

Atividade-02

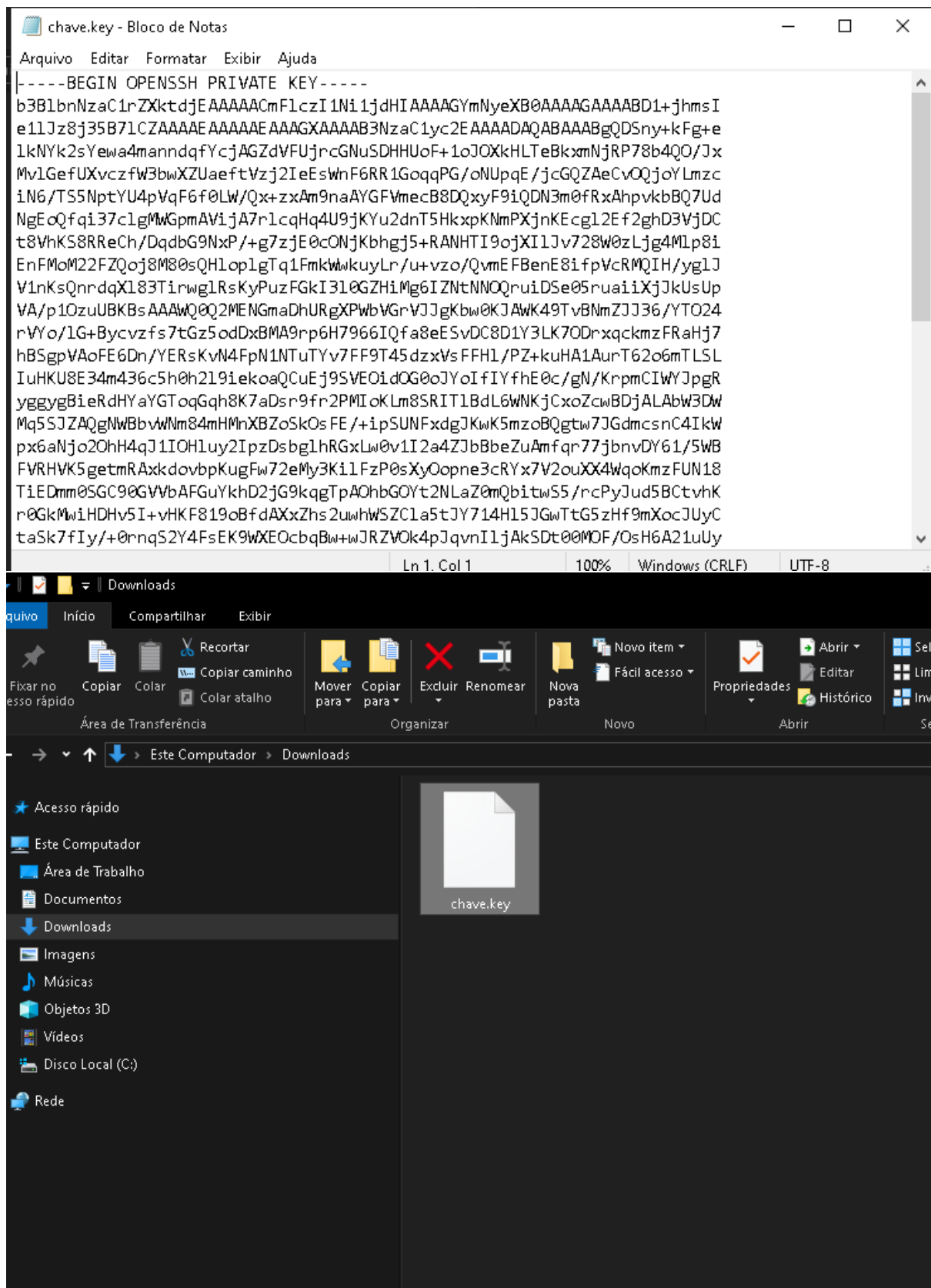
1. Criação da chave pública e chave privada

```
suporte@Vm-Linux: ~  
suporte@Vm-Linux:~$ ssh-keygen -t rsa  
Generating public/private rsa key pair.  
Enter file in which to save the key (/home/suporte/.ssh/id_rsa):  
Enter passphrase (empty for no passphrase):  
Enter same passphrase again:  
Your identification has been saved in /home/suporte/.ssh/id_rsa  
Your public key has been saved in /home/suporte/.ssh/id_rsa.pub  
The key fingerprint is:  
SHA256:c6ofTNxgN8D83G2nL9UxhF6laM8DcBPgw/WdWY5qOMw suporte@Vm-Linux  
The key's randomart image is:  
+---[RSA 3072]---+  
|                oo o.=.. + |  
|                .+ + = B+ |  
|                oo*.*.*oo |  
|                o *o=.*oo. |  
|                S E o.+o+ |  
|                o + o ..o |  
|                +      o |  
|                . .    . |  
|                ...    |  
+-----[SHA256]-----+
```

