

# Atividade 06

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```
root@daniel-VirtualBox: /home/daniel
Arquivo  Editar  Ver  Pesquisar  Terminal  Ajuda
root@daniel-VirtualBox:/home/daniel# apt-get install openssh-server
Lendo listas de pacotes... Pronto
Construindo árvore de dependências
Lendo informação de estado... Pronto
The following additional packages will be installed:
  ncurses-term openssh-client openssh-sftp-server ssh-import-id
Pacotes sugeridos:
  keychain libpam-ssh monkeysphere ssh-askpass molly-guard
Os NOVOS pacotes a seguir serão instalados:
  ncurses-term openssh-server openssh-sftp-server ssh-import-id
Os pacotes a seguir serão atualizados:
  openssh-client
1 pacotes atualizados, 4 pacotes novos instalados, 0 a serem removidos e 620 não atualizados.
É preciso baixar 1.100 kB/1.359 kB de arquivos.
Depois desta operação, 6.010 kB adicionais de espaço em disco serão usados.
Você quer continuar? [S/n] s
Obter:1 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 openssh-client amd64 1:8.2p1-4ub
untu0.3 [671 kB]
Obter:2 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 openssh-sftp-server amd64 1:8.2p
1-4ubuntu0.3 [51,5 kB]
Obter:3 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 openssh-server amd64 1:8.2p1-4ub
untu0.3 [377 kB]
Baixados 1.100 kB em 6s (177 kB/s)
Pré-configurando pacotes ...
(Lendo banco de dados ... 289870 ficheiros e directórios actualmente instalados.)
A preparar para desempacotar .../openssh-client_1%3a8.2p1-4ubuntu0.3_amd64.deb ...
A descompactar openssh-client (1:8.2p1-4ubuntu0.3) sobre (1:8.2p1-4) ...
A seleccionar pacote anteriormente não seleccionado ncurses-term.
A preparar para desempacotar .../ncurses-term_6.2-0ubuntu2_all.deb ...
A descompactar ncurses-term (6.2-0ubuntu2) ...
```

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root@daniel-VirtualBox: /home/daniel
