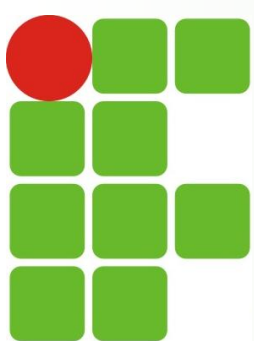


**INSTITUTO FEDERAL DE  
EDUCAÇÃO, CIÊNCIA E TECNOLOGIA**  
RIO GRANDE DO NORTE  
Campus Currais Novos



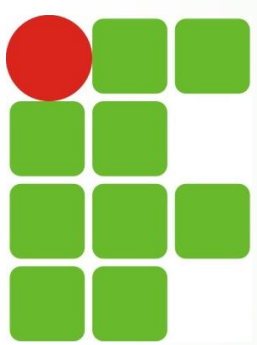
# Gerência e Configuração de Serviços para Internet

## Aula 03 – Ambiente VM e Instalação do Debian



# Objetivos

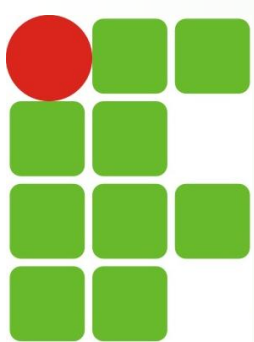
- Preparar o ambiente virtual para instalação das máquinas;
- Conhecer as estratégias para instalação de um sistema operacional Linux;
- Instalação do Debian;



# Virtualização

- Virtual Box 4.0.4





# Virtual Box

The screenshot displays the Oracle VM VirtualBox Manager window. The interface is in Portuguese and shows a list of virtual machines on the left and configuration details for the selected 'debian' VM on the right.

**Oracle VM VirtualBox Gerenciador**

Arquivo (F) Máquina Ajuda (H)

Novo Configurações Iniciar (T) Descartar (I)

Detalhes Snapshots (28)

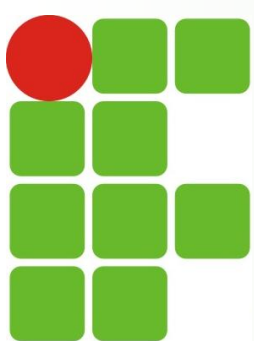
**Virtual Machines List:**

- Parallel Computing (Desligada)
- dns1 (Desligada)
- debian (Snapshot 28) (Desligada)**
- debian-grafica (Desligada)
- debian\_1 (Desligada)
- ubuntu 10.10 (Desligada)

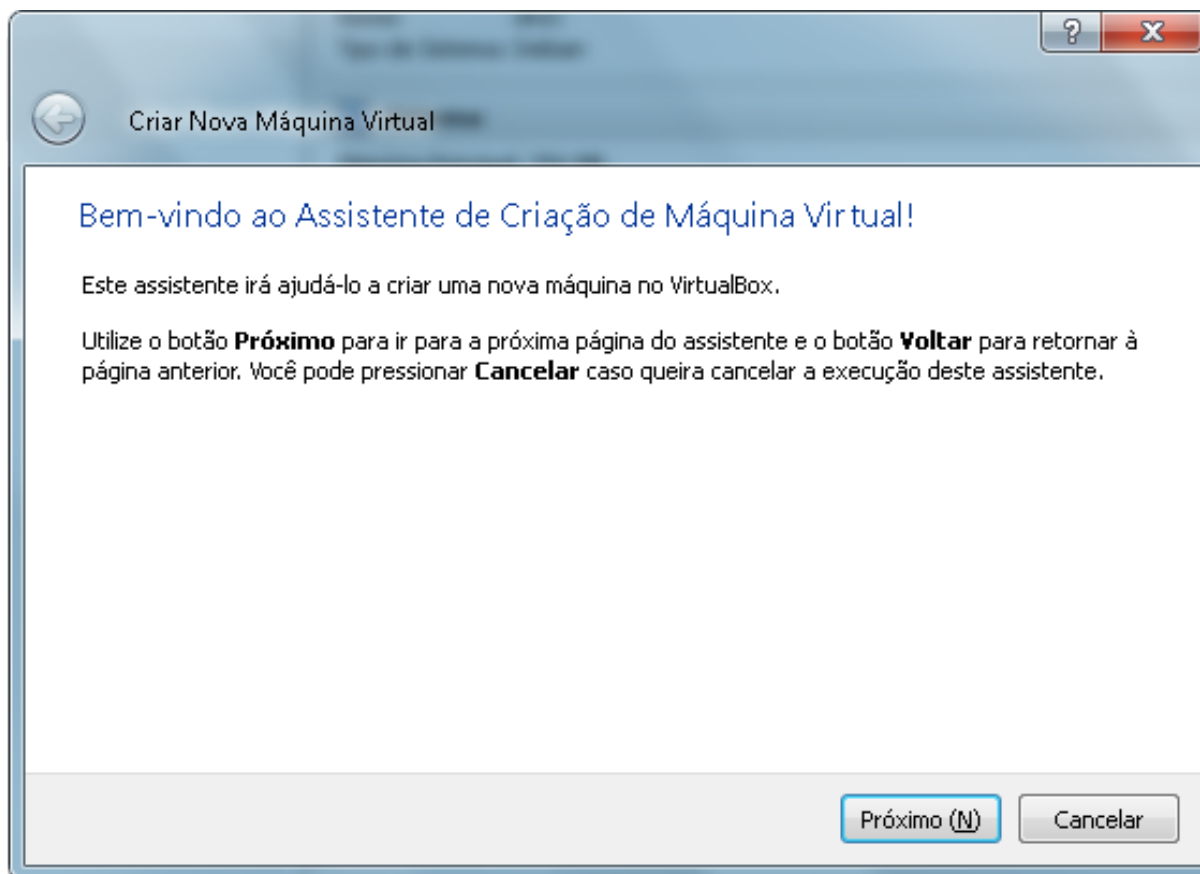
**Configuração do VM 'debian':**

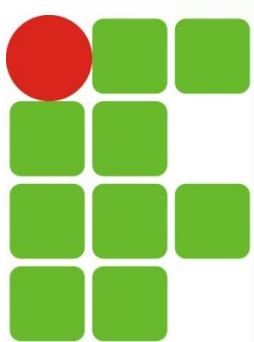
- Geral:** Nome: debian, Tipo de Sistema: Debian
- Sistema:** Memória Principal: 256 MB, Processadores: 2, Ordem de Boot: Disquete, CD/DVD-ROM, Disco Rígido, Aceleração: VT-x/AMD-V, Paginação
- Exibir:** Memória de Vídeo: 12 MB, Servidor de Desktop Remoto: Desabilitado
- Armazenamento:** Controladora IDE, IDE Secundário Master (CD/DVD): debian-6.0.0-i386-netinst.iso (189,15 MB), Controladora SATA, Porta SATA 0: debian1.vdi (Normal, 2,00 GB)
- Áudio:** Driver do Hospedeiro: Windows DirectSound, Controladora: ICH AC97

**Pré-Visualização:** A janela de pré-visualização mostra a tela de inicialização do sistema operacional Debian com o nome 'debian' exibido no centro.



# Criando Máquinas Virtuais





# Criando Máquinas Virtuais

?

X

← Criar Nova Máquina Virtual


## Nome da VM e Tipo de Sistema Operacional

Entre com o nome da nova máquina virtual e selecione o tipo de sistema operacional Convidado que você planeja instalar em sua máquina virtual.

O nome da máquina virtual geralmente indica quais programas e qual configuração de hardware foi utilizada. Este nome será utilizado para identificar sua máquina virtual em todos os componentes do VirtualBox.

