

Máquina Virtual Ubuntu 18 Server

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Roteiro da Apresentação

- 1- VirtualBox
- 2- Criando a máquina virtual Linux Ubuntu 18
- 3- Instalação do Linux Ubuntu 18
- 4- Configuração de Rede no Linux Ubuntu 18

1.1- VirtualBox

- Pode ser baixado livremente em www.virtualbox.org (Innotek/Sun/Oracle)
- VirtualBox Open Source Edition (OSE),
Versão inteiramente livre, que tem todo o código-fonte disponível e pode ser usada dentro dos termos da GPL. Esta é a distribuição que é incluída nos repositórios das distribuições, que pode ser instalada diretamente usando o gerenciador de pacotes.
- VirtualBox Personal Use and Evaluation License (PUEL)
Inclui alguns componentes proprietários e é distribuída através de uma licença específica (inclusão do suporte a USB).

1.2- Instalação

- Windows

Baixar e instalar o arquivo executável

- Linux

Synaptic ou usando o *apt-get install virtualbox-ose* no Terminal

Após a instalação, o ícone para o VirtualBox é criado em: Aplicações → Ferramentas do Sistema

2.1- Criando as máquinas virtuais

Criar Máquina Virtual

Nome e Sistema Operacional

Escolha um nome descritivo para a nova máquina virtual e selecione o tipo de sistema operacional que você pretende instalar nela. O nome que você escolher será utilizado pelo VirtualBox para identificar esta máquina.

Nome:

Tipo: 

Versão:

Modo Expert < Voltar (B) Próximo (N) > Cancelar

2.1- Criando as máquinas virtuais



2.1- Criando as máquinas virtuais



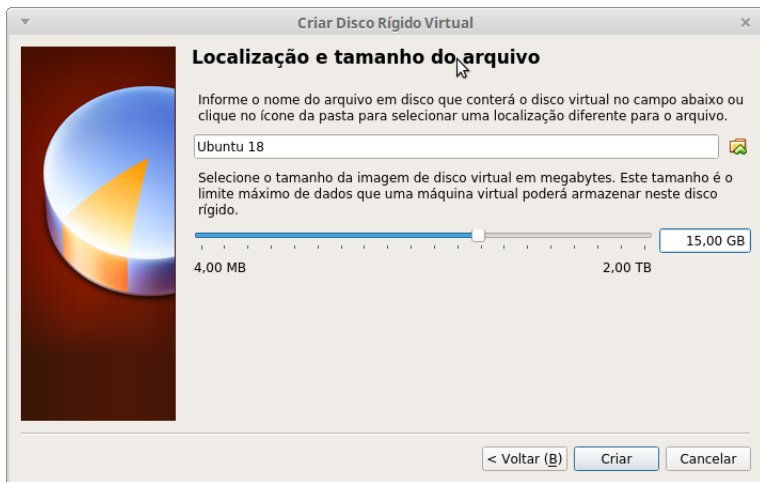
2.1- Criando as máquinas virtuais



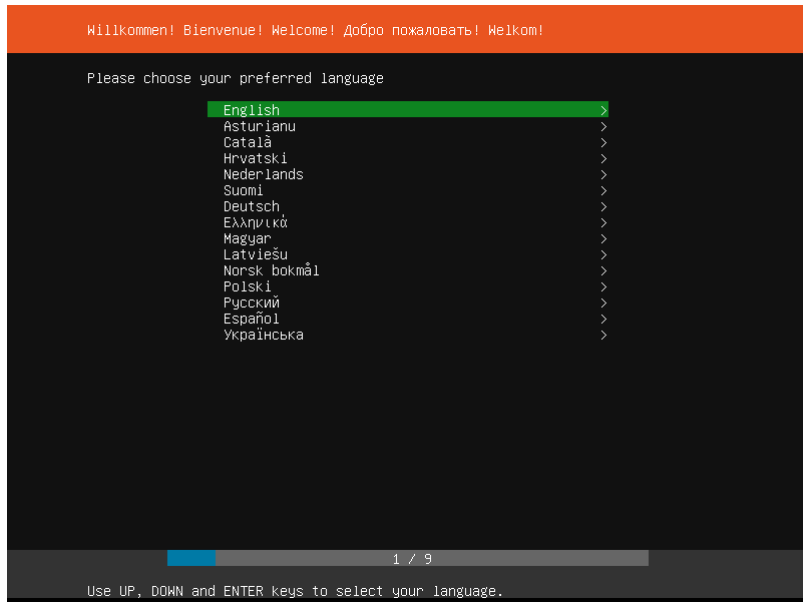
2.1- Criando as máquinas virtuais



2.1- Criando as máquinas virtuais



3.1- Instalação do Linux Ubuntu 18



3.1- Instalação do Linux Ubuntu 18

Keyboard configuration

Please select your keyboard layout below, or select "Identify keyboard" to detect your layout automatically.

Layout:

Variant:

[Identify keyboard]

[Done]
[Back]

2 / 9

Use UP, DOWN and ENTER keys to select your keyboard.

3.1- Instalação do Linux Ubuntu 18

Keyboard configuration

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2 / 9

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3.1- Instalação do Linux Ubuntu 18

Keyboard configuration

Please select your keyboard layout below, or select "Identify keyboard" to detect your layout automatically.

Layout:

Variant:

[Identify keyboard]

Keyboard auto-detection

Keyboard detection starting. You will be asked a series of questions about your keyboard. Press escape at any time to go back to the previous screen.

[OK]

[Cancel]

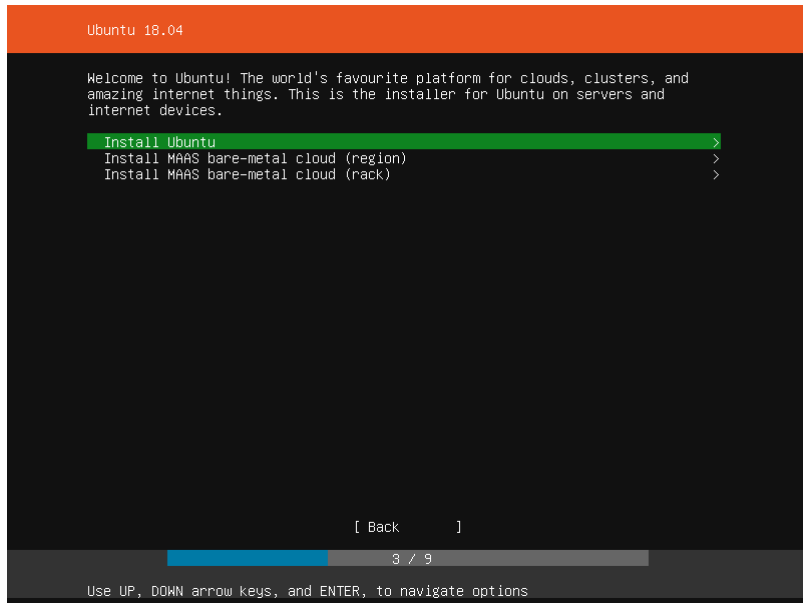
[Done]

[Back]

2 / 9

Use UP, DOWN and ENTER keys to select your keyboard.

3.1- Instalação do Linux Ubuntu 18



3.1- Instalação do Linux Ubuntu 18

Network connections

Configure at least one interface this server can use to talk to other machines, and which preferably provides sufficient access for updates.

```
enp0s3    > Will use DHCP for IPv4, currently has address: 10.0.2.15
           Has no IPv6 configuration, currently has address: fe80::a00:27ff:fe72:5db2
           08:00:27:72:5d:b2 Intel 82540EM Gigabit (1G)
enp0s8    > Has no IPv6 configuration, currently has address: fe80::a00:27ff:fe3a:6635
           08:00:27:3a:66:35 Intel 82540EM Gigabit (1G)
```

[Done]
[Back]

4 / 9

Select an interface to configure it or select Done to continue



3.1- Instalação do Linux Ubuntu 18

Configure proxy

If this system requires a proxy to connect to the internet, enter its details here.

Proxy address:

If you need to use a HTTP proxy to access the outside world, enter the proxy information here. Otherwise, leave this blank.