Arquivo  Editar  Ver  Pesquisar  Terminal  Ajuda
A descompactar ncurses-term (6.2-0ubuntu2) ...
A seleccionar pacote anteriormente não seleccionado openssh-sftp-server.
A preparar para descompactar ../openssh-sftp-server_1%3a8.2p1-4ubuntu0.3_amd64.deb ...
A descompactar openssh-sftp-server (1:8.2p1-4ubuntu0.3) ...
A seleccionar pacote anteriormente não seleccionado openssh-server.
A preparar para descompactar ../openssh-server_1%3a8.2p1-4ubuntu0.3_amd64.deb ...
A descompactar openssh-server (1:8.2p1-4ubuntu0.3) ...
A seleccionar pacote anteriormente não seleccionado ssh-import-id.
A preparar para descompactar ../ssh-import-id_5.10-0ubuntu1_all.deb ...
A descompactar ssh-import-id (5.10-0ubuntu1) ...
Configurando openssh-client (1:8.2p1-4ubuntu0.3) ...
Configurando ssh-import-id (5.10-0ubuntu1) ...
Attempting to convert /etc/ssh/ssh_import_id
Configurando ncurses-term (6.2-0ubuntu2) ...
Configurando openssh-sftp-server (1:8.2p1-4ubuntu0.3) ...
Configurando openssh-server (1:8.2p1-4ubuntu0.3) ...

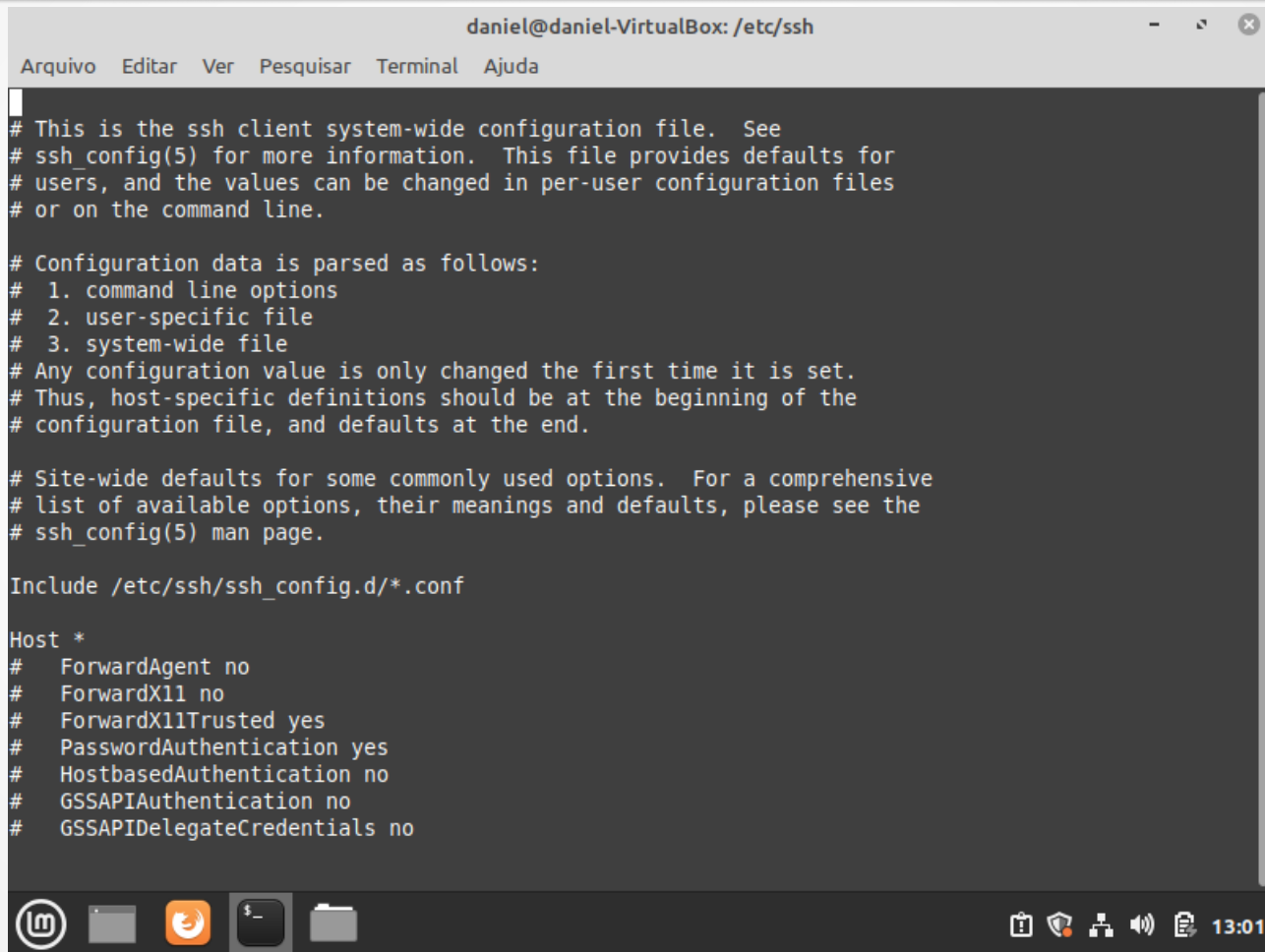
Creating config file /etc/ssh/sshd_config with new version
Creating SSH2 RSA key; this may take some time ...
3072 SHA256:I+IAeFYqy6yq7bm2H77E9SqNXBvijrdi5VG+Wd6/vvg root@daniel-VirtualBox (RSA)
Creating SSH2 ECDSA key; this may take some time ...
256 SHA256:wjijH+uf9mE0paQzQMdbzulUQeTy7Tsqt4fFMbQ8Dow root@daniel-VirtualBox (ECDSA)
Creating SSH2 ED25519 key; this may take some time ...
256 SHA256:X56MVbA4h1VEx9gwLfwUIu56HuopN22S+alu3fBFrLY root@daniel-VirtualBox (ED25519)
Created symlink /etc/systemd/system/sshd.service → /lib/systemd/system/ssh.service.
Created symlink /etc/systemd/system/multi-user.target.wants/ssh.service → /lib/systemd/system/ssh.service.
rescue-ssh.target is a disabled or a static unit, not starting it.
A processor 'triggers' para systemd (245.4-4ubuntu3) ...
A processor 'triggers' para man-db (2.9.1-1) ...
```