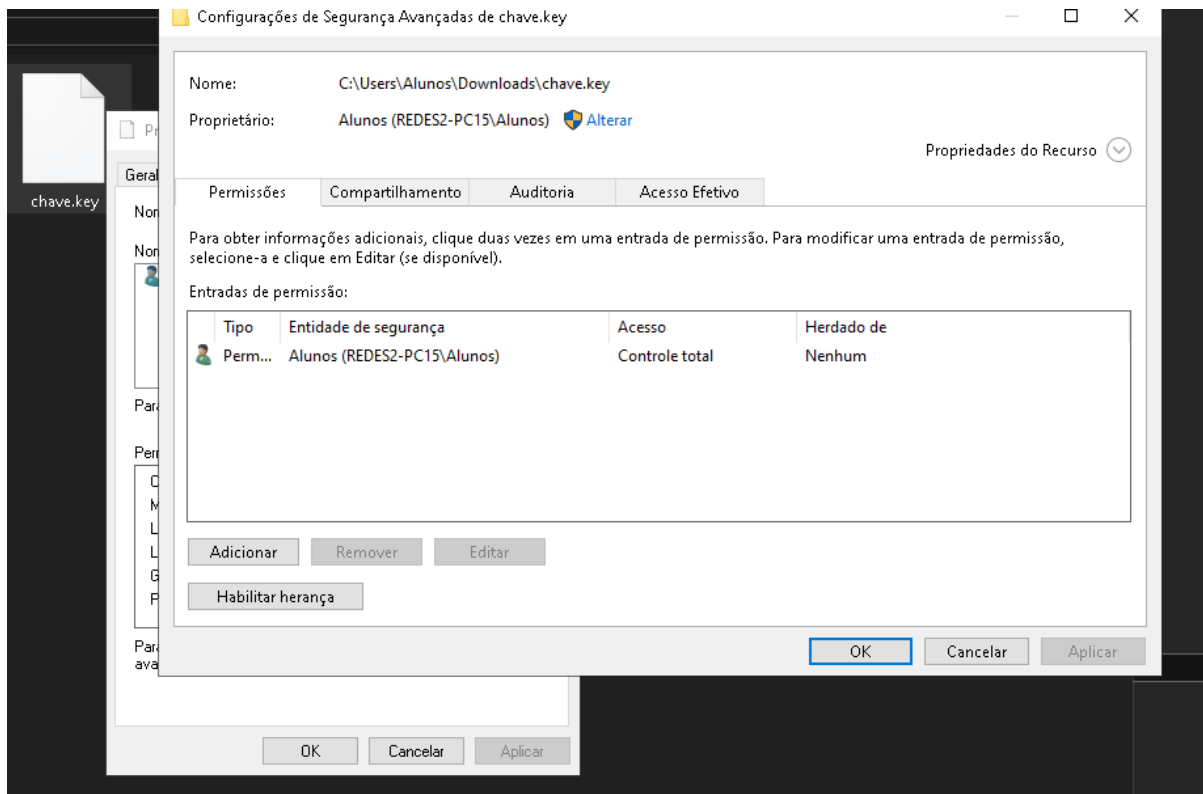
2. Navegar até a pasta .ssh e copiar a chave privada

```
suporte@Vm-Linux: ~/.ssh$ pwd  
/home/suporte/.ssh  
suporte@Vm-Linux:~/.ssh$ ls -la  
.. authorized_keys id_rsa id_rsa.pub  
suporte@Vm-Linux:~/.ssh$ cat id_rsa  
-----BEGIN OPENSSH PRIVATE KEY-----  
b3B1bnNzaC1rZKxtZjEAAAAAAmF1czI1Ni1jdHIAAAAGVmNyeXB0AAAAAGAAAAABD1+jhmsI  
e1lJz8j35B71CZAAAAEAAAAEAAAGAAAAAB3NzaC1yc2EAAAADAQABAAQGD5ny+kFg+e  
lkNYk2sYewa4mannndqfYcJAGZdVfUjrcGNuSDHHUoF+1oJOXkHLEBkxmNjRP78b4QO/3x  
M1GefUXvczfw3bwXZUaefTVzj2IEsWnF6RR1G0qqP6/oNUpqE/jcGQZAecVOQjovLmzc  
iN6/TSSNptYU4pVqF6f0LW/Qx+zxAm9naAYGFVmecB8DQxyF91QDN3m0fRxAhpvkbbQ7Ud  
NgEOqfQ137c1gMWspMAV1jA7r1cQhQ4U9jKYu2dnTS5HkxpKnmPXjnkEcgl2Ef2ghD3VjDC  
tBVhKS8RRch/DqdbG9Nxp/+g7zjE0cONjKbhgJ5+RANHTI9oJXI1Jv728w0zLjg4M1p81  
EnFm0M22FZQoJ8M80sQHl0plgTq1FmkWkuYlR/u+vzo/QvmEFBenE81fpVcRM0IH/yg1J  
V1nksQnrqX183T1rwglRskYpuzFGkI3L0GZHI.Mg61ZNTNNOQruIDSe05rua1IXj3kUsUp  
VA/p10zuUBKBsAAAWQ02MENGmaDhURGXpWbVgrV3Jgkbw0KJAWK49TvbNmZJ336/YTO24  
rVY0/LG+Bycvzfs7Gz5odDxBMA9rp6H7966IQfa8eESvDC8D1Y3LK70DrxqckmzFRaHJ7  
hBSgpVAoFE6Dn/YERskvN4FpN1NTuTYv7FF9T45dzxVsFFH1/PZ+kuHA1AurT62o6mTL5L  
IuHUK8E34m43c5h0h2191ekoaQCUEj9SVE01d0G00jYoIfIYfhE0c/gN/KrpmCIWYJpR  
ygyyB1eRdHYaYGTogqgh8K7aDs9fr2PMIOkLm8SRITLbDL6WwKjCxoZcwBDjALabW3Dw  
Mq5S7JAQgNWbVwWm84MhMhXBZoS0s0FE/+1pSUNFxdg7KwK5mzoBQgtw7JGdmcnCA1kW  