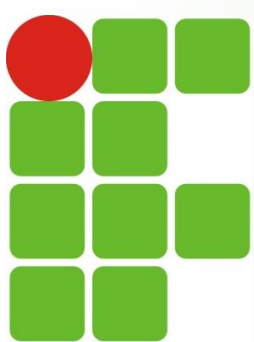
Nome

OS Type

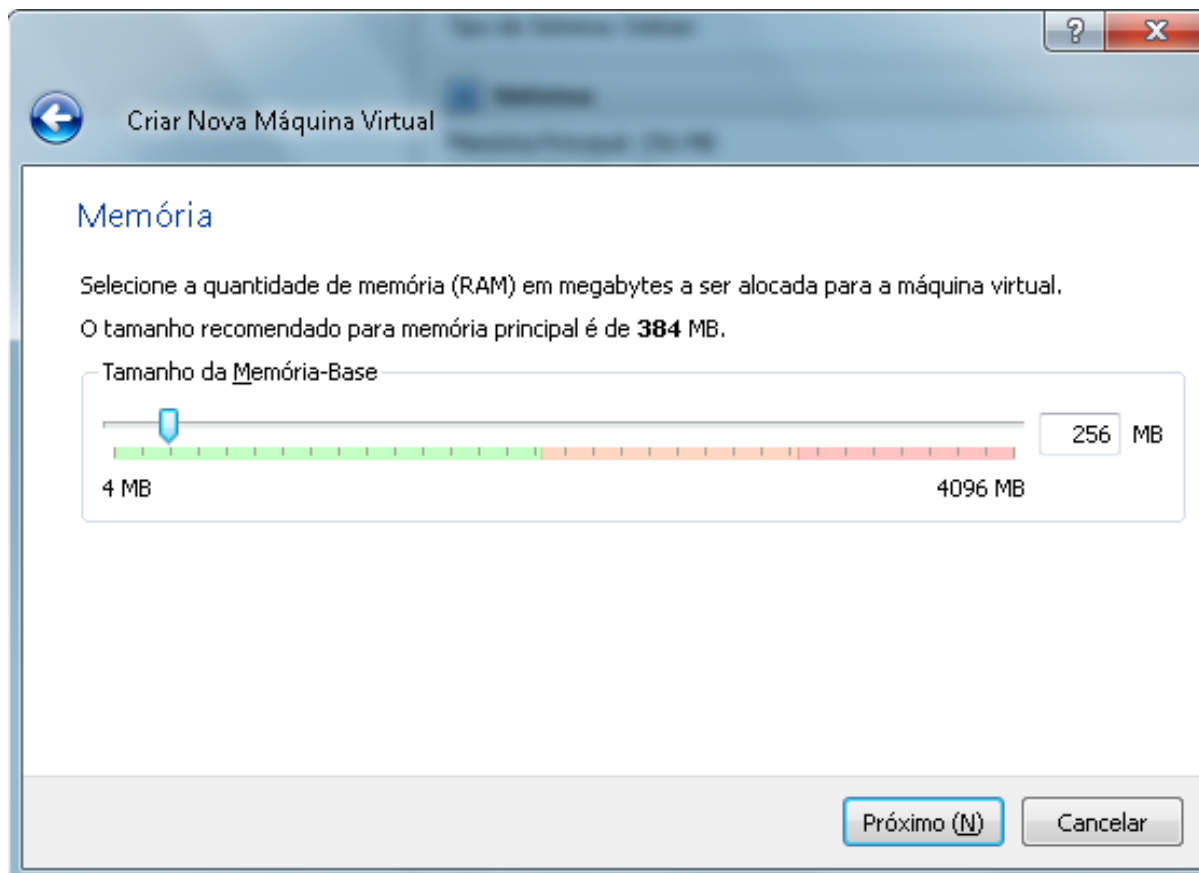
Sistema Operacional: Linux 

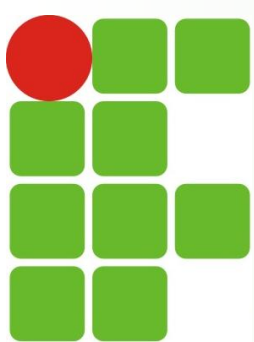
Versão: Debian

Próximo (N) Cancelar

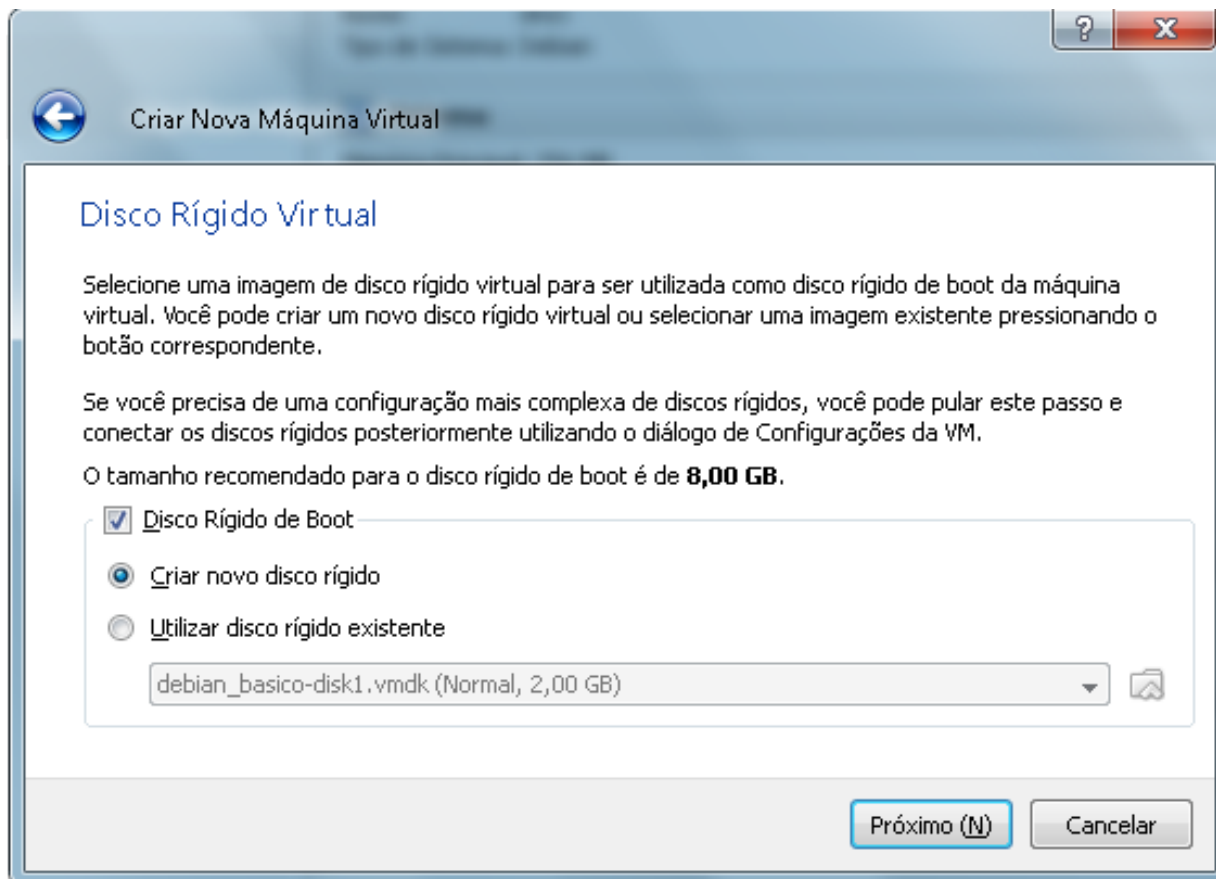


# Criando Máquinas Virtuais

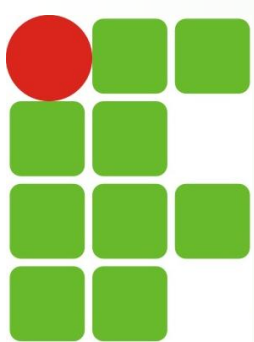




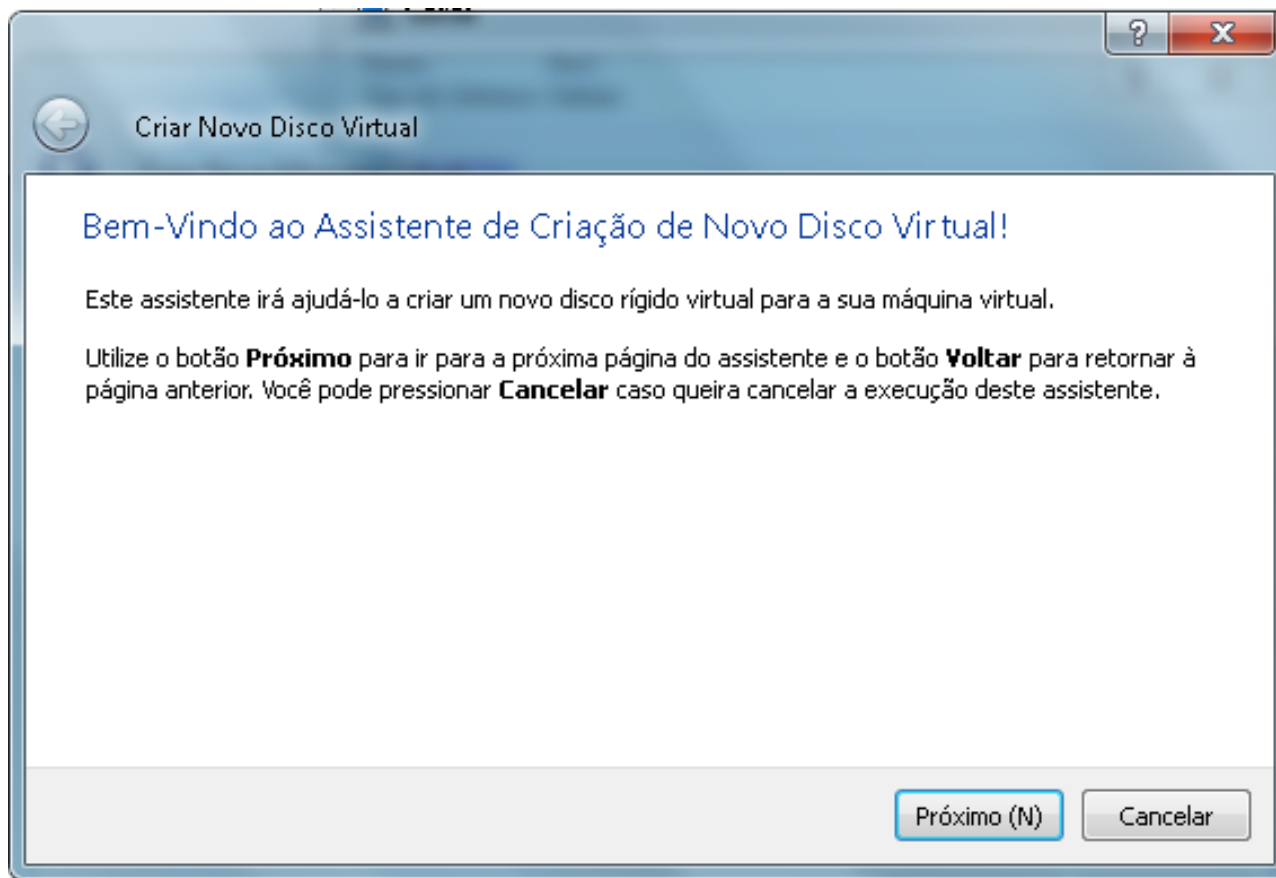
# Criando Máquinas Virtuais

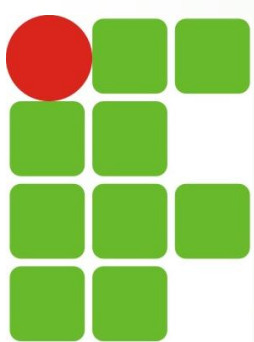




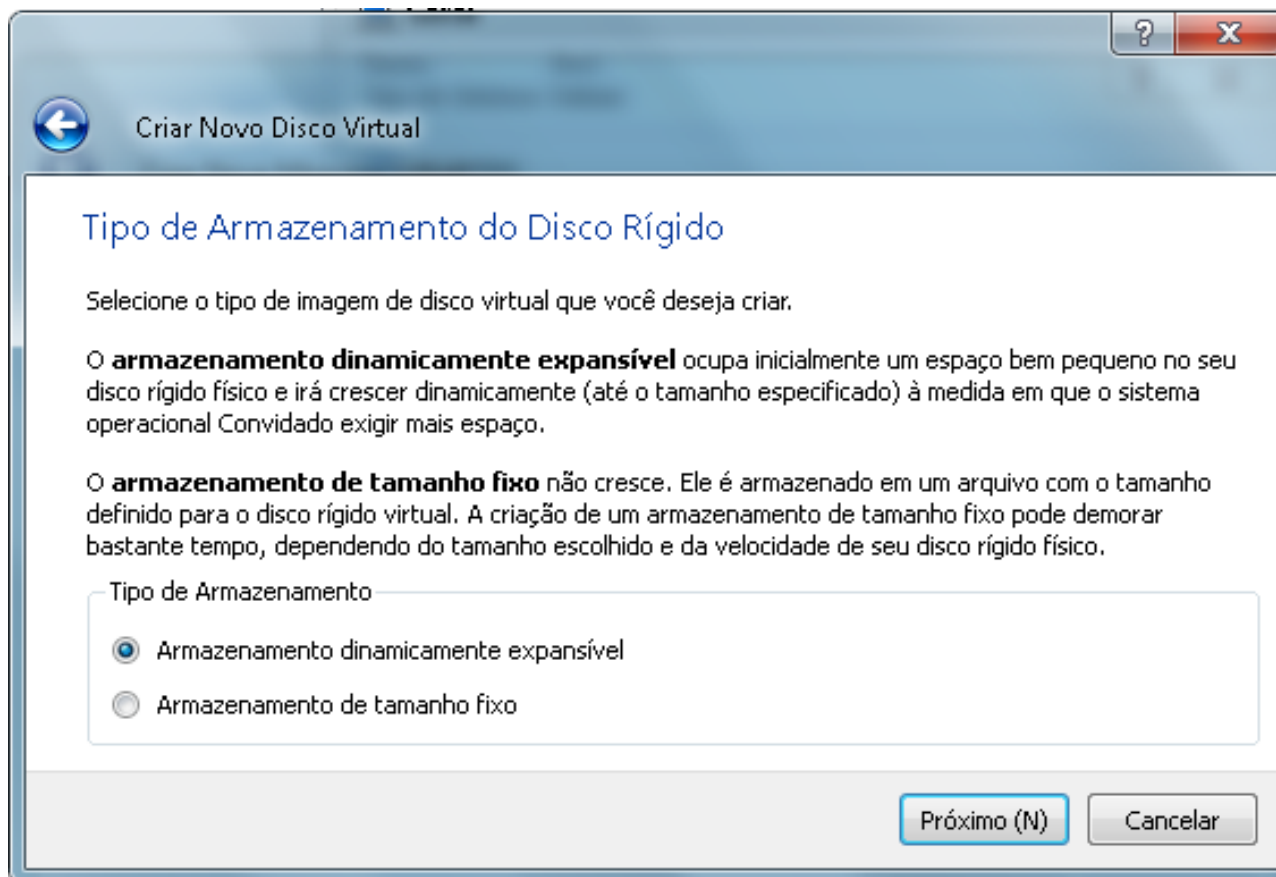


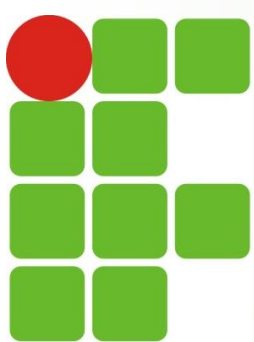
# Criando Máquinas Virtuais



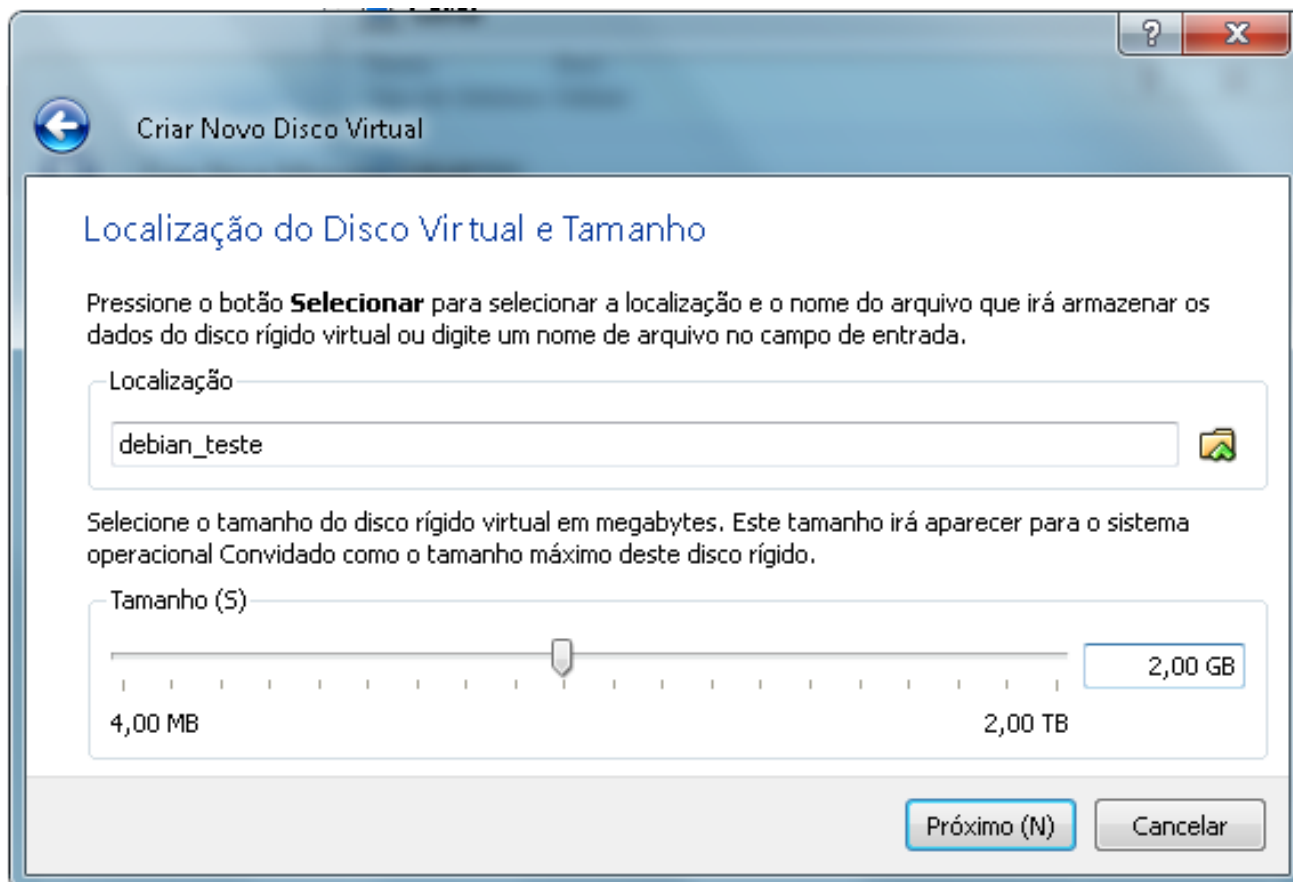


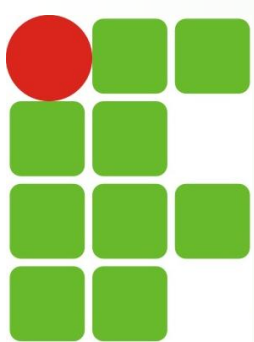
