

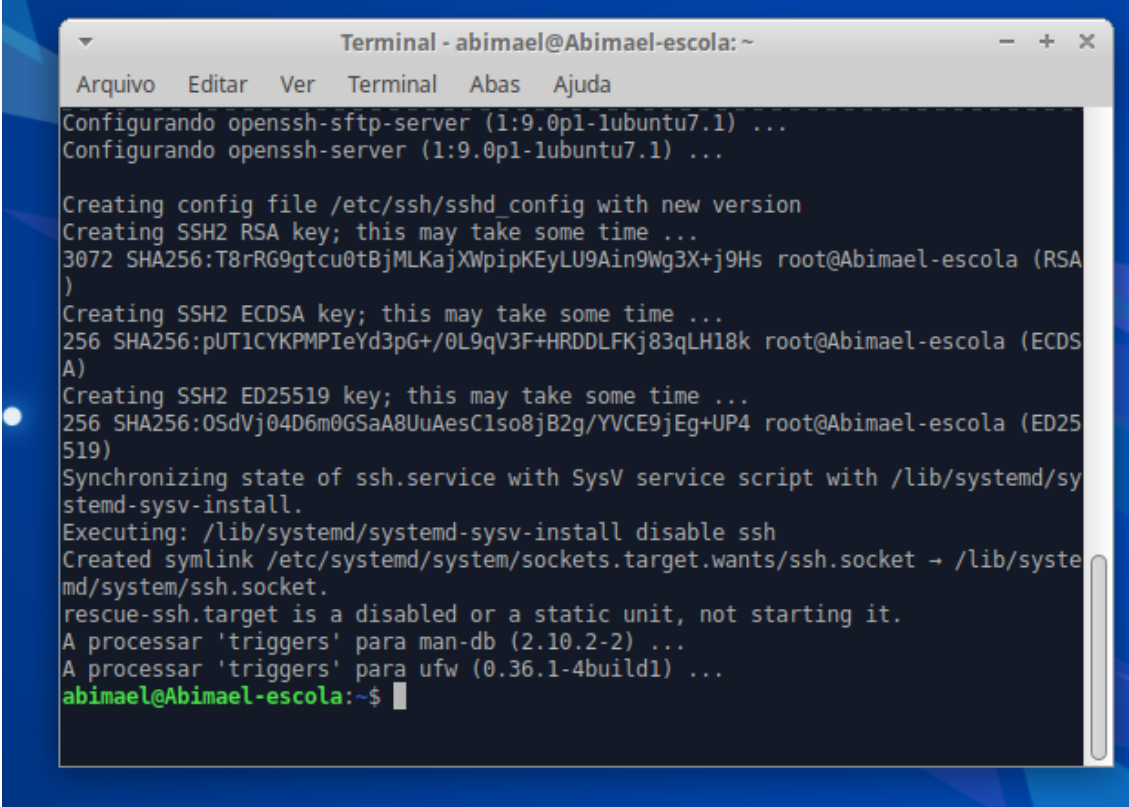
Atividade 06 – Conexão SSH

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Turma: P8 de Informática

Sistemas Operacionais De Redes 02

Instalação do SSH no Linux

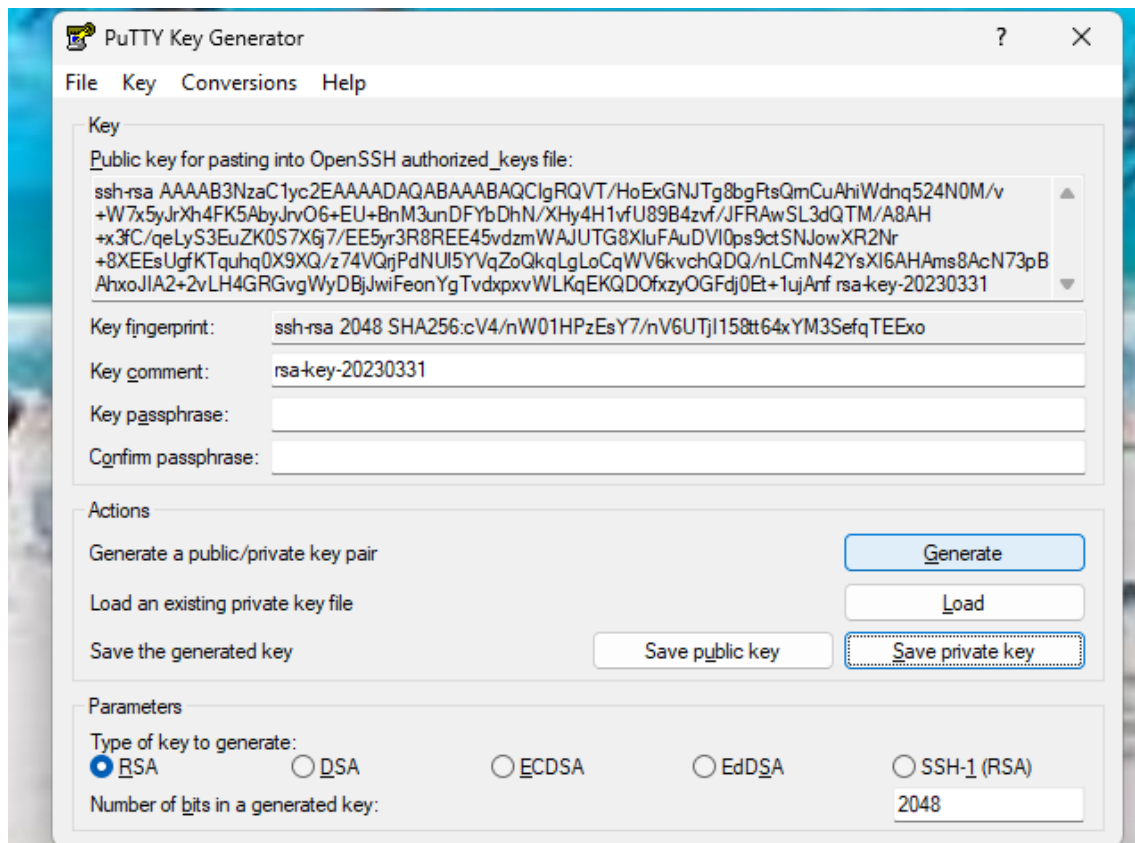
A terminal window titled "Terminal - abimael@Abimael-escola: ~" with a menu bar containing "Arquivo", "Editar", "Ver", "Terminal", "Abas", and "Ajuda". The terminal output shows the installation of OpenSSH server on Ubuntu 7.1. It includes commands for configuring the server, creating RSA, ECDSA, and ED25519 keys, synchronizing the service state with SysV, and enabling the service. The prompt at the end is "abimael@Abimael-escola:~\$".

```
Terminal - abimael@Abimael-escola: ~
Arquivo  Editar  Ver   Terminal  Abas  Ajuda

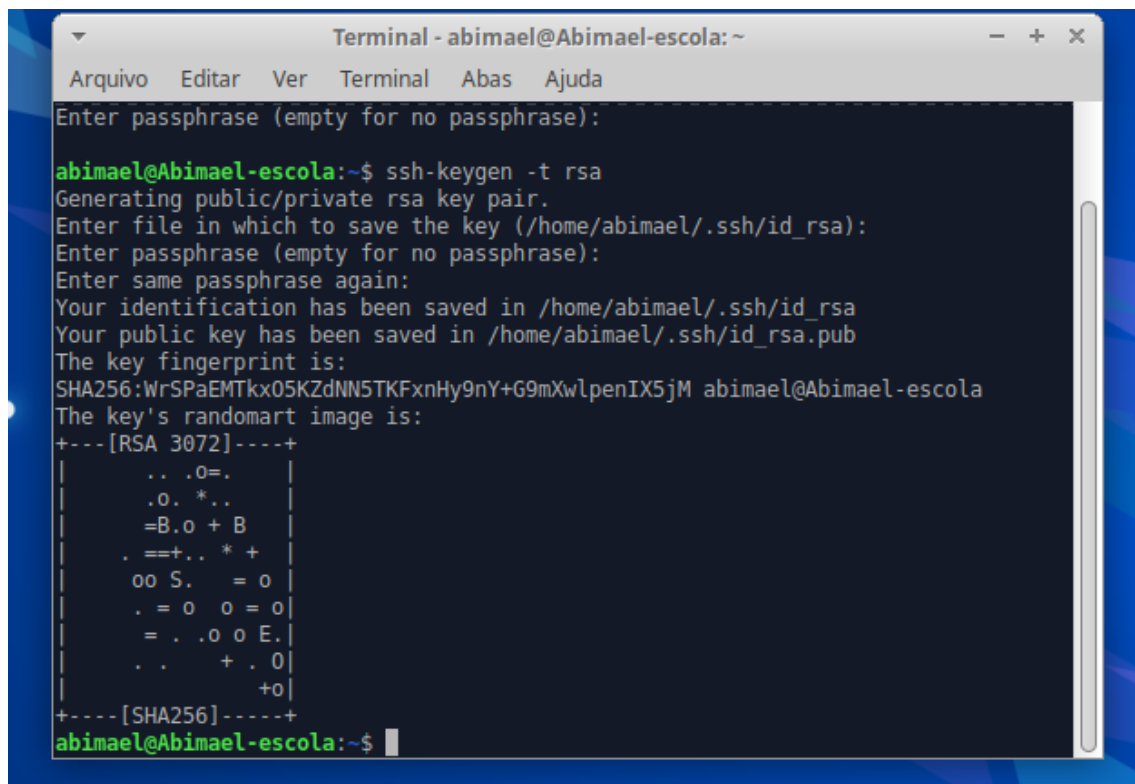
Configurando openssh-sftp-server (1:9.0p1-lubuntu7.1) ...
Configurando openssh-server (1:9.0p1-lubuntu7.1) ...

Creating config file /etc/ssh/sshd_config with new version
Creating SSH2 RSA key; this may take some time ...
3072 SHA256:T8rRG9gtcu0tBjMLKajXWpipKEyLU9Ain9Wg3X+j9Hs root@Abimael-escola (RSA
)
Creating SSH2 ECDSA key; this may take some time ...
256 SHA256:pUT1CYKPMPIeYd3pG+/0L9qV3F+HRDDLfKj83qLH18k root@Abimael-escola (ECDS
A)
Creating SSH2 ED25519 key; this may take some time ...
256 SHA256:0SdVj04D6m0GSaA8UuAesClso8jB2g/YVCE9jEg+UP4 root@Abimael-escola (ED25
519)
Synchronizing state of ssh.service with SysV service script with /lib/systemd/sy
stemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install disable ssh
Created symlink /etc/systemd/system/sockets.target.wants/ssh.socket → /lib/syste
md/system/ssh.socket.
rescue-ssh.target is a disabled or a static unit, not starting it.
A processor 'triggers' para man-db (2.10.2-2) ...
A processor 'triggers' para ufw (0.36.1-4build1) ...
abimael@Abimael-escola:~$
```