px6A9J020H4q11IOH1uy2I2p2DsbglhRGxLw0v1T244ZjbBbeZuAmfqr77jbnvDY61/5WB  
FVRHV5getmRAxkdovbpuKufW72eMy3KilFzP0sXyooopne3cRYx7Y2ouXX4WqokmzFUN18  
TIE0mm8Sc90GvVbAFguykhDzjG9kagTpA0hbs0YT2NL4Z0mQbitw55/rcPy3ud5B0cVhK  
r0GkMwiHDHv51+VHKf8190BfdAXxZhs2uwhWSZ01a5t3Y714H15JGwTtG55Hf9mXoc3UyC  
taSk7fiY/+0nngS2Y4FsEK9WXEOcbqBwHw3RZV0K4p3qvn1lJAK5Dt08M0F/OsH6A21uUy  
Fgebt8KE1MqyV4WZKtH7Mjdz8tNF0DIDu0KpB29ytnLzWugwGN9cCENsGgJnqC3ozFr  
v1mMtQkFOCCf+bZqu9M5WqjmlReT/YTPCcu8vVs/4-BULV2nS7/1KdL4HxmJ4gDBp5zfzm  
XopKnuw5j1sDaFYgV1ZD1A2wSXRvEG+hdzqLwP6h6eU7d+UvXyXLBuKs0Bnd43BffFRs  
T03C2VstSP013XmmyjWxLk1P20nBNE2zWb5Sek1y58y9tH09B323u25BnJh3B1QMy/9e  
MM8J0X10AMdtDZBK1KfGsaR8Uqg08M04UB9/pdoNchTngAXHnsMTq5n4EDP5EPhkzU06dY  
A1YRUceknkFzThBnQfCxxYfZm1wVvLx10FzIQnQ3FByGfcNDgXWAZeZ4E03PhJ334dQeA  
wUNKPN6K4Hh7x6+GQQuB5xzDSVXs/mgbtErB0ydpfsp+1jNYv8LXRE26p1118GxmJg4NB  
n02WQJX0DgC9bxcRgZSS1#3e9MH92KGasv94Uz6pLwW/50oGukA6Q0HYB4va7uQwp+  
k1NFmbJ9zSmCA0krY810utH4duTPX66+jPoWde1tCLELsHUQmXPB1nMwQJSwbkSRcVqtgy  
X6uQf2+hvTa17J5zeze4esE08A4tL14B62RCKq03uafCZsz1dJtGuYfs7396fmosys/XCO  
NVfiCZSY1kQvGFU4v35aTOJ5ZDKpF80uBe3qXdp7I9qmevt80pF1tFYXSMnrjKpXHOmJyc  
65TMBNjQYp0RnVU601+0ZxM+BsGHVatqLBfMbtLeytCbXHuXnCXfsJHGfs+0uIXhrHyJ  
MqX8eqf5NKx0q2r1kw6rAPQ8ZCFVXA01FD1UF9kb9XtagZ8YXIAwnJ6o7Pv914kPCFbLP  
I+7aFh0ksV7LYxSeS3sxbkyw6UEzVwPmEIKU1M/jLHwLujsX5paH6JVaehP2qG3BLvhj  
CH1oQeSkweKBYJZPZ04hKUFEnqLnKjzb8wVTsz9yX9CgP1rfzRNC9mX2kZvYw0Oo0qW4PTZ
```