# Criando Máquinas Virtuais



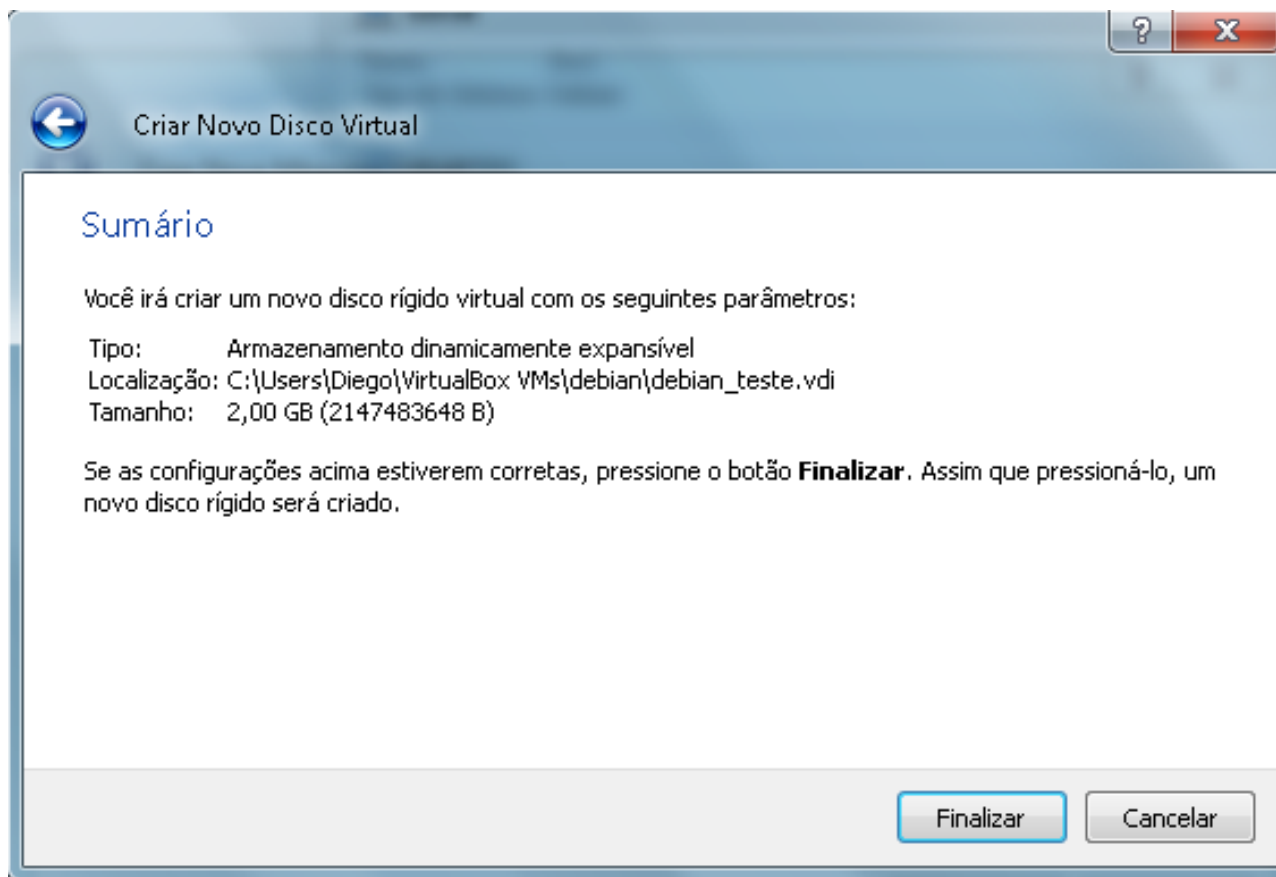


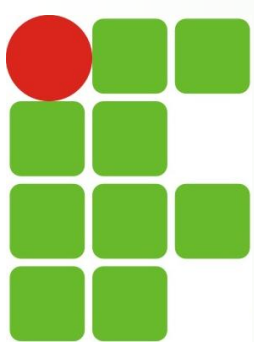
# Criando Máquinas Virtuais



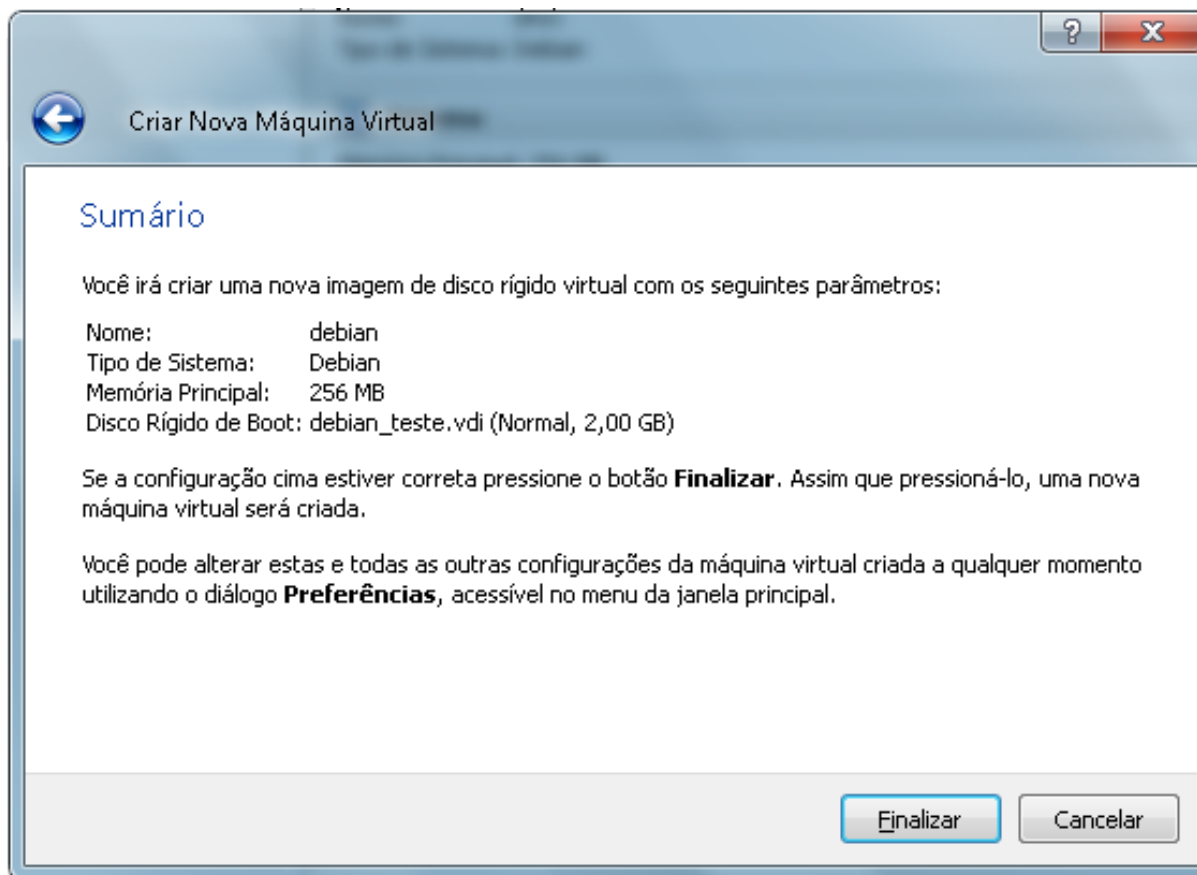


# Criando Máquinas Virtuais

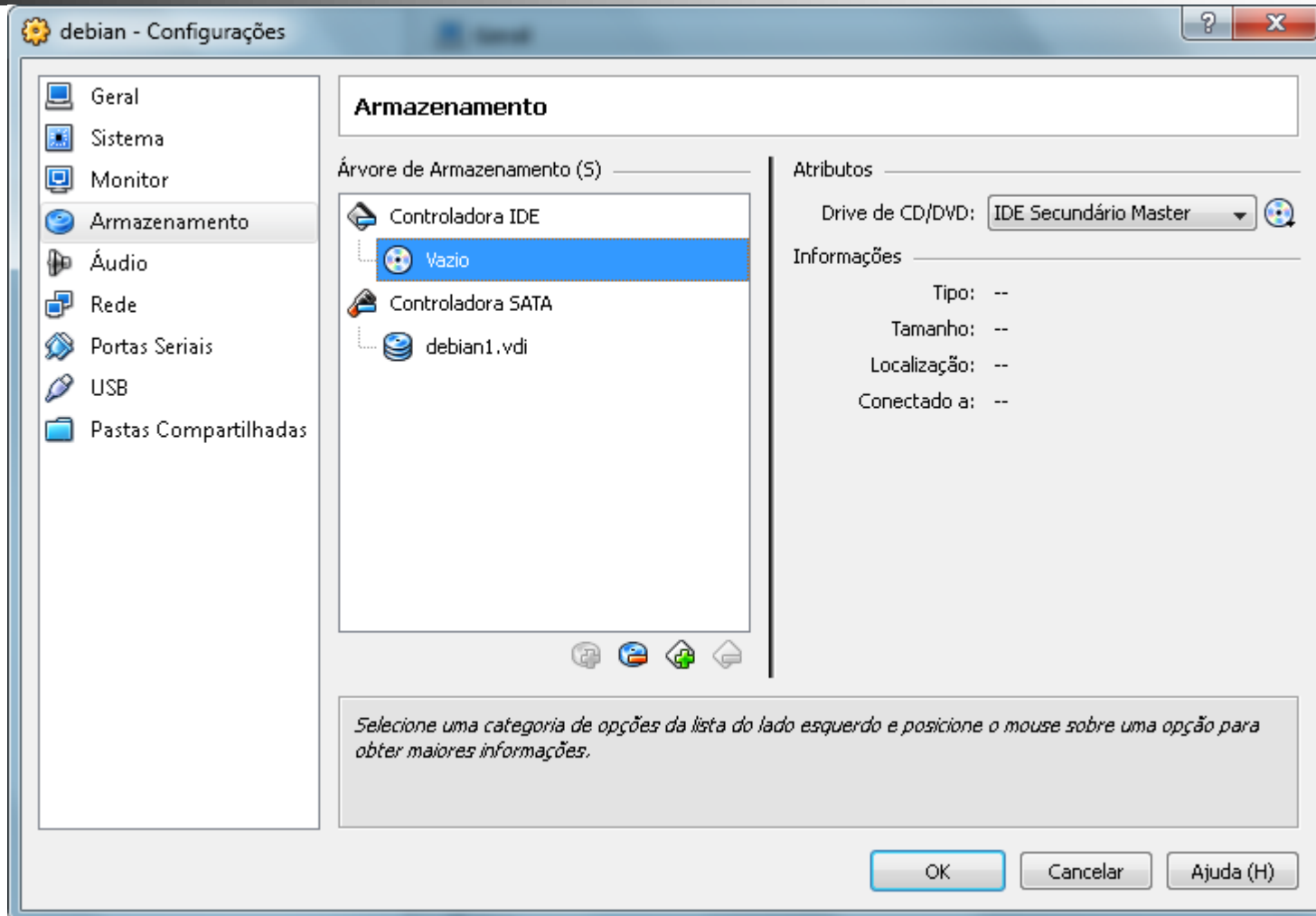


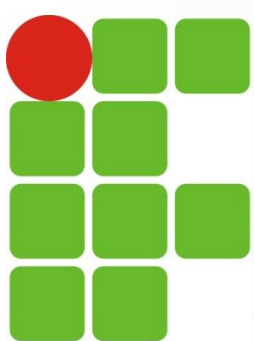


# Criando Máquinas Virtuais

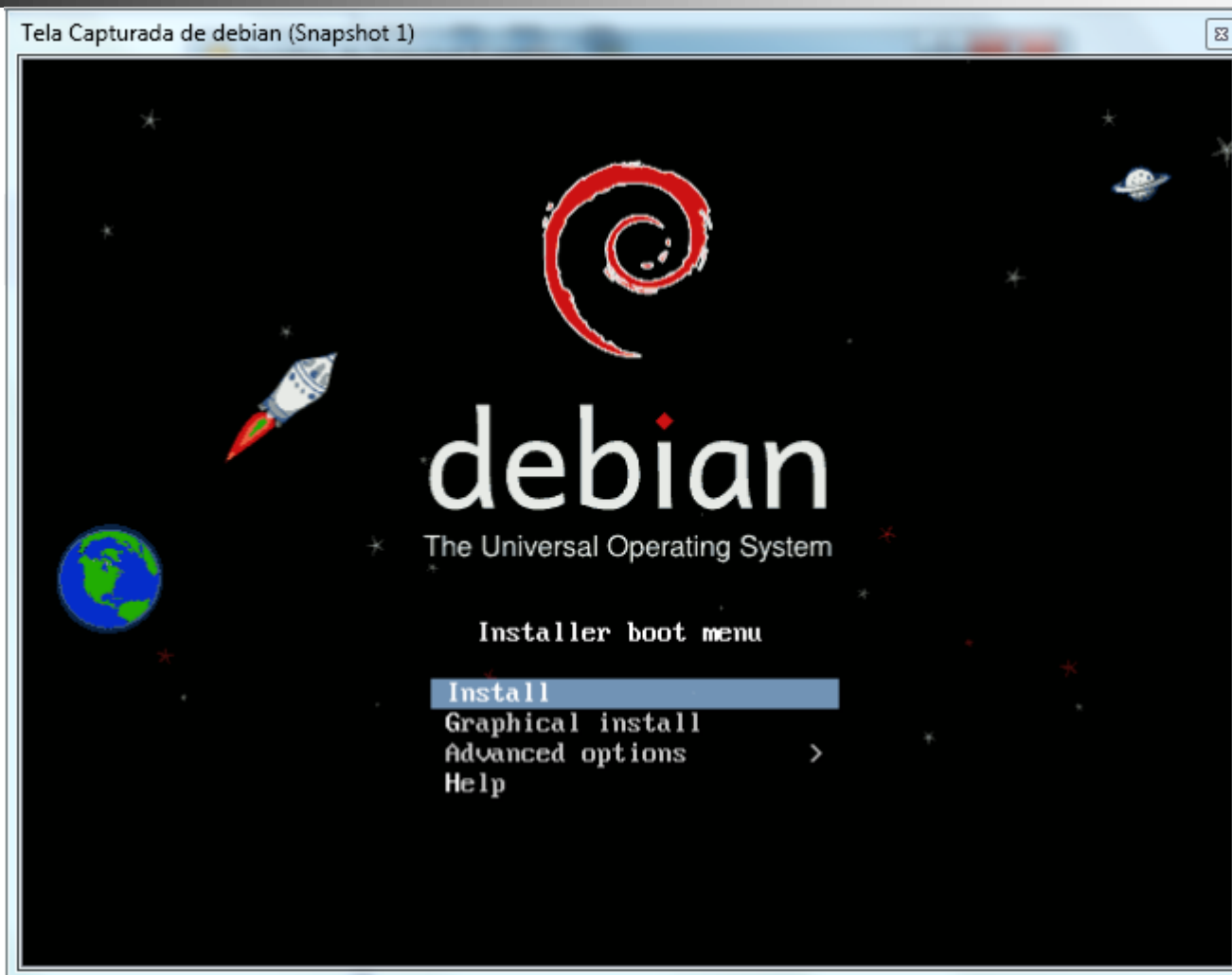


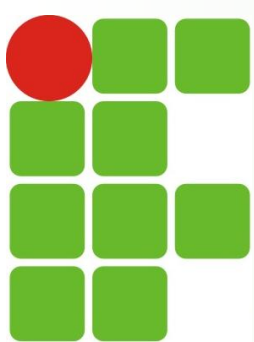
# Configurando a VM



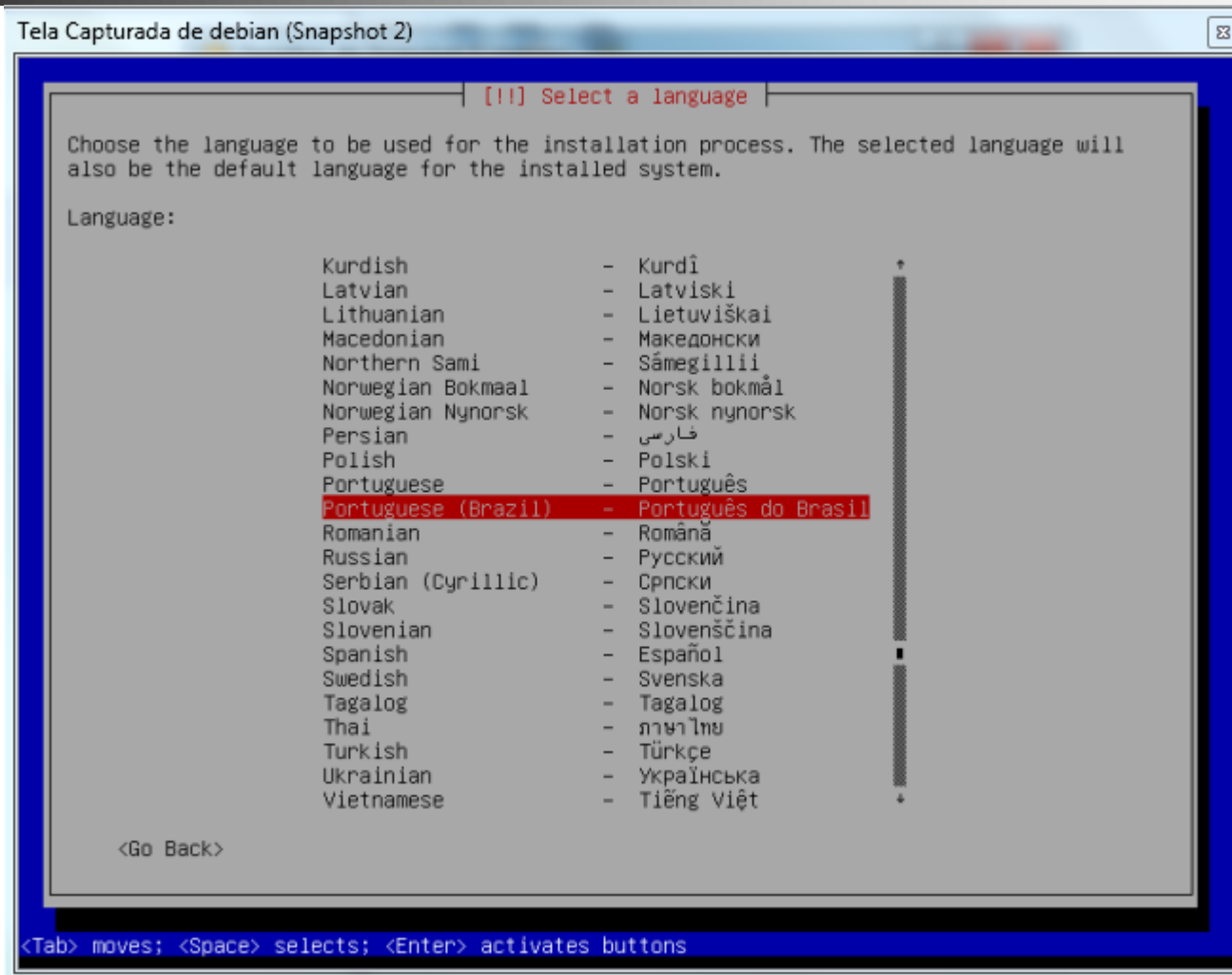


# Instalando o Debian

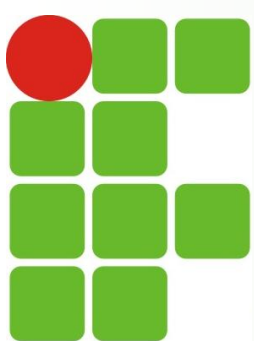




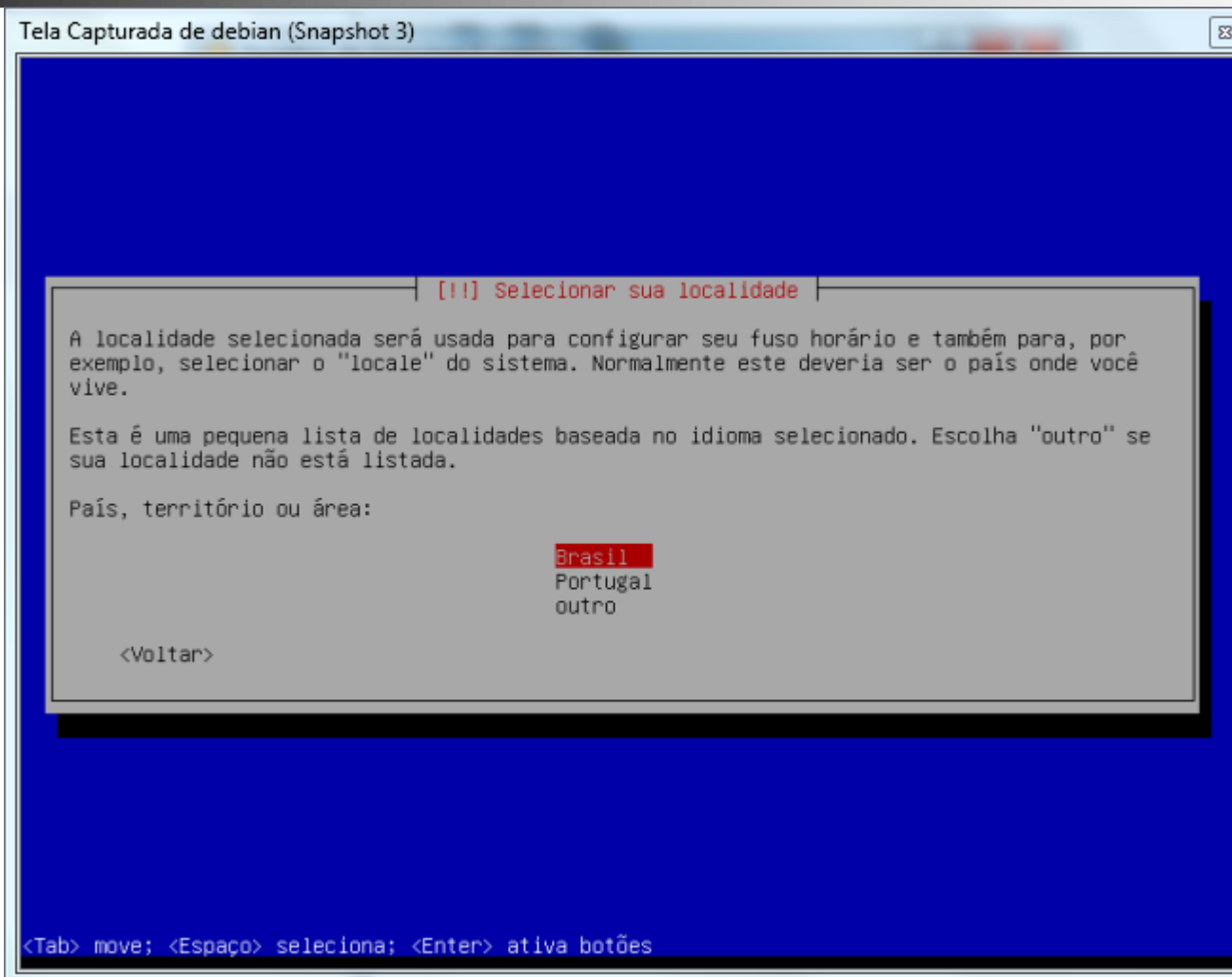
# Instalando o Debian

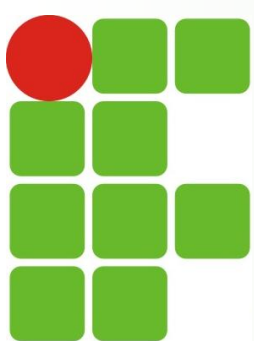




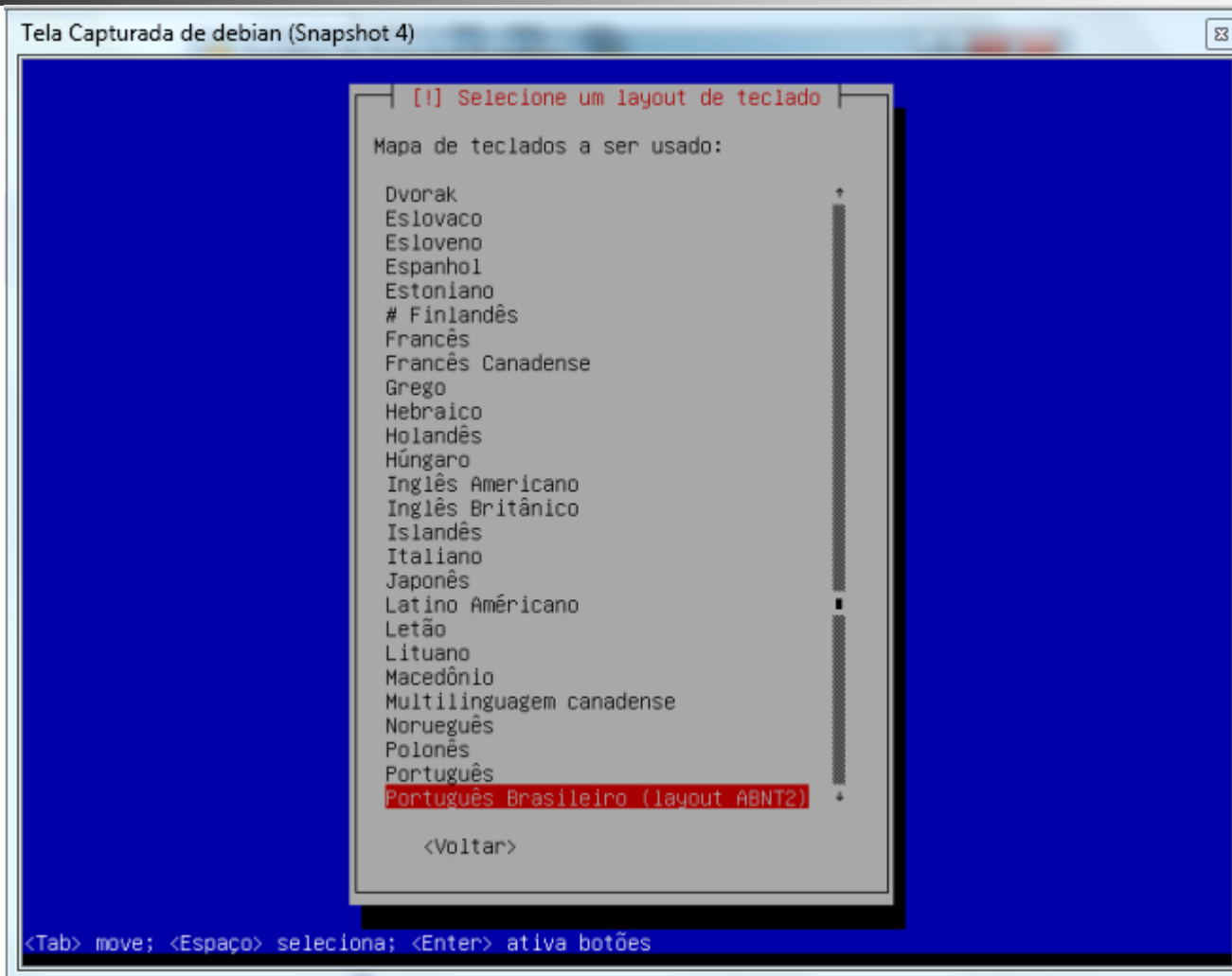