Geração de Chaves Windows, pelo puTTYgen



Gerando chaves SSH pelo Terminal do Linux



Chave Pública Linux

```
Terminal - abimael@Abimael-escola: ~
Arquivo  Editar  Ver  Terminal  Abas  Ajuda

The key fingerprint is:
SHA256:WrSPaEMTKx05KZdNN5TKFxnHy9nY+G9mXwlpenIX5jM abimael@Abimael-escola
The key's randomart image is:
+---[RSA 3072]-----+
|      .. .o=.      |
|      .o. *..      |
|      =B.o + B      |
|      . ==+. . * +  |
|      oo S.   = o   |
|      . = o   o = o  |
|      = . .o o E.   |
|      . .   + . o   |
|      +o           |
+---[SHA256]-----+
abimael@Abimael-escola:~$ cat ~/.ssh/id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQgQDBLDjJn9LpNFy3XYPa2efuloUUJpQuMh5aA0bAJtVr
soASulikAURC3pZTUSHyNi6aYr5yq8W0minNxp7gmY993svTN9vsiTS+yDNPuK4SZt29uaCqE4AMC0Xz
amrD0xnaQ+RbzJlKV3j9YeSNYQSnrc3GMIPI87pg2Kd5sNqrZoN67ew2vEcc/R/KpyIsrAJcZCKF+Mdf
XVGwDKt2C9x1XQdxqQz6ps/ZYbhTSGurnw/f9H02K7fvHu2ghwjF+AKLWs7CL8ohp8NjoJum+U0EkRuF
DCmSLpjtn/u5wBm+I5dgU/Mm4iMrChNagKV22gW2eyhqnlalvMCZXRaWpin7jf4p0A3FiTIMsdVTvrW
84hJxZKcNfVkJZg3u/3X+IScWtvjYu6NVa1AmZohurv4bV4ArcqAbg9+/Wn3pkGiDl5xwkX5jIx7fbV0I
aX2puj0AJcCmnc34Akc9lxQMGkFr0yWrwdozwBXeWZgHsImv2Y4w+gNDIxdZLYTACp/WATs= abimael
@Abimael-escola
abimael@Abimael-escola:~$
```