3. Criar o arquivo no windows com o conteúdo da chave privada, o arquivo deve ser .key, conforme abaixo:



4. Remover as permissões excessivas do arquivo chave.key



5. Inserir a chave pública em authorized_keys, conforme abaixo:

```
suporte@Vm-Linux: ~/.ssh$ ls -a
.  ..  authorized_keys  id_rsa  id_rsa.pub
suporte@Vm-Linux: ~/.ssh$ echo id_rsa.pub > authorized_keys
suporte@Vm-Linux: ~/.ssh$ cat authorized_keys
id_rsa.pub
suporte@Vm-Linux: ~/.ssh$
```

6. Desabilitar a autenticação por senha e habilitar a autenticação com chave no arquivo sshd_config conforme abaixo e em seguida salvar:

```
suporte@Vm-Linux: /etc/ssh
#StrictModes yes
#MaxAuthTries 6
#MaxSessions 10

PubkeyAuthentication yes

# Expect .ssh/authorized_keys2 to be disregarded by default in future.
#AuthorizedKeysFile .ssh/authorized_keys .ssh/authorized_keys2

#AuthorizedPrincipalsFile none

#AuthorizedKeysCommand none
#AuthorizedKeysCommandUser nobody

# For this to work you will also need host keys in /etc/ssh/ssh_known_hosts
#HostbasedAuthentication no
# Change to yes if you don't trust ~/.ssh/known_hosts for
# HostbasedAuthentication
#IgnoreUserKnownHosts no
# Don't read the user's ~/.rhosts and ~/.shosts files
#IgnoreRhosts yes

# To disable tunneled clear text passwords, change to no here!
PasswordAuthentication no
#PermitEmptyPasswords no

# Change to yes to enable challenge-response passwords (beware issues with
# some PAM modules and threads)
ChallengeResponseAuthentication no

# Kerberos options
#KerberosAuthentication no
#KerberosOrLocalPasswd yes
#KerberosTicketCleanup yes
#KerberosGetAFSToken no

# GSSAPI options
#GSSAPIAuthentication no
#GSSAPICleanupCredentials yes
#GSSAPIStrictAcceptorCheck yes
:wq!
```

7. Reiniciar os serviços do ssh, conforme abaixo:

```
suporte@Vm-Linux: /etc/ssh
suporte@Vm-Linux:/etc/ssh$ sudo systemctl restart sshd
suporte@Vm-Linux:/etc/ssh$ sudo systemctl restart ssh
suporte@Vm-Linux:/etc/ssh$
```

8. Fazer login na máquina utilizando a chave criada:

C:\Windows\system32\cmd.exe

```
C:\Users\Alunos\Downloads>ssh -i chave.key suporte@4.201.120.228
```

C:\Windows\system32\cmd.exe - ssh -i chave.key suporte@4.201.120.228

```
C:\Users\Alunos\Downloads>ssh -i chave.key suporte@4.201.120.228
Enter passphrase for key 'chave.key':
```

9. Login bem-sucedido!

```
suporte@Vm-Linux: ~  
C:\Users\Alunos\Downloads>ssh -i chave.key suporte@4.201.120.228  
Enter passphrase for key 'chave.key':  
Welcome to Ubuntu 20.04.6 LTS (GNU/Linux 5.15.0-1054-azure x86_64)  
  
 * Documentation:  https://help.ubuntu.com  
 * Management:    https://landscape.canonical.com  
 * Support:       https://ubuntu.com/pro  
  
This system has been minimized by removing packages and content that are  
not required on a system that users do not log into.  
  
To restore this content, you can run the 'unminimize' command.  
  
Expanded Security Maintenance for Applications is not enabled.  
  
0 updates can be applied immediately.  
  
Enable ESM Apps to receive additional future security updates.  
See https://ubuntu.com/esm or run: sudo pro status  
  
New release '22.04.3 LTS' available.  
Run 'do-release-upgrade' to upgrade to it.  
  
*** System restart required ***  
Last login: Thu Feb 22 23:53:26 2024 from 200.17.36.134  
suporte@Vm-Linux:~$
```