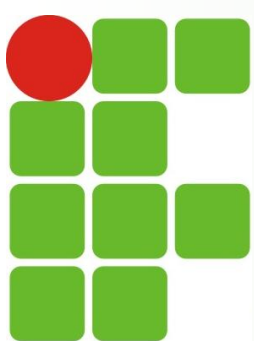
# Instalando o Debian



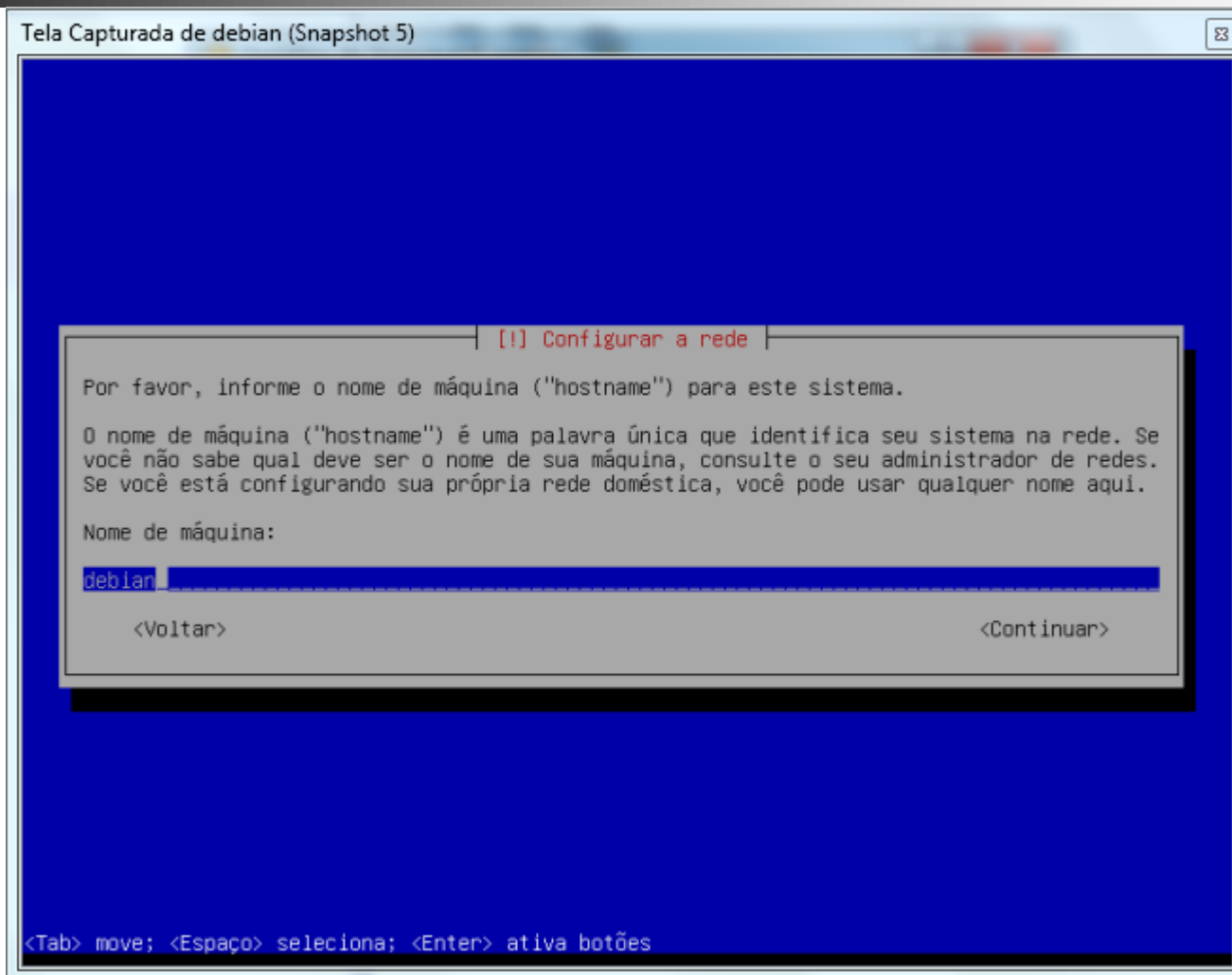


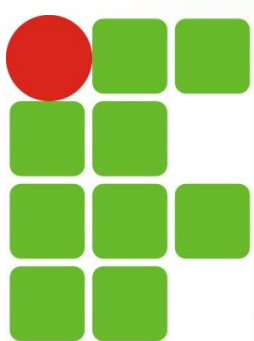
# Instalando o Debian



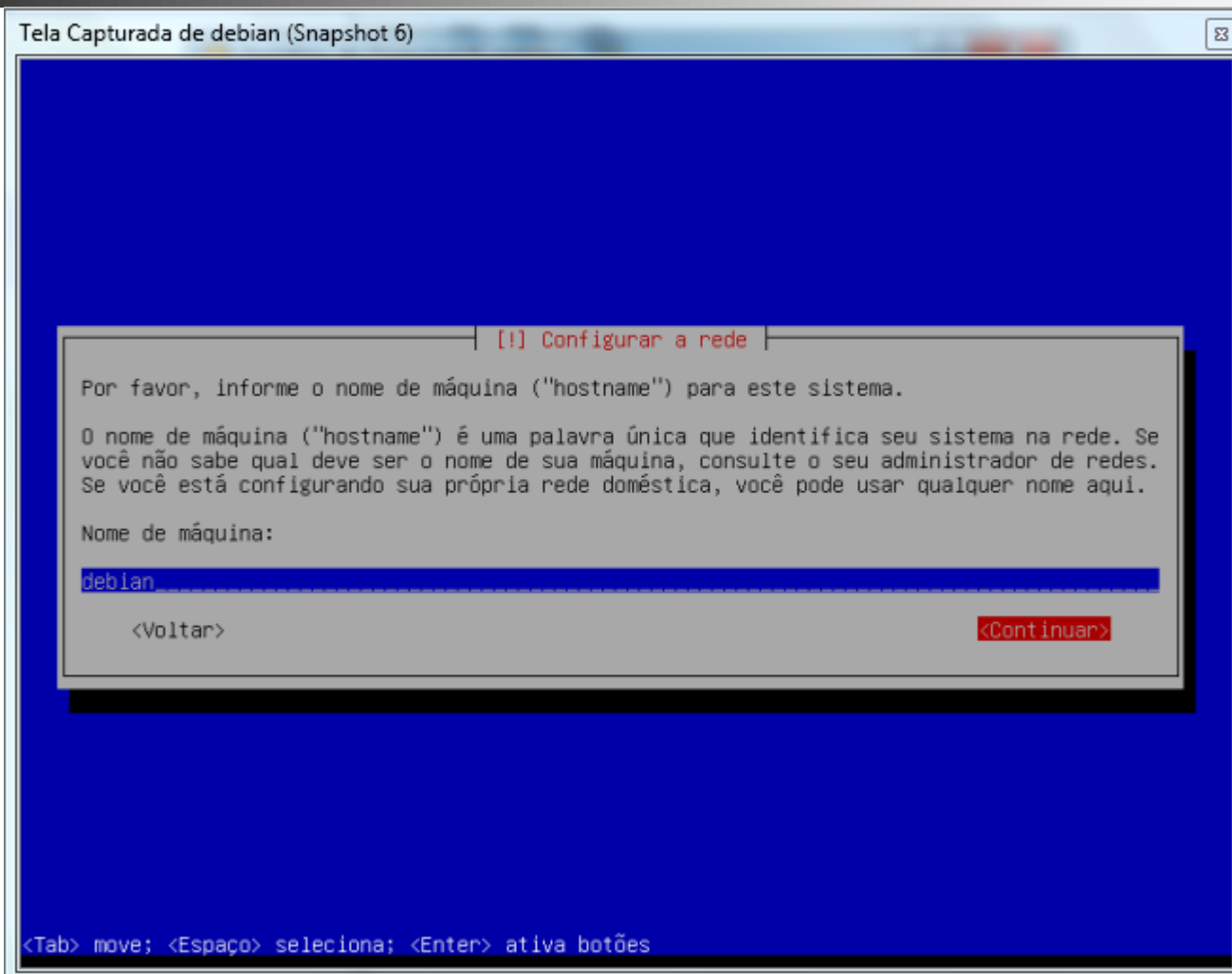


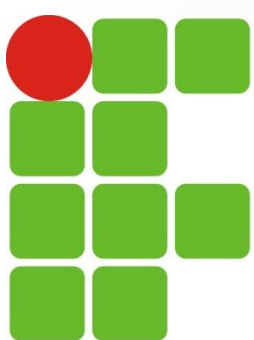
# Instalando o Debian



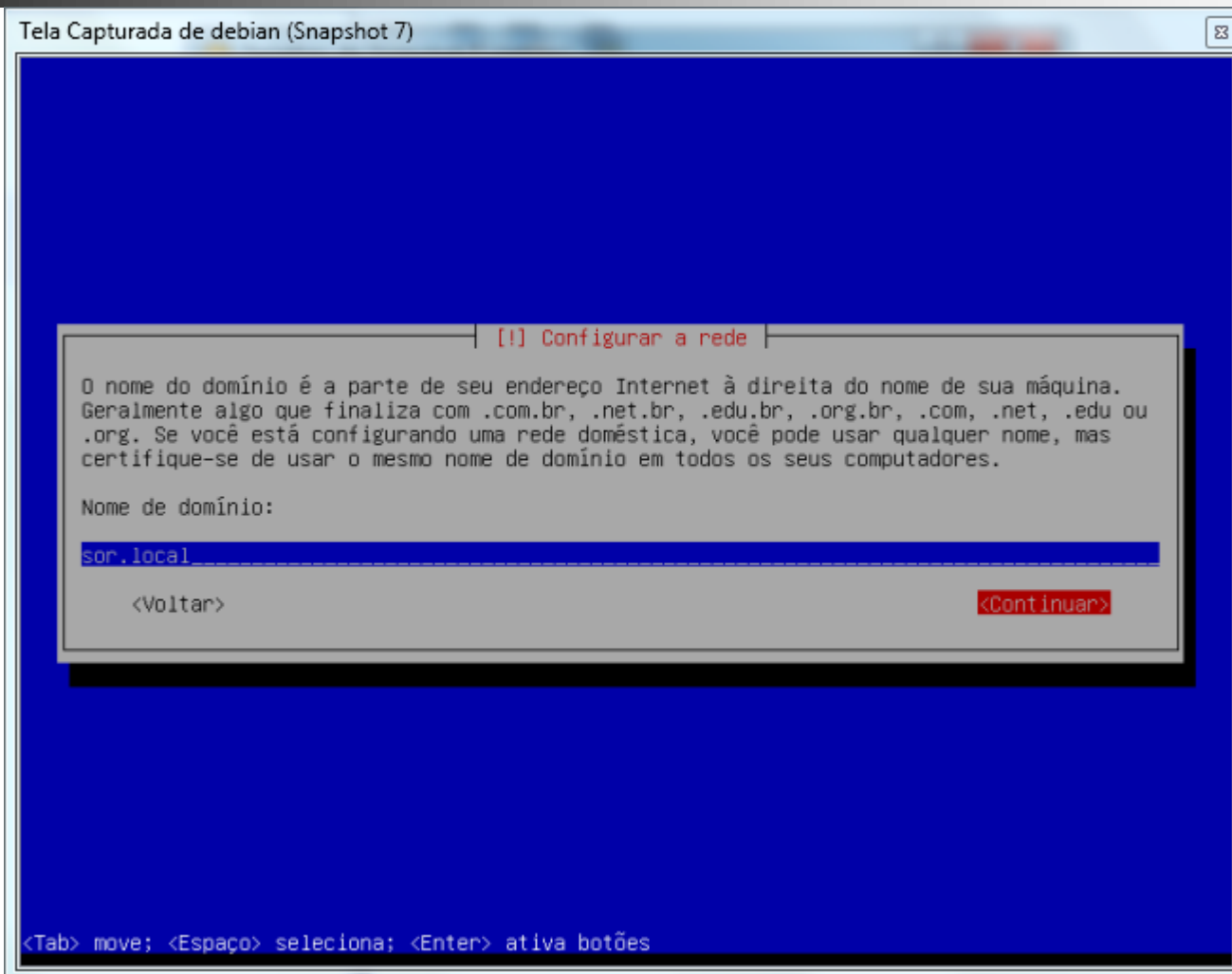


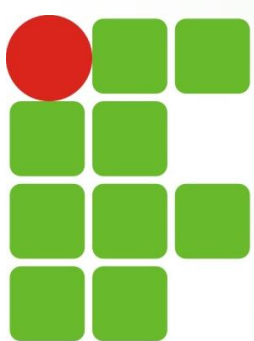
# Instalando o Debian



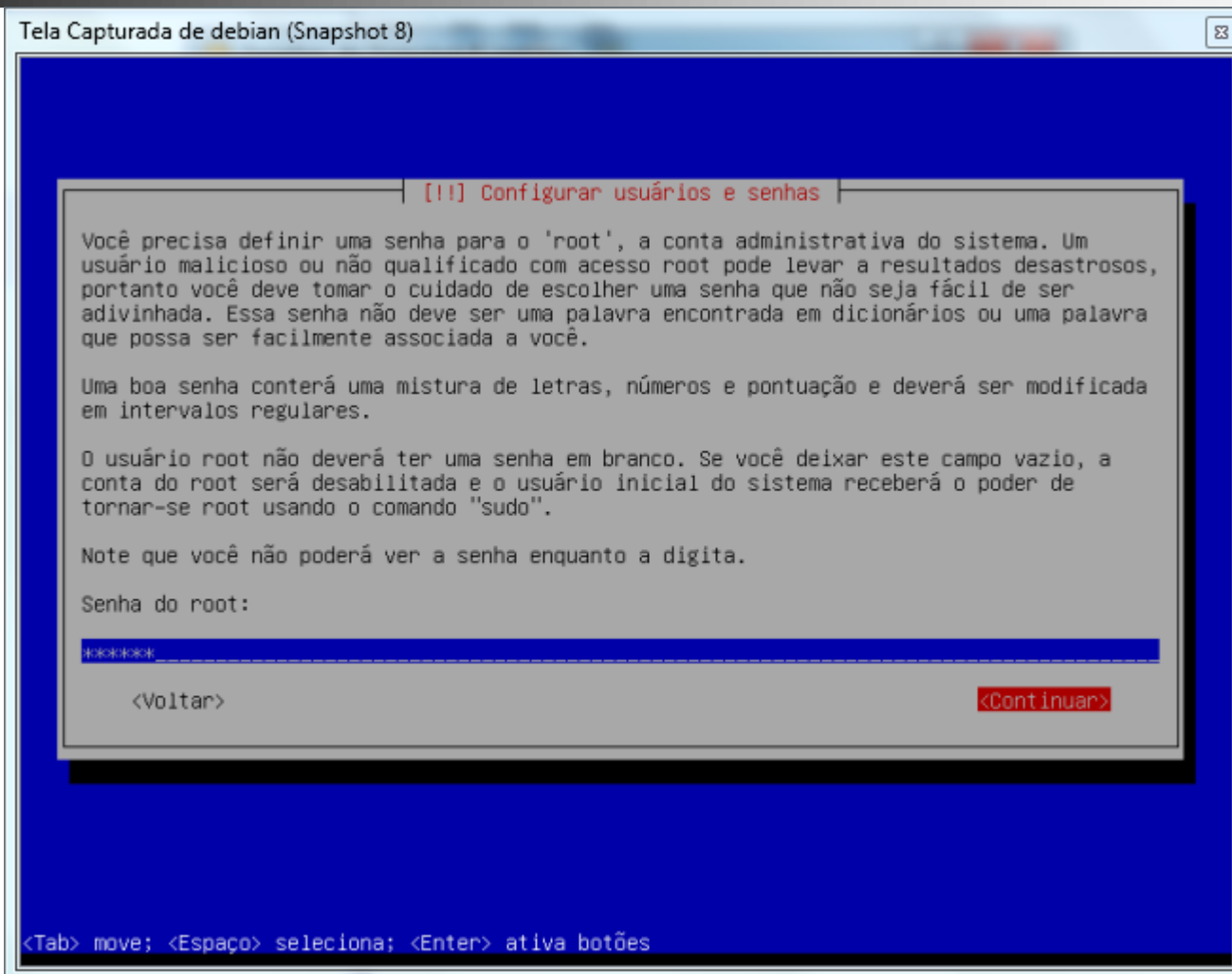


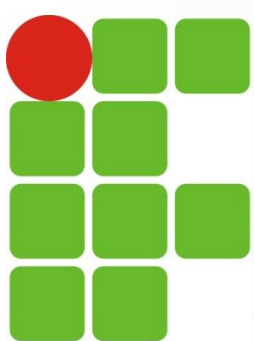
# Instalando o Debian



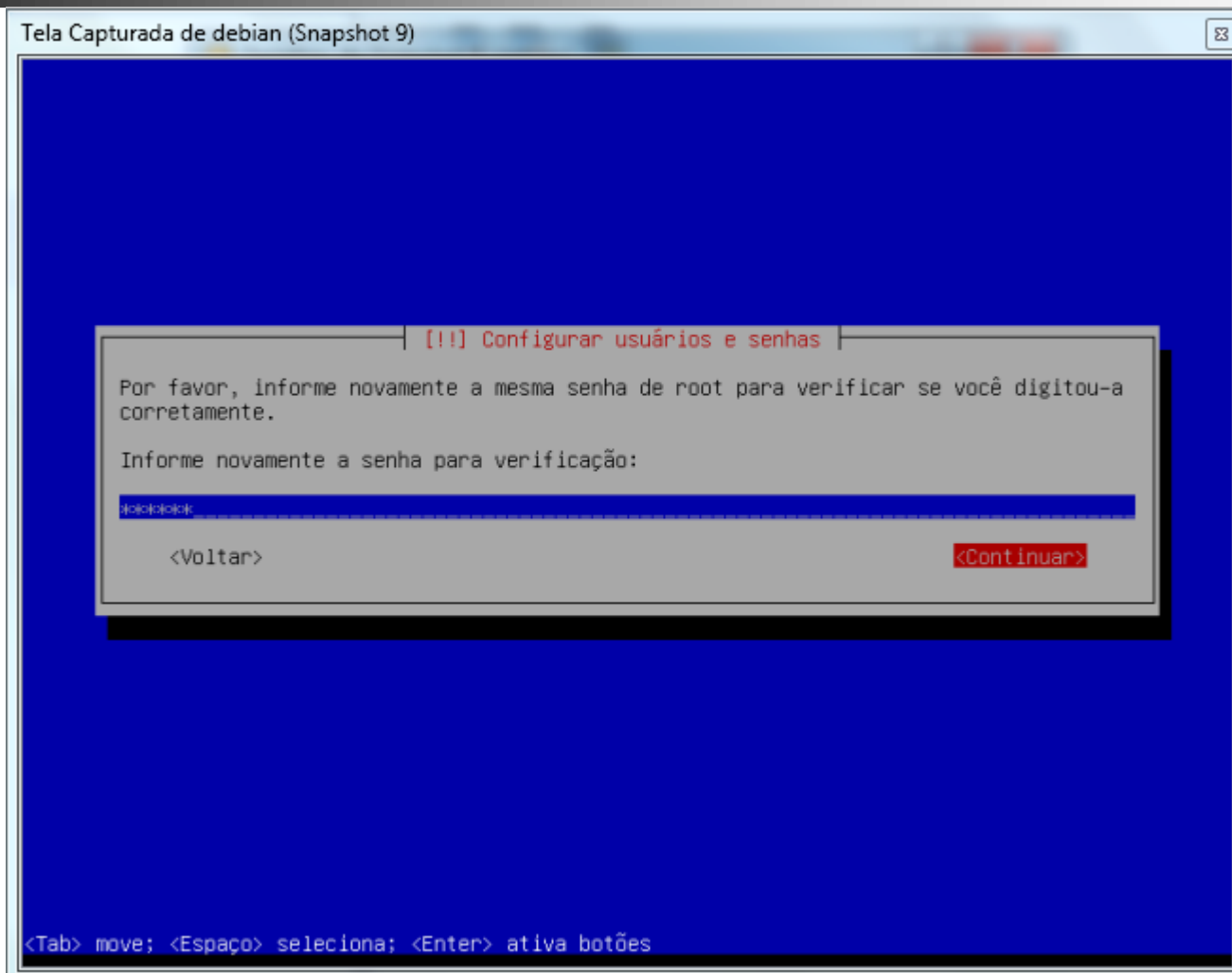


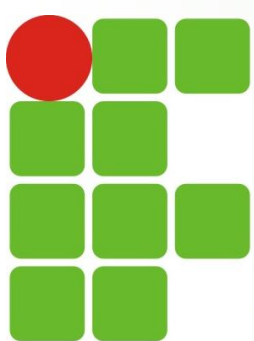
# Instalando o Debian



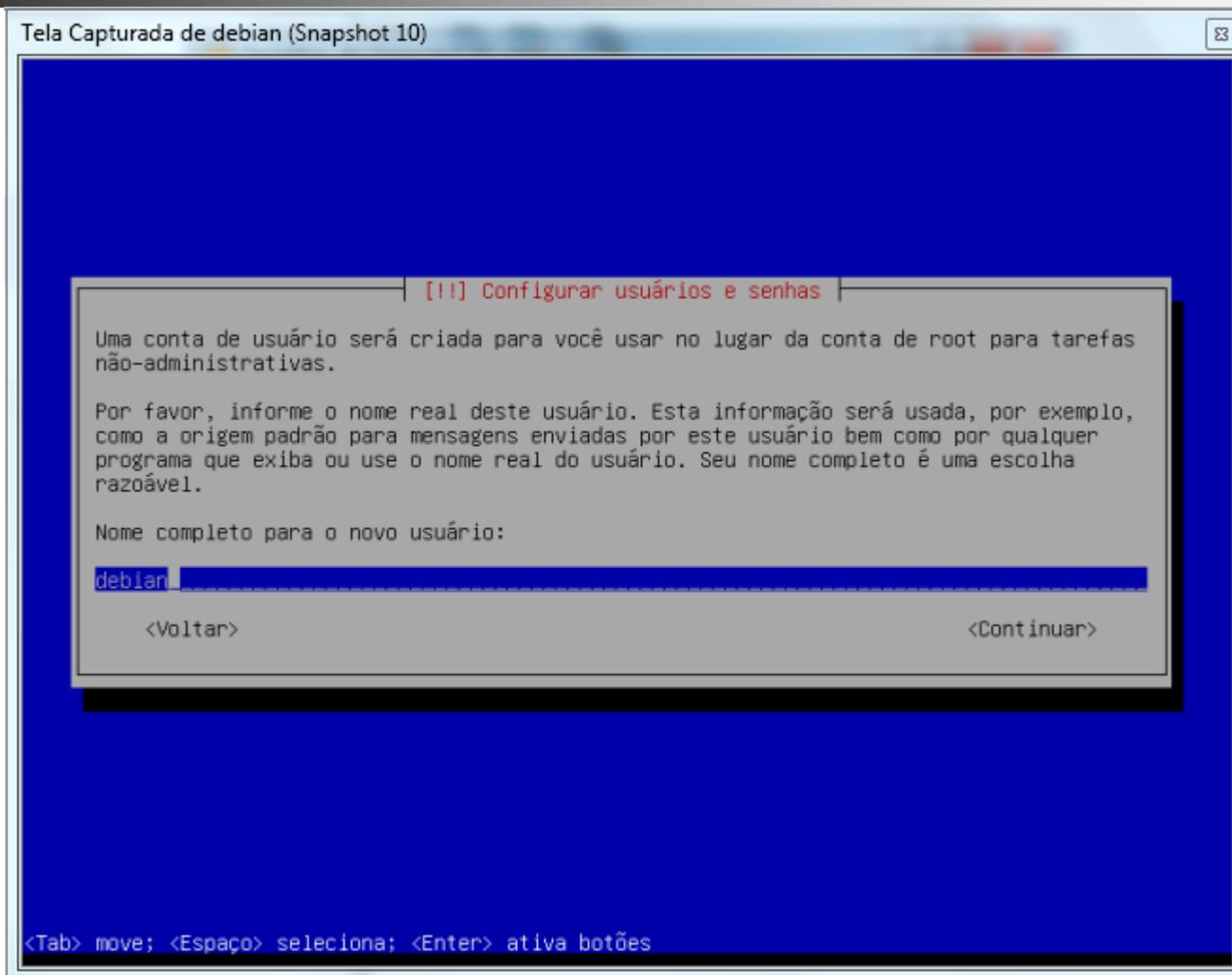