Chave Privada Linux

```
abimael@Abimael-escola:~$ cat ~/.ssh/id_rsa
-----BEGIN OPENSSH PRIVATE KEY-----
b3BlbnZAc1RZKtdjEAAAAACmFlczI1Ni1jdhIAAAAGYmNyeXB0AAAAGAAAAABBWbC1B+9
qwZQIX0Qy8cnW3AAAAEAAAAEAAAGXAAAAAB3NzaC1yc2EAAAADAQABAAQgQDBLDjJn9Lp
NFy3XYPa2efuloUUJpQuMh5aA0bAJtVrsoASulikAUrc3pZTUshyNi6aYr5yq8W0minNxp
7gmY993svTN9vsiTS+yDNPuK4SZt29uaCqE4AMC0XzamrD0xnaQ+RbzJlKV3j9YeSNYQSn
rC3GMIPI87pg2Kd5sNqrZoN67ew2vEcc/R/KpyIsrAJcZCKF+MdfXVGwDKt2C9x1XQdxqQ
z6ps/ZYbhTSGurnw/f9H02K7fvHu2ghwjF+AKLWs7CL8ohp8NjoJum+U0EkRuFDcMSLpjt
n/u5wBm+I5dgU/Mm4iMrChNagKV22glw2eyhqnlalvMCZXRaWpin7jf4p0A3FiTIMMsDVtV
rW84hJxZKcnfVkJg3u/3X+IScWtvjYu6NValAmZohurv4bV4ArcqAbg9+/Wn3pkGiDL5xw
kX5jIax7fbV0IaX2puj0AJcCmnc34Akc9lxQMgkFr0yWrwdozwBXewZgHsImv2Y4w+gNDIx
dZLYTAcP/WATsAAAWQ6SzdDuf5iLjEyDwIP2UdeZJNwJMU80043SwVU8LcAS9KkJs3bG5zE
ZrkJrL7c1lZC/kyH5NFETN74Lkggim9hbU+uAFi8ZQK4P3H+fJ34jJ7LcC1rlgaQXQ7t+
R4lvkhSDl6GPjGQqXT09JwQQciQ2Y0hvnJ+uQxJIR3uv06ApDDDI/f7NJnDhkpYj4yDRNF
h7w2486ixdfaEjXVWiGpbpM6MaaZ93wSxHW4HAjUElSxfn4MNjUG7TK2NUKkyZD2gK3kv6
LmUeTdlF6Yjpe844rb1kx04+EDAQYjo4r9ZEv2NFCacsra8QLH20ihAdTIPKxGgtyhb0b+
0Fgkd8d5ASYWmoPDlRi2pZPwrjo2IE9i+HGTNv9JuZJEJVUJgh29TiIdw7hu/EUudl8zZ
iYoYxp7qs4Z4FyK/oC5Q4JkFXGpW7ronulfqI28Imt84nI4Cbq0d1N6IpBEiRC6dLusDUZ
TuaWw/WPMiEQ7Ii4yh5HpSQxFKHE4sDc5wDYbqBFxtLIgfGZxcimHQYLq9LYr5LKI50jj
aiETjIq0AnEtmLpj82B2bdEX4Wg2VSX0n7VRqe0fJJbj3as4HSvBfud662jU/7q7TftZB6
FepAfA87IsjgKq5P9ZTX5sdnWN3bkMdrwLbLGGG4EcXPlxLTARJ5N08XUGABGE0VZa+R1S
0VbHl07pw5iRpvPp0i7tESwPRXm1LAliaFivqqtF8thCQz6LkbM0xrRrcjONd0Y7hUI20
n+XmUUNgD0/uAeIIt9KSX8zPaRE85UMeTD+Cw5vFY+m925iYm070hgpLQejGgfdGNx6p0
ACIIXwZaidff4+EKlCgytwrN3MH9YA/mEVVZ63pmsEuW5i2pH7CZ//gCNDHABFW1tl2TU5
mclFT7IIRwsUTaR6o/apju2m6S10sjcW9tgZXGKsNbcXDdSLnmdbm8lok1m6p+LVQPBZ5
W1HP4s04Um5HnS0nNkxbqD5m5swUDSyY0zNoVgez+hofwNVs1Z8junFELp0taBe4pBvzE+
/29hTb0YaWnpSCl1NKwxWLw3Sa5a3LtDUYX6h2LpgJlRtrkfaZ1k/++R650vHCbGNe0u2W
NdS2ZBs81JBsKvABZyLfy8U11K8KNTbYj2XoE54bWNEXxAcAYcVQ/EKR/j50p0V37fzD0
4duQWLDvfaqWL3NDYs640QW1cjgvZtmHxgBR4AhK80fo7AtmfZBvFzVZQr5nEJeFuXxxk
X1nG1CLWu762nF42+VYfCemni0cNhHdkAv32X0PXWqKFDYgetJavyXoohUy3egG1G3Hvd
zVwY4yN8a7gn6RB0Ru3p3d/xh9BZcZ/XKBvw9FhpbNXD2ENA0WfypT/nZvD+pP3Qc8yKVH
eMXFjLEnHI4BiTZWeape0Vr87qfMr9AtJlWQlGX9KMKnF0htMiSL6CqPhHHkjgHrgdDm1B
EDJHl3uFuiregF1FYBqPiltvLvlz0SDKG60VgyT8mBxRS/zsqTHeJmsCHigY5+pgW9qKqz
jG3CQg+cxUCuI8ZHDxQdt4JwT9vZLtwvFsG8f6vvPpBt+cjzwIDt0KcW3ufD1fsVjJJ25S
lgPmMx/Tcq+qQbxMEDdailWkP8RN8dEfexUxBnoxDT6d+LdIgCDGijYmdcRdq4Qiwg6WW4
1PW7QS4cBdIvlyvFKj9aXEp+fUxAk8MW9lQj9zGJGvB3wqaC8eKJKg+F536YQI0rB8YucI
GfjxksYIXbd5DE1sgJEzc0PrYUWiGAX1rkpgvTejPHXKiP4leeEdeS8Kg43P9J8ljWxVh0
KQ+oeN2N8L2cIAss0HV0Tp45FV+WURbGtttI6U5xEBowE80sWwFEoN0KtFcC7J37YoWUU
BIUCyLNKEWQnVs48aZVCS9NBYyM=
-----END OPENSSH PRIVATE KEY-----
abimael@Abimael-escola:~$
```