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```
root@daniel-VirtualBox: /home/daniel
Arquivo  Editar  Ver  Pesquisar  Terminal  Ajuda
A descompactar openssh-sftp-server (1:8.2p1-4ubuntu0.3) ...
A seleccionar pacote anteriormente não seleccionado openssh-server.
A preparar para desempacotar .../openssh-server_1%3a8.2p1-4ubuntu0.3_amd64.deb ...
A descompactar openssh-server (1:8.2p1-4ubuntu0.3) ...
A seleccionar pacote anteriormente não seleccionado ssh-import-id.
A preparar para desempacotar .../ssh-import-id_5.10-0ubuntu1_all.deb ...
A descompactar ssh-import-id (5.10-0ubuntu1) ...
Configurando openssh-client (1:8.2p1-4ubuntu0.3) ...
Configurando ssh-import-id (5.10-0ubuntu1) ...
Attempting to convert /etc/ssh/ssh_import_id
Configurando ncurses-term (6.2-0ubuntu2) ...
Configurando openssh-sftp-server (1:8.2p1-4ubuntu0.3) ...
Configurando openssh-server (1:8.2p1-4ubuntu0.3) ...

Creating config file /etc/ssh/sshd_config with new version
Creating SSH2 RSA key; this may take some time ...
3072 SHA256:I+IAeFYqy6yq7bm2H77E9SqNXBvijrdi5VG+Wd6/vvg root@daniel-VirtualBox (RSA)
Creating SSH2 ECDSA key; this may take some time ...
256 SHA256:wjiH+uf9mEOpaQzQMDbzULUQeTy7Tsqt4fFMbQ8Dow root@daniel-VirtualBox (ECDSA)
Creating SSH2 ED25519 key; this may take some time ...
256 SHA256:X56MVbA4h1VEx9gwLfwUIu56HuopN22S+alu3fBFrLY root@daniel-VirtualBox (ED25519)
Created symlink /etc/systemd/system/sshd.service → /lib/systemd/system/ssh.service.
Created symlink /etc/systemd/system/multi-user.target.wants/ssh.service → /lib/systemd/system/ssh.service.
rescue-ssh.target is a disabled or a static unit, not starting it.
A processar 'triggers' para systemd (245.4-4ubuntu3) ...
A processar 'triggers' para man-db (2.9.1-1) ...
A processar 'triggers' para ufw (0.36-6) ...
root@daniel-VirtualBox:/home/daniel#
```

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The image shows a terminal window titled "daniel@daniel-VirtualBox: /etc/ssh". The window contains the content of the /etc/ssh/sshd\_config file. The text is as follows:

```
Arquivo  Editar  Ver  Pesquisar  Terminal  Ajuda

# This is the ssh client system-wide configuration file. See
# ssh_config(5) for more information. This file provides defaults for
# users, and the values can be changed in per-user configuration files
# or on the command line.

# Configuration data is parsed as follows:
# 1. command line options
# 2. user-specific file
# 3. system-wide file
# Any configuration value is only changed the first time it is set.
# Thus, host-specific definitions should be at the beginning of the
# configuration file, and defaults at the end.