The proxy information should be given in the standard form of "http://[[user] [:pass]@]host[:port]/".

[Done]
[Cancel]

4 / 9

Select an interface to configure it or select Done to continue



3.1- Instalação do Linux Ubuntu 18

Filesystem setup

The installer can guide you through partitioning an entire disk or, if you prefer, you can do it manually.

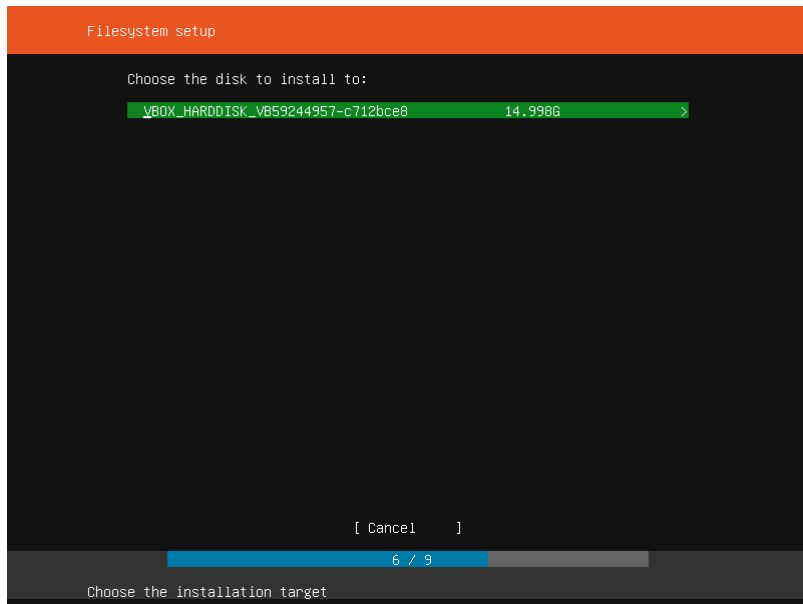
If you choose to partition an entire disk you will still have a chance to review and modify the results.

```
[ Use An Entire Disk ]  
[ Manual               ]  
[ Back                 ]
```