# Instalando o Debian

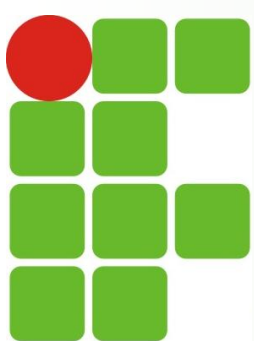




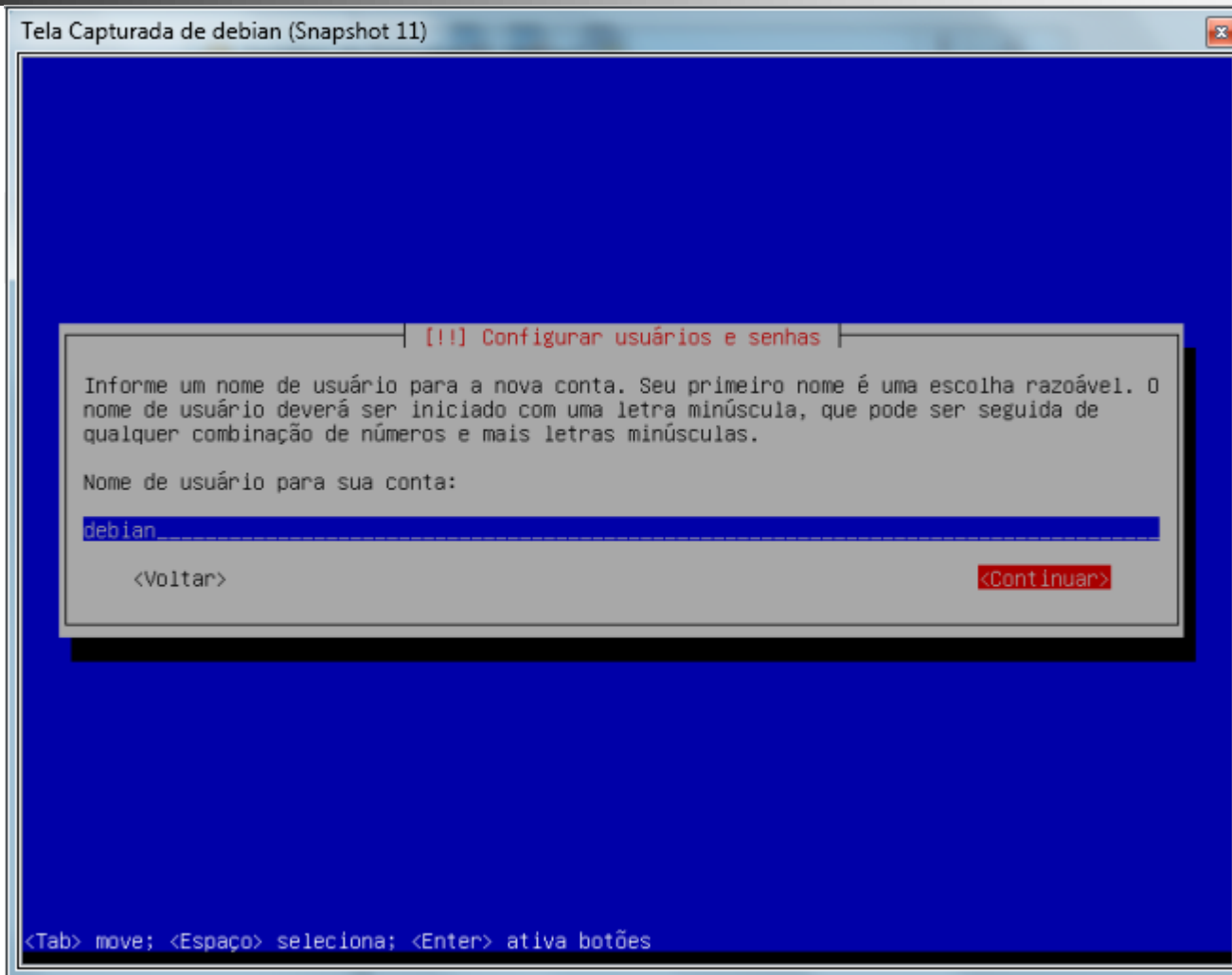
# Instalando o Debian





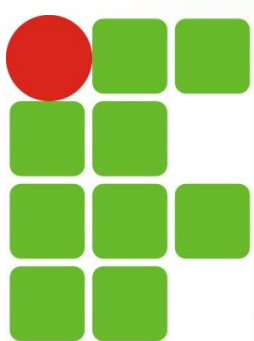


# Instalando o Debian

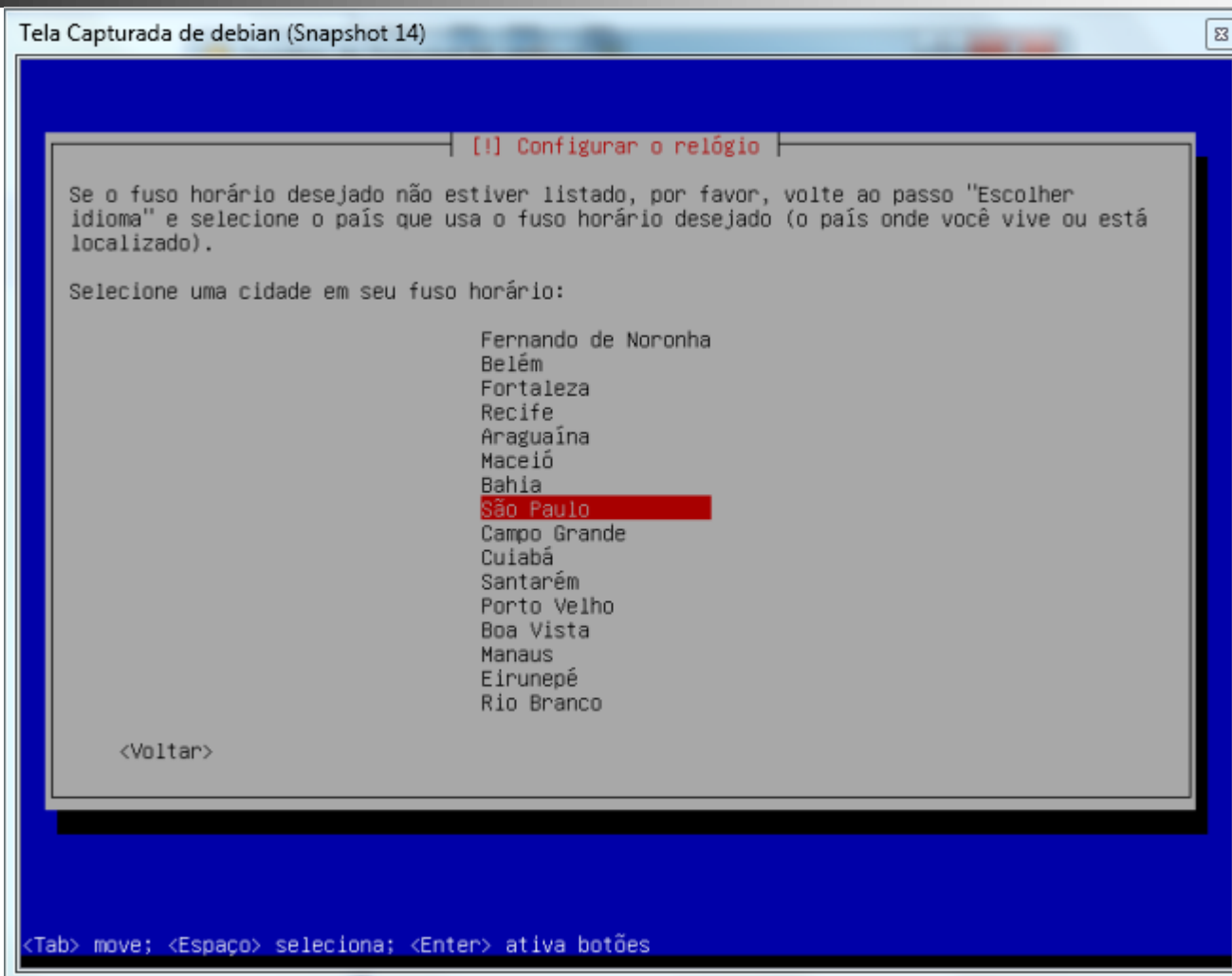


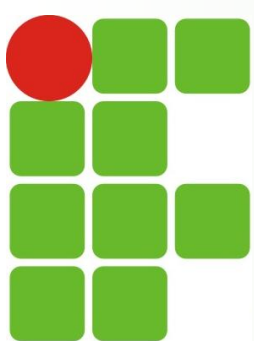




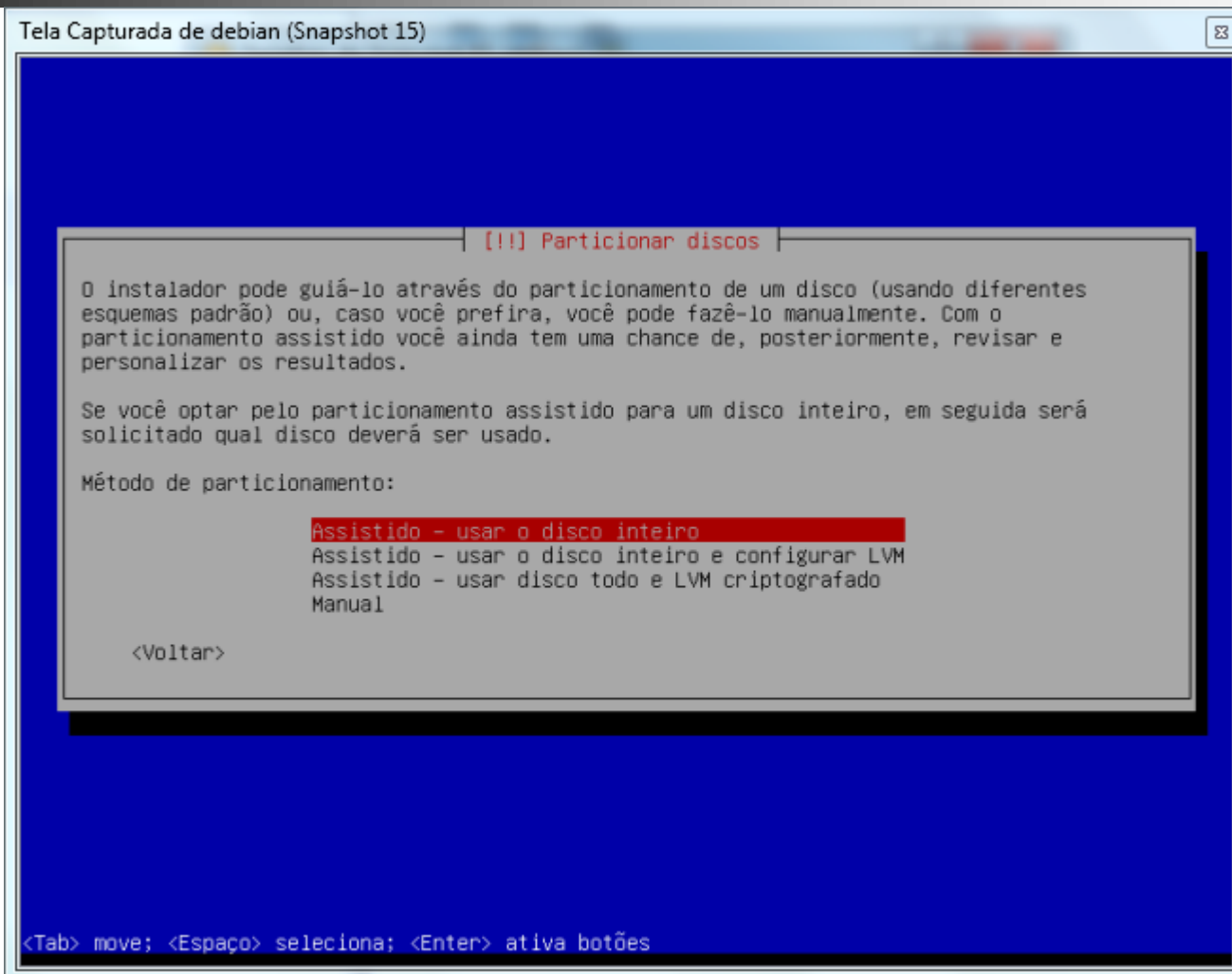


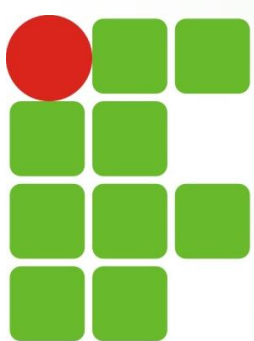
# Instalando o Debian



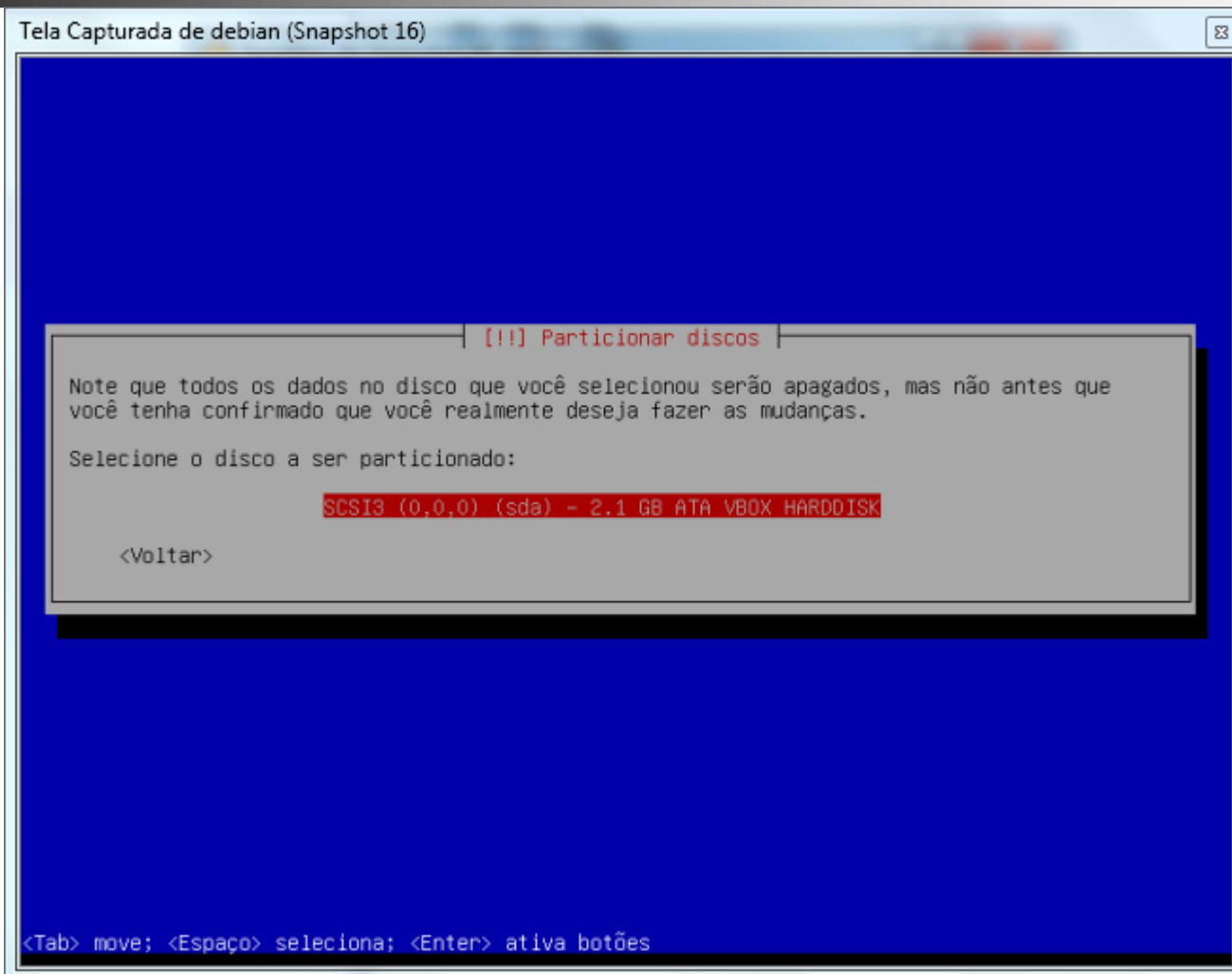


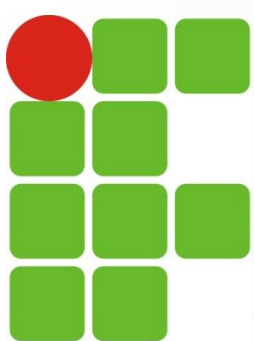
# Instalando o Debian





# Instalando o Debian





# Instalando o Debian

```
Tela Capturada de debian (Snapshot 17) [X]

[!] Particionar discos

Selecionado para particionamento:

SCSI3 (0,0,0) (sda) - ATA VBOX HARDDISK: 2.1 GB

O disco pode ser particionado usando um dentre diversos esquemas diferentes. Se você não
tiver certeza, escolha o primeiro esquema.

Esquema de particionamento:

  Todos os arquivos em uma partição (para iniciantes)
  Partição /home separada
  Partições /home, /usr, /var e /tmp separadas

<Voltar>

<Tab> move; <Espaço> seleciona; <Enter> ativa botões
```

# Instalando o Debian

Tela Capturada de debian (Snapshot 18)

## [!!] Particionar discos

Esta é uma visão geral de suas partições e pontos de montagem atualmente configurados. Seleccione uma partição para modificar suas configurações (sistema de arquivos, ponto de montagem, etc), um espaço livre onde criar partições ou um dispositivo no qual inicializar uma tabela de partições.

Particionamento assistido  
Configurar RAID via software  
Configurar o Gerenciador de Volumes Lógicos  
Configurar volumes criptografados

SCSI3 (0,0,0) (sda) - 2.1 GB ATA VBOX HARDDISK  
No. 1 primária 2.0 GB B F ext3 /  
No. 5 lógica 141.6 MB F swap swap

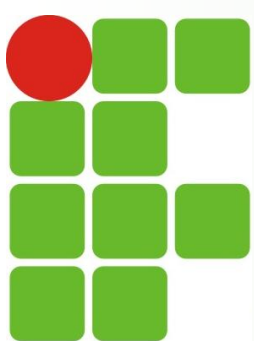
Desfazer as mudanças nas partições

**Finalizar o particionamento e escrever as mudanças no disco**

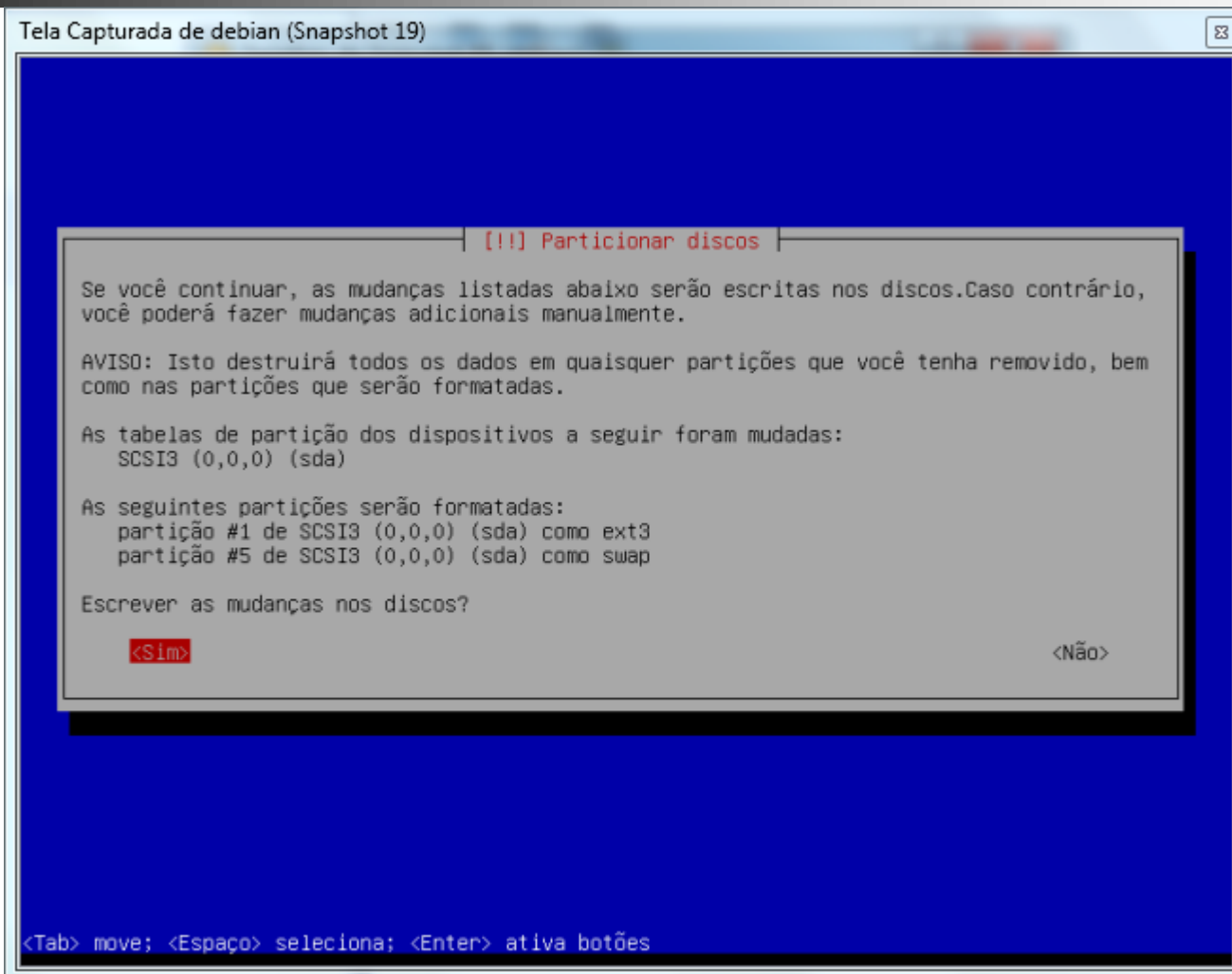
<Voltar>

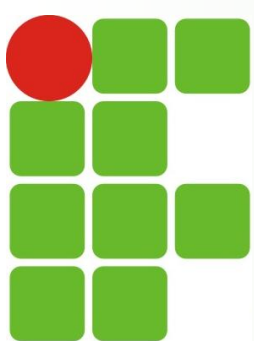
<F1> para ajuda; <Tab> move; <Espaço> seleciona; <Enter> ativa botões