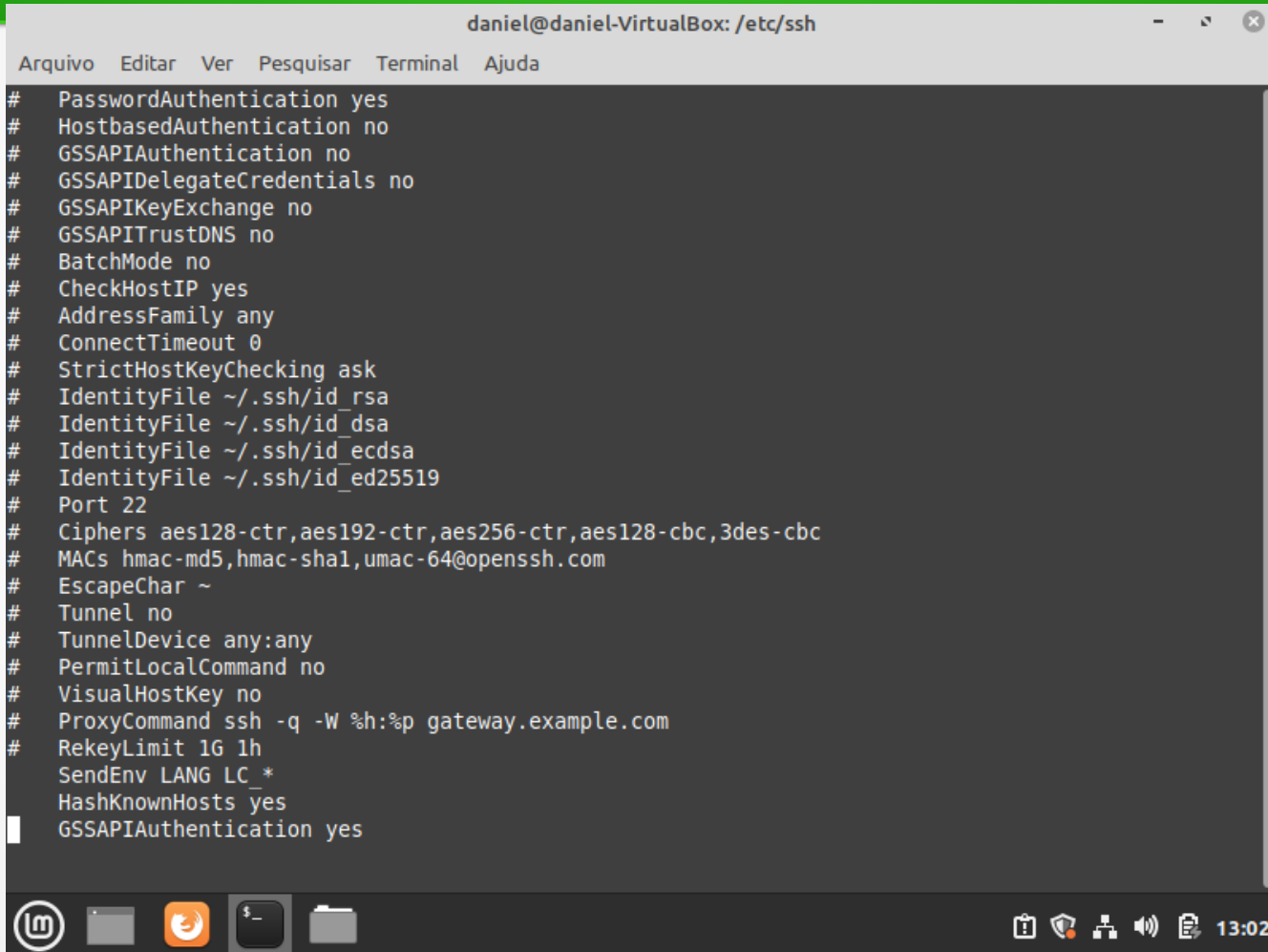
# Site-wide defaults for some commonly used options. For a comprehensive
# list of available options, their meanings and defaults, please see the
# ssh_config(5) man page.