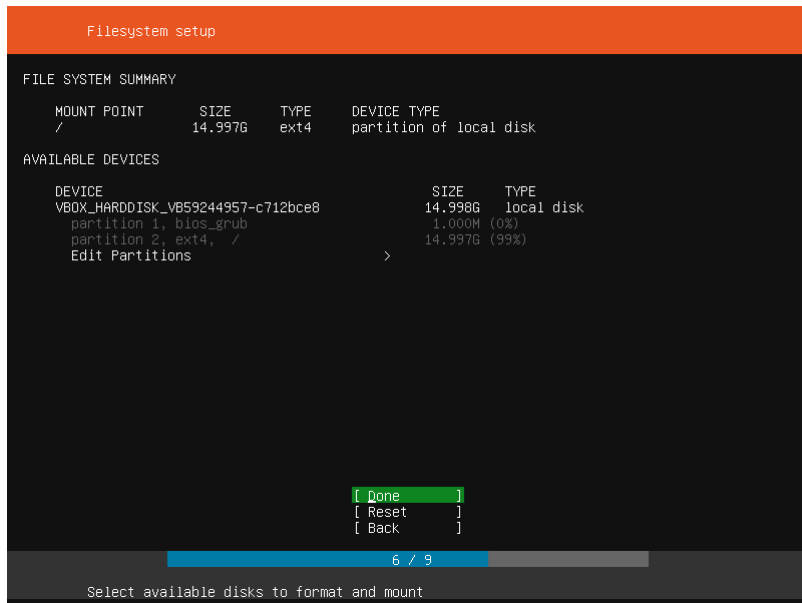
6 / 9

Choose guided or manual partitioning

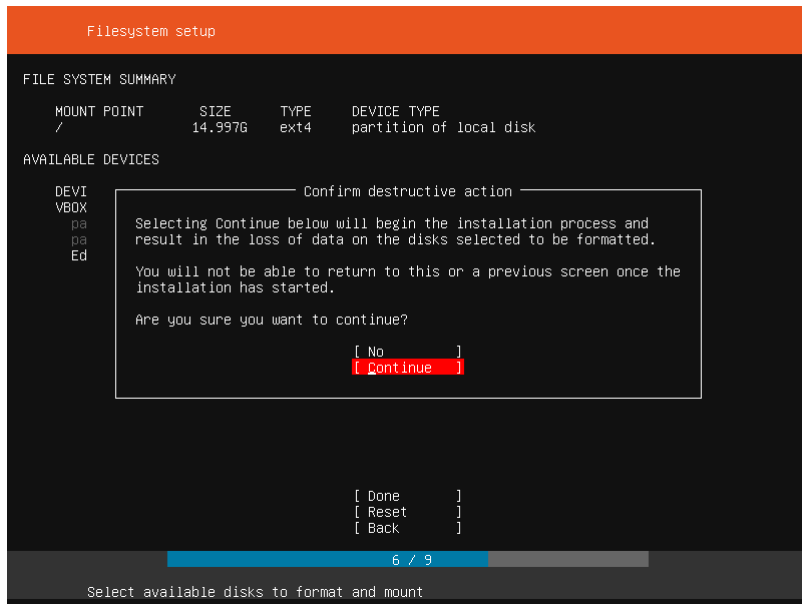
3.1- Instalação do Linux Ubuntu 18



3.1- Instalação do Linux Ubuntu 18



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3.1- Instalação do Linux Ubuntu 18

Profile setup

Enter the username and password (or ssh identity) you will use to log in to the system.

Your name:

Your server's name:
The name it uses when it talks to other computers.

Pick a username:

Choose a password:

Confirm your password:

Import SSH identity:
You can import your SSH keys from Github or Launchpad.

Import Username:

[Done]

6 / 9

Install in progress: running 'c u r t i n b l o c k - m e t a c u s t o / m'

3.1- Instalação do Linux Ubuntu 18

Installing system

```
curtin command install
preparing for installation
configuring storage
  running 'curtin block-meta custom'
    curtin command block-meta
      removing previous storage devices
      configuring disk: disk-0
      configuring partition: part-0
      configuring partition: part-1
      configuring format: fs-0
      configuring mount: mount-0
configuring network
  running 'curtin net-meta auto'
    curtin command net-meta
writing install sources to disk
  running 'curtin extract'
    curtin command extract
      acquiring and extracting image from cp:///media/filesystem \
```

[View full log]

8 / 9

Thank you for using Ubuntu!



3.1- Instalação do Linux Ubuntu 18

Installation complete!

```
----- Finished install! -----  
configuring mount: mount-0  
configuring network  
  running 'curtin net-meta auto'  
  curtin command net-meta  
writing install sources to disk  
  running 'curtin extract'  
  curtin command extract  
    acquiring and extracting image from cp:///media/filesystem  
configuring installed system  
  running 'curtin curthooks'  
  curtin command curthooks  
    configuring apt  
    installing missing packages  
    installing kernel  
    setting up swap  
    apply networking config  
    writing etc/fstab  
    configuring multipath  
    updating packages on target system  
    configuring pollinate user-agent on target system  
finalizing installation  
  running 'curtin hook'  
  curtin command hook  
executing late commands
```

[View full log]

[Reboot Now]

9 / 9

Thank you for using Ubuntu!

3.1- Instalação do Linux Ubuntu 18

```
Ubuntu 18.04 LTS asoa tty1
```

```
asoa login: _
```

3.1- Instalação do Linux Ubuntu 18

```
Ubuntu 18.04 LTS asoa tty1

asoa login: asoa
Password:
Last login: Tue Jun  5 14:49:38 UTC 2018 on tty1
Welcome to Ubuntu 18.04 LTS (GNU/Linux 4.15.0-22-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information disabled due to load higher than 1.0

34 packages can be updated.
11 updates are security updates.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

asoa@asoa:~$
```

3.1- Criação da senha do root no Linux Ubuntu 18

```
Ubuntu 18.04 LTS asoa tty1
asoa login: asoa
Password:
Last login: Tue Jun  5 14:49:38 UTC 2018 on tty1
Welcome to Ubuntu 18.04 LTS (GNU/Linux 4.15.0-22-generic x86_64)

 * Documentation:  https://help.ubuntu.com
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System information disabled due to load higher than 1.0

34 packages can be updated.
11 updates are security updates.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

asoa@asoa:~$ sudo passwd root
```