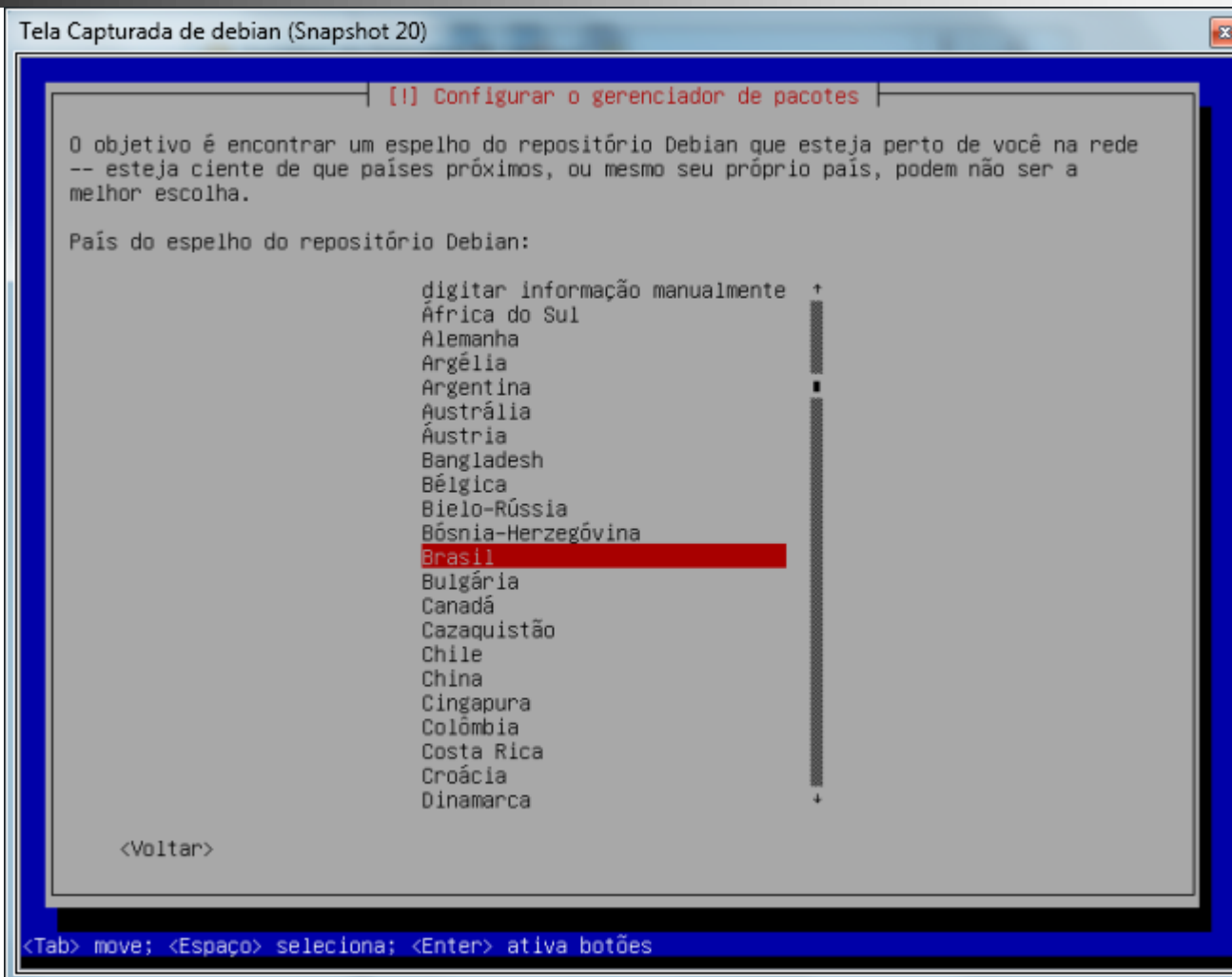


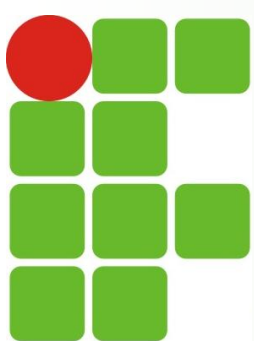
# Instalando o Debian



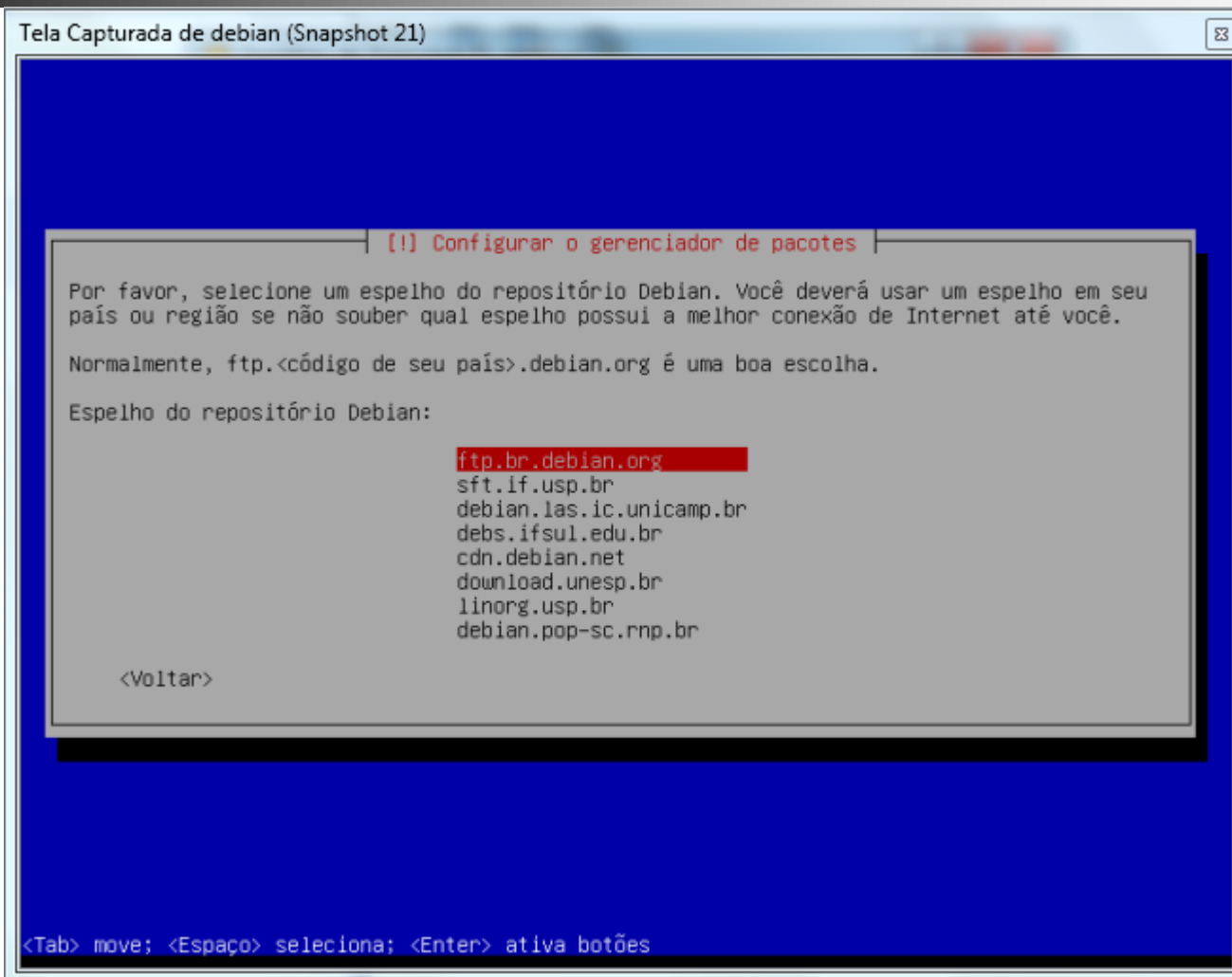


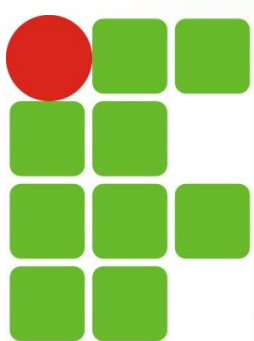
# Instalando o Debian



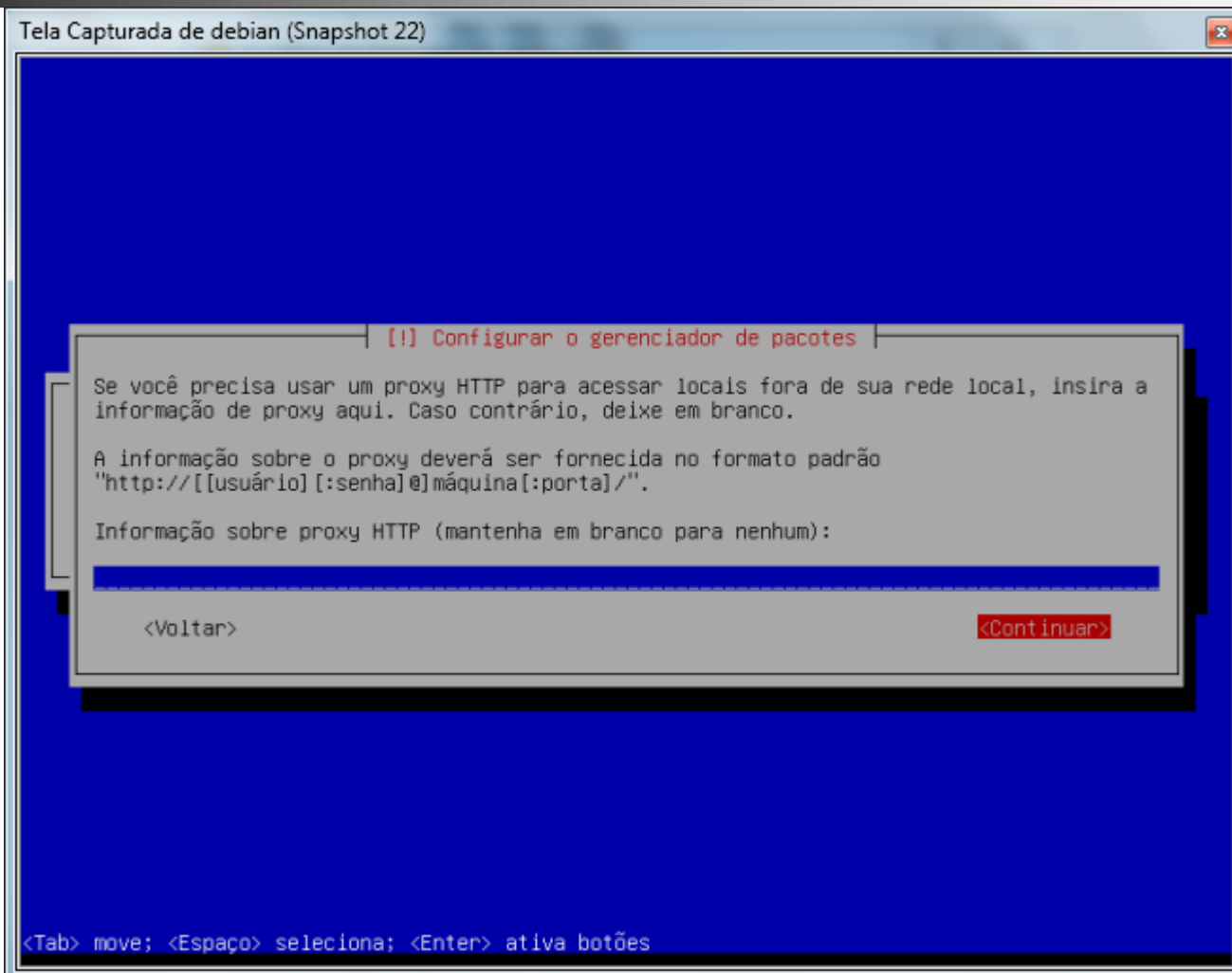


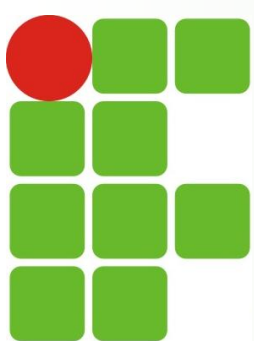
# Instalando o Debian



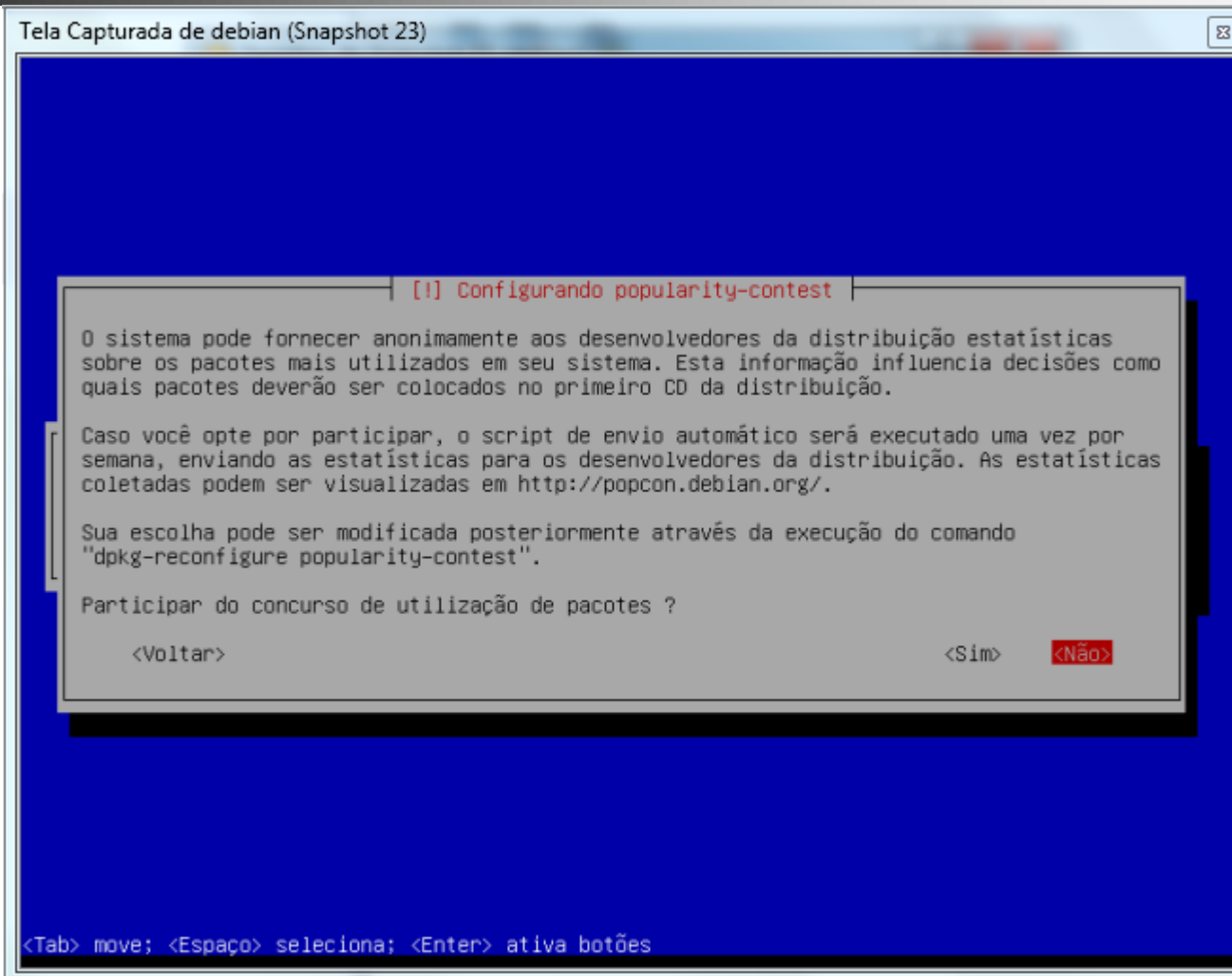


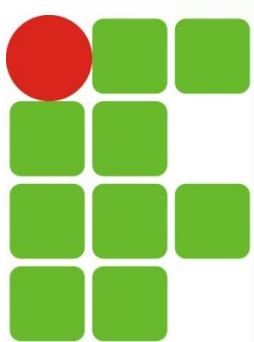
# Instalando o Debian



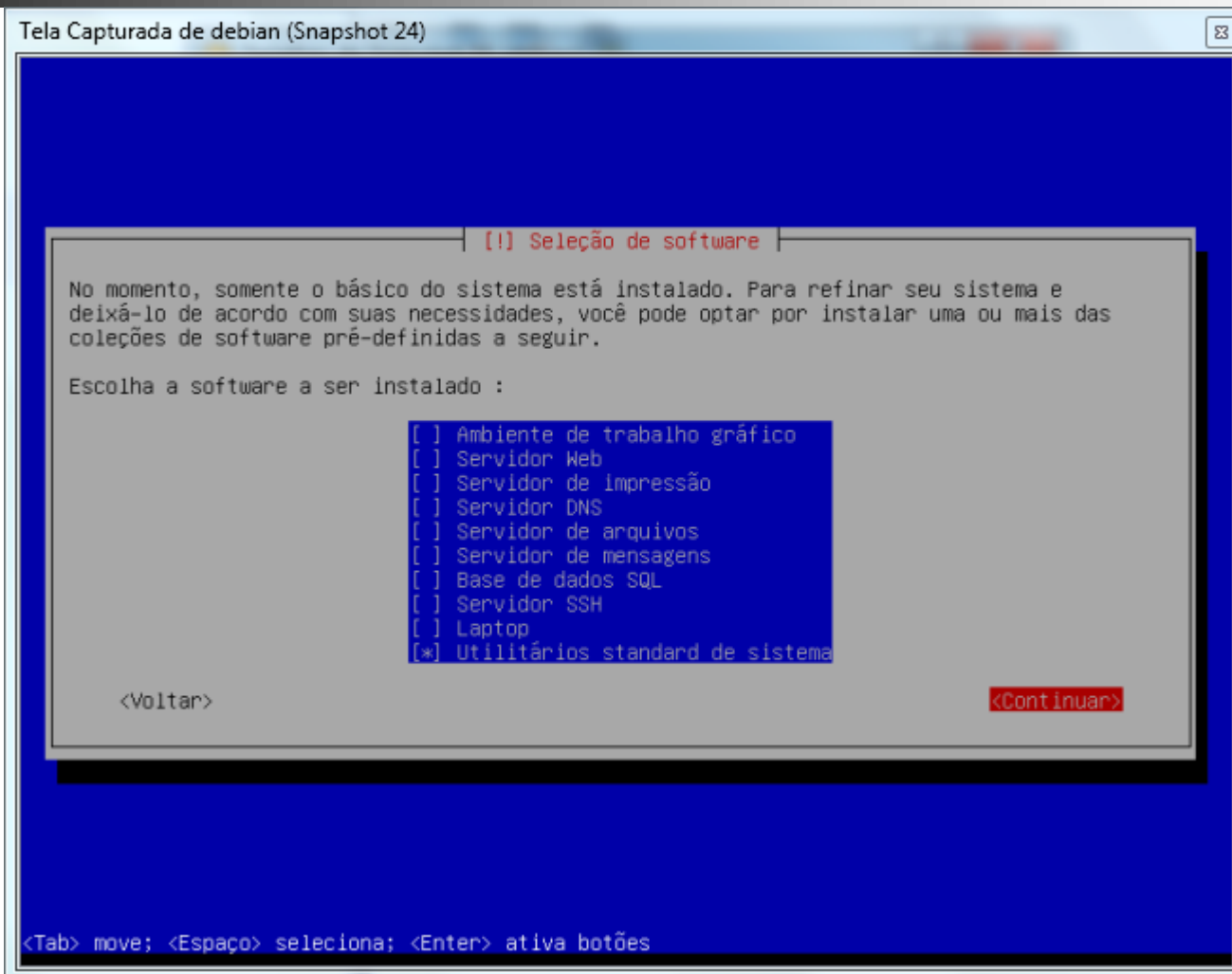


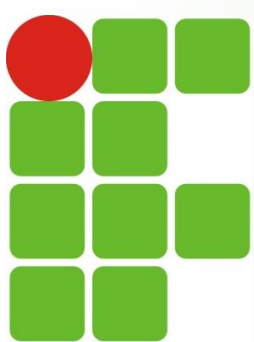
# Instalando o Debian