Include /etc/ssh/ssh_config.d/*.conf

Host *
# ForwardAgent no
# ForwardX11 no
# ForwardX11Trusted yes
# PasswordAuthentication yes
# HostbasedAuthentication no
# GSSAPIAuthentication no
# GSSAPIDelegateCredentials no
```

The terminal window has a menu bar with "Arquivo", "Editar", "Ver", "Pesquisar", "Terminal", and "Ajuda". The bottom status bar shows icons for a terminal, a folder, and a search icon, along with the time "13:01".

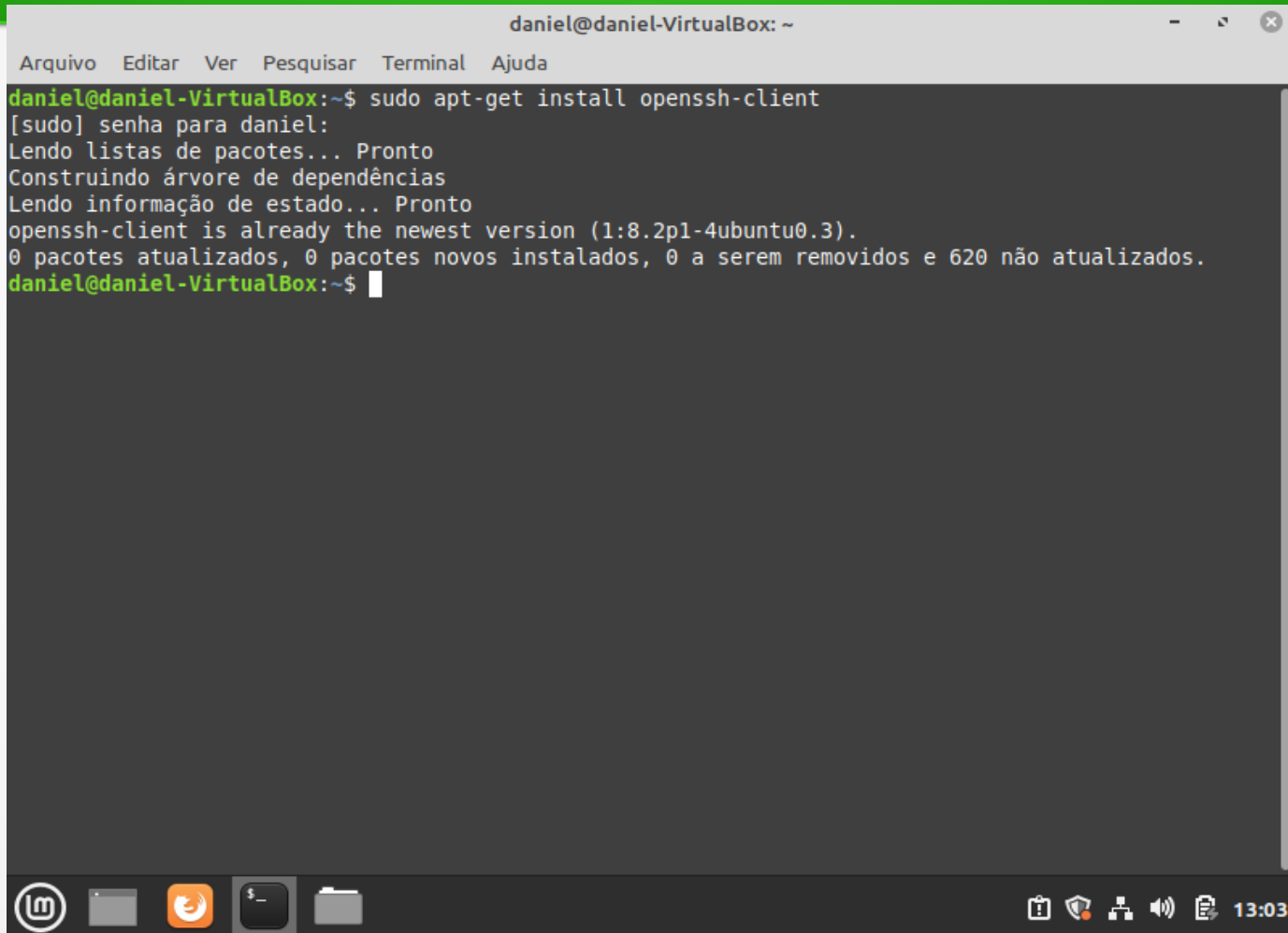
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The image shows a terminal window titled "daniel@daniel-VirtualBox: /etc/ssh". The window has a menu bar with "Arquivo", "Editar", "Ver", "Pesquisar", "Terminal", and "Ajuda". The terminal displays the configuration for the SSH daemon, with each line preceded by a hash symbol (#). The configuration includes settings for authentication methods, host key checking, identity files, port, ciphers, MACs, escape characters, tunneling, and environment variables. The terminal is running on a Linux system, as indicated by the Ubuntu logo in the taskbar.

```
daniel@daniel-VirtualBox: /etc/ssh
Arquivo  Editar  Ver  Pesquisar  Terminal  Ajuda
# PasswordAuthentication yes
# HostbasedAuthentication no
# GSSAPIAuthentication no
# GSSAPIDelegatedCredentials no
# GSSAPIKeyExchange no
# GSSAPITrustDNS no
# BatchMode no
# CheckHostIP yes
# AddressFamily any
# ConnectTimeout 0
# StrictHostKeyChecking ask
# IdentityFile ~/.ssh/id_rsa
# IdentityFile ~/.ssh/id_dsa
# IdentityFile ~/.ssh/id_ecdsa
# IdentityFile ~/.ssh/id_ed25519
# Port 22
# Ciphers aes128-ctr,aes192-ctr,aes256-ctr,aes128-cbc,3des-cbc
# MACs hmac-md5,hmac-sha1,umac-64@openssh.com
# EscapeChar ~
# Tunnel no
# TunnelDevice any:any
# PermitLocalCommand no
# VisualHostKey no
# ProxyCommand ssh -q -W %h:%p gateway.example.com
# RekeyLimit 1G 1h
# SendEnv LANG LC_*
# HashKnownHosts yes
# GSSAPIAuthentication yes
```

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The image shows a terminal window titled "daniel@daniel-VirtualBox: ~". The window has a menu bar with "Arquivo", "Editar", "Ver", "Pesquisar", "Terminal", and "Ajuda". The terminal output shows the command "sudo apt-get install openssh-client" being executed. The system prompts for a password, then reports that the package is already installed and up-to-date. The prompt returns to the user.