3.1- Criação da senha do root no Linux Ubuntu 18

```
Ubuntu 18.04 LTS asoa tty1
asoa login: asoa
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System information disabled due to load higher than 1.0

34 packages can be updated.
11 updates are security updates.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

asoa@asoa:~$ sudo passwd root
[sudo] password for asoa:
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
asoa@asoa:~$ _
```

3.1- Criação da senha do root no Linux Ubuntu 18

```
asoa@asoa:~$ su_
```

3.1- Criação da senha do root no Linux Ubuntu 18

```
asoa@asoa:~$ su
Password:
root@asoa:/home/asoa# _
```

3.2- Atualização do Repositório do Ubuntu 18

```
asoa@asoa:~$ su
Password:
root@asoa:/home/asoa# apt-get update
```

4.1- Configuração de Rede no Linux Ubuntu 18

```
root@asoa:/home/asoa# ifconfig_
```


4.1- Configuração de Rede no Linux Ubuntu 18

```
root@asoa:/home/asoa# ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
    inet6 fe80::a00:27ff:fe72:5db2 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:72:5d:b2 txqueuelen 1000 (Ethernet)
    RX packets 23499 bytes 26622051 (26.6 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 5960 bytes 376084 (376.0 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

enp0s8: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet6 fe80::a00:27ff:fe3a:6635 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:3a:66:35 txqueuelen 1000 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 19 bytes 3442 (3.4 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 372 bytes 29978 (29.9 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 372 bytes 29978 (29.9 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

root@asoa:/home/asoa#
```

4.1- Configuração de Rede no Linux Ubuntu 18

```
root@asoa:/home/asoa# nano /etc/netplan/50-cloud-init.yaml
```

4.1- Configuração de Rede no Linux Ubuntu 18

GNU nano 2.9.3

/etc/netplan/50-cloud-init.yaml

```
# This file is generated from information provided by
# the datasource.  Changes to it will not persist across an instance.
# To disable cloud-init's network configuration capabilities, write a file
# /etc/cloud/cloud.cfg.d/99-disable-network-config.cfg with the following:
# network: {config: disabled}
network:
  ethernets:
    enp0s3:
      addresses: []
      dhcp4: true
      optional: true
    enp0s8:
      addresses: []
      dhcp4: true
      optional: true
  version: 2
```

4.1- Configuração de Rede com IPv4

GNU nano 2.9.3

/etc/netplan/50-cloud-init.yaml

```
# This file is generated from information provided by
# the datasource.  Changes to it will not persist across an instance.
# To disable cloud-init's network configuration capabilities, write a file
# /etc/cloud/cloud.cfg.d/99-disable-network-config.cfg with the following:
# network: {config: disabled}
network:
  ethernets:
    enp0s3:
      addresses: []
      dhcp4: true
      optional: true
    enp0s8:
      addresses: [192.168.13.1/24]
      dhcp4: false
      optional: false_
  version: 2
```

4.1- Configuração de Rede com IPv4

```
root@asoa:/home/asoa# netplan apply
[ OK ] Stopped Wait for Network to be Configured.
       Stopping Network Service...
[ OK ] Stopped Network Service.
       Starting Network Service...
[ OK ] Started Network Service.
root@asoa:/home/asoa#
```

4.1- Configuração de Rede com IPv4

```
root@asoa:/home/asoa# ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
    inet6 fe80::a00:27ff:fe72:5db2 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:72:5d:b2 txqueuelen 1000 (Ethernet)
    RX packets 154960 bytes 174414193 (174.4 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 41755 bytes 2540686 (2.5 MB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

enp0s8: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.13.1 netmask 255.255.255.0 broadcast 192.168.13.255
    inet6 fe80::a00:27ff:fe3a:6635 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:3a:66:35 txqueuelen 1000 (Ethernet)
    RX packets 25 bytes 4577 (4.5 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 32 bytes 5948 (5.9 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)
```

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