    TX packets 65  bytes 8931 (8.9 KB)
    TX errors 0  dropped 0  overruns 0  carrier 0  collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
    inet 127.0.0.1  netmask 255.0.0.0
    inet6 ::1  prefixlen 128  scopeid 0x10<host>
    loop txqueuelen 1000  (Local Loopback)
    RX packets 22320  bytes 1587744 (1.5 MB)
    RX errors 0  dropped 0  overruns 0  frame 0
    TX packets 22320  bytes 1587744 (1.5 MB)
    TX errors 0  dropped 0  overruns 0  carrier 0  collisions 0

alenior@aleniorserver:~$ pwd
/home/aleniior
alenior@aleniorserver:~$ ls
key_pub.txt
alenior@aleniorserver:~$ cat key_pub.txt
---- BEGIN SSH2 PUBLIC KEY ----
Comment: "rsa-key-20230823"
AAAAB3NzaC1yc2EAAAADAQABAAQCAk8p82k4zxud8xF1c+phgRjqWukBZx2HI
9iWHwg3t4b4iovgcvu5NEIASwvzi+z1AYGPWmtPBORCZRpVoDdpdp4yF+kLxxs1g
GF4ouswIIi12x2tBvgg3fIemfLjnYjD0crN9pgF6FKigf0r8ZiYKJ2p+yNtnfjI2
9/ofn7tpBpa09aj8UmM6Xl1P1fgAhP3tUDuXvii/gZeKY94E7JS1eAXF7cAnJbUL
5W9mavFmIxS59Ef7aerFiWaPm+xlopjcp2Q7ts7+I4DCjcJBMAuYRhQ5SpDf1ZkG
EmRUKPyHaf1UhEssy000gX8er9XXTyK1N/r9wLi77xFLRh7acezd
---- END SSH2 PUBLIC KEY ----
alenior@aleniorserver:~$

```



```

Administrador: Prompt de Comando
C:\Users\Usuário\Desktop\IFCE-TELEMATICA\P4\ADMINISTRACAO_DE_SERVICOS_DE_REDE-RICARDO_DUARTE_TAVEIRA\chaves>scp key_pub.txt alenior@192.168.56.101:/home/aleniior
'scp' não é reconhecido como um comando interno
ou externo, um programa operável ou um arquivo em lotes.

C:\Users\Usuário\Desktop\IFCE-TELEMATICA\P4\ADMINISTRACAO_DE_SERVICOS_DE_REDE-RICARDO_DUARTE_TAVEIRA\chaves>scp C:\Users\Usuário\Desktop\IFCE-TELEMATICA\P4\ADMINISTRACAO_DE_SERVICOS_DE_REDE-RICARDO_DUARTE_TAVEIRA\chaves\key_pub.txt alenior@192.168.56.101:/home/aleniior
'scp' não é reconhecido como um comando interno
ou externo, um programa operável ou um arquivo em lotes.

C:\Users\Usuário\Desktop\IFCE-TELEMATICA\P4\ADMINISTRACAO_DE_SERVICOS_DE_REDE-RICARDO_DUARTE_TAVEIRA\chaves>pscp -scp key_pub.txt alenior@192.168.56.101:/home/aleniior
The host key is not cached for this server:
  192.168.56.101 (port 22)
You have no guarantee that the server is the computer you
think it is.
The server's ssh-ed25519 key fingerprint is:
  ssh-ed25519 255 SHA256:BgEoCwoHsNrHOZHNDYiH5OAMULpny/bQPFMU5JXLXJE
If you trust this host, enter "y" to add the key to PSCP's
cache and carry on connecting.
If you want to carry on connecting just once, without adding
the key to the cache, enter "n".
If you do not trust this host, press Return to abandon the
connection.
Store key in cache? (y/n, Return cancels connection, i for more info) y
alenior@192.168.56.101's password:
Access denied
alenior@192.168.56.101's password:
key_pub.txt      | 0 KB |   0.5 kB/s | ETA: 00:00:00 | 100%
C:\Users\Usuário\Desktop\IFCE-TELEMATICA\P4\ADMINISTRACAO_DE_SERVICOS_DE_REDE-RICARDO_DUARTE_TAVEIRA\chaves>

```

```
aleni@aleni@aleni@aleni: ~  
aleni@aleni:~$ ssh aleni@aleni@aleni:~  
Using username "aleni".  
Server refused our key  
aleni@aleni:~$ ssh aleni@192.168.56.101's password:  
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 5.15.0-79-generic x86_64)  
  
 * Documentation:  https://help.ubuntu.com  
 * Management:    https://landscape.canonical.com  
 * Support:       https://ubuntu.com/advantage  
  
System information as of qua 30 ago 2023 00:46:27 UTC  
  
System load:  0.0      Processes:    112  
Usage of /:   56.9% of 11.21GB    Users logged in: 1  
Memory usage: 6%      IPv4 address for enp0s3: 192.168.56.101  
Swap usage:   0%  
  
Manutenção de Segurança Expandida para Applications não está ativa.  
0 as atualizações podem ser aplicadas imediatamente.  
  
Ativar ESM Apps para poder receber possíveis futuras atualizações de segurança.  
Consulte https://ubuntu.com/esm ou execute: sudo pro status  
  
Failed to connect to https://changelogs.ubuntu.com/meta-release-lts. Check your  
Internet connection or proxy settings  
  
Last login: Tue Aug 29 23:16:16 2023  
aleni@aleni@aleni:~$
```

```
aleni@aleni@aleni@aleni: ~  
aleni@aleni:~$ ssh aleni@aleni@aleni:~  
Using username "aleni".  
Server refused our key  
aleni@aleni:~$ ssh aleni@192.168.56.101's password:  
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 5.15.0-79-generic x86_64)  
  
 * Documentation:  https://help.ubuntu.com  
 * Management:    https://landscape.canonical.com  
 * Support:       https://ubuntu.com/advantage  
  
System information as of qua 30 ago 2023 00:46:27 UTC  
  
System load:  0.0      Processes:    112  
Usage of /:   56.9% of 11.21GB    Users logged in: 1  
Memory usage: 6%      IPv4 address for enp0s3: 192.168.56.101  
Swap usage:   0%  
  
Manutenção de Segurança Expandida para Applications não está ativa.  
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Ativar ESM Apps para poder receber possíveis futuras atualizações de segurança.  
Consulte https://ubuntu.com/esm ou execute: sudo pro status  
  
Failed to connect to https://changelogs.ubuntu.com/meta-release-lts. Check your  
Internet connection or proxy settings  
  
Last login: Tue Aug 29 23:16:16 2023  
aleni@aleni@aleni:~$ cd /home/aleni  
aleni@aleni@aleni:~$ ls  
key.pub.txt  
aleni@aleni@aleni:~$
```