```
daniel@daniel-VirtualBox: ~  
Arquivo  Editar  Ver  Pesquisar  Terminal  Ajuda  
daniel@daniel-VirtualBox:~$ sudo apt-get install openssh-client  
[sudo] senha para daniel:  
Lendo listas de pacotes... Pronto  
Construindo árvore de dependências  
Lendo informação de estado... Pronto  
openssh-client is already the newest version (1:8.2p1-4ubuntu0.3).  
0 pacotes atualizados, 0 pacotes novos instalados, 0 a serem removidos e 620 não atualizados.  
daniel@daniel-VirtualBox:~$
```

The bottom of the image shows a desktop environment with a taskbar containing icons for a terminal, a folder, and a web browser. The system clock in the bottom right corner shows "13:03".

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```
daniel@daniel-VirtualBox: ~
Arquivo  Editar  Ver  Pesquisar  Terminal  Ajuda

daniel@daniel-VirtualBox:~$ ssh-keygen -t rsa -b 2048
Generating public/private rsa key pair.
Enter file in which to save the key (/home/daniel/.ssh/id_rsa):
Created directory '/home/daniel/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/daniel/.ssh/id_rsa
Your public key has been saved in /home/daniel/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:qSEfHZ5nprS2tQ05Bq8Ux1AwusVFW0tCHd064Bn+VGA daniel@daniel-VirtualBox
The key's randomart image is:
+---[RSA 2048]---+
|      o=*..Eo      |
|      o.=o+.. o    |
|      . =o++ o     |
|      + *+++       |
|      o = S++..    |
|      o.Oo*..      |
|      +o+o..       |
|      . .+o..      |
|      .o. ..       |
+-----[SHA256]-----+
daniel@daniel-VirtualBox:~$
```



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```
daniel@daniel-VirtualBox: ~
Arquivo  Editar  Ver  Pesquisar  Terminal  Ajuda

daniel@daniel-VirtualBox:~$ sudo apt-get install putty
[sudo] senha para daniel:
Lendo listas de pacotes... Pronto
Construindo árvore de dependências
Lendo informação de estado... Pronto
The following additional packages will be installed:
  putty-tools
Pacotes sugeridos:
  putty-doc
Os NOVOS pacotes a seguir serão instalados:
  putty putty-tools
0 pacotes atualizados, 2 pacotes novos instalados, 0 a serem removidos e 620 não atualizados.
É preciso baixar 865 kB de arquivos.
Depois desta operação, 4.205 kB adicionais de espaço em disco serão usados.
Você quer continuar? [S/n] s
Obter:1 http://archive.ubuntu.com/ubuntu focal/universe amd64 putty-tools amd64 0.73-2 [425 kB]
Obter:2 http://archive.ubuntu.com/ubuntu focal/universe amd64 putty amd64 0.73-2 [440 kB]
Baixados 865 kB em 5s (176 kB/s)
A seleccionar pacote anteriormente não seleccionado putty-tools.
(Lendo banco de dados ... 292717 ficheiros e directórios actualmente instalados.)
A preparar para desempacotar .../putty-tools_0.73-2_amd64.deb ...
A descompactar putty-tools (0.73-2) ...
A seleccionar pacote anteriormente não seleccionado putty.
A preparar para desempacotar .../putty_0.73-2_amd64.deb ...
A descompactar putty (0.73-2) ...
Configurando putty-tools (0.73-2) ...
Configurando putty (0.73-2) ...
A processar 'triggers' para mime-support (3.64ubuntu1) ...
A processar 'triggers' para gnome-menus (3.36.0-1ubuntu1) ...
A processar 'triggers' para man-db (2.8.1-1)
```