IP Linux

```
inet 10.112.4.245/19
```

Evidências da conexão remota

```
abimael@Abimael-escola: ~  
login as: abimael  
abimael@10.112.4.245's password:  
Welcome to Ubuntu 22.10 (GNU/Linux 5.19.0-38-generic x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:        https://ubuntu.com/advantage  
  
127 as atualizações podem ser aplicadas imediatamente.  
83 dessas atualizações são atualizações de segurança padrão.  
Para ver as actualizações adicionais corre o comando: apt list --upgradable  
  
The programs included with the Ubuntu system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.  
  
abimael@Abimael-escola:~$ cat ~/.ssh/id_rsa.pub  
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQgQDBLDjJn9LpNFy3XYPa2efuloUUJpQuMh5aA0bAJtVr  
soASulikAURC3p2TUshyNi6aYr5yq8W0minNxp7gmY993svTN9vsiTS+yDNPuK4SZt29uaCqE4AMCOXz  
amrD0xnaQ+RbzJlKV3j9YeSNYQSnrc3GMIPi87pg2Kd5sNqrZoN67ew2vEcc/R/KpyIsrAJcZCKF+Mdf  
XVGwDKt2C9xlXQdxqQz6ps/ZYbhTSGurnw/f9H02K7fvHu2ghwjF+AKLWs7CL8ohp8NjoJum+UOEKruF  
DCmSLpjtn/u5wBm+I5dgU/Mm4iMrChNagKV22gW2eyhqn1alvMC2XRaWpin7jf4p0A3FiTIMsdVTvrW  
84hJxZKcnfVvkZg3u/3X+IScWTvjYu6NValAmZohurv4bV4ArcqAbg9+/Wn3pkGiDl5xwkX5jIx7fbVOI  
aX2pujOAJcCmnc34Akc9lxQMGkFr0yWrwdozwBXeW2gHsImv2Y4w+gNDIxdZlYTACp/WATs= abimael  
@Abimael-escola  
abimael@Abimael-escola:~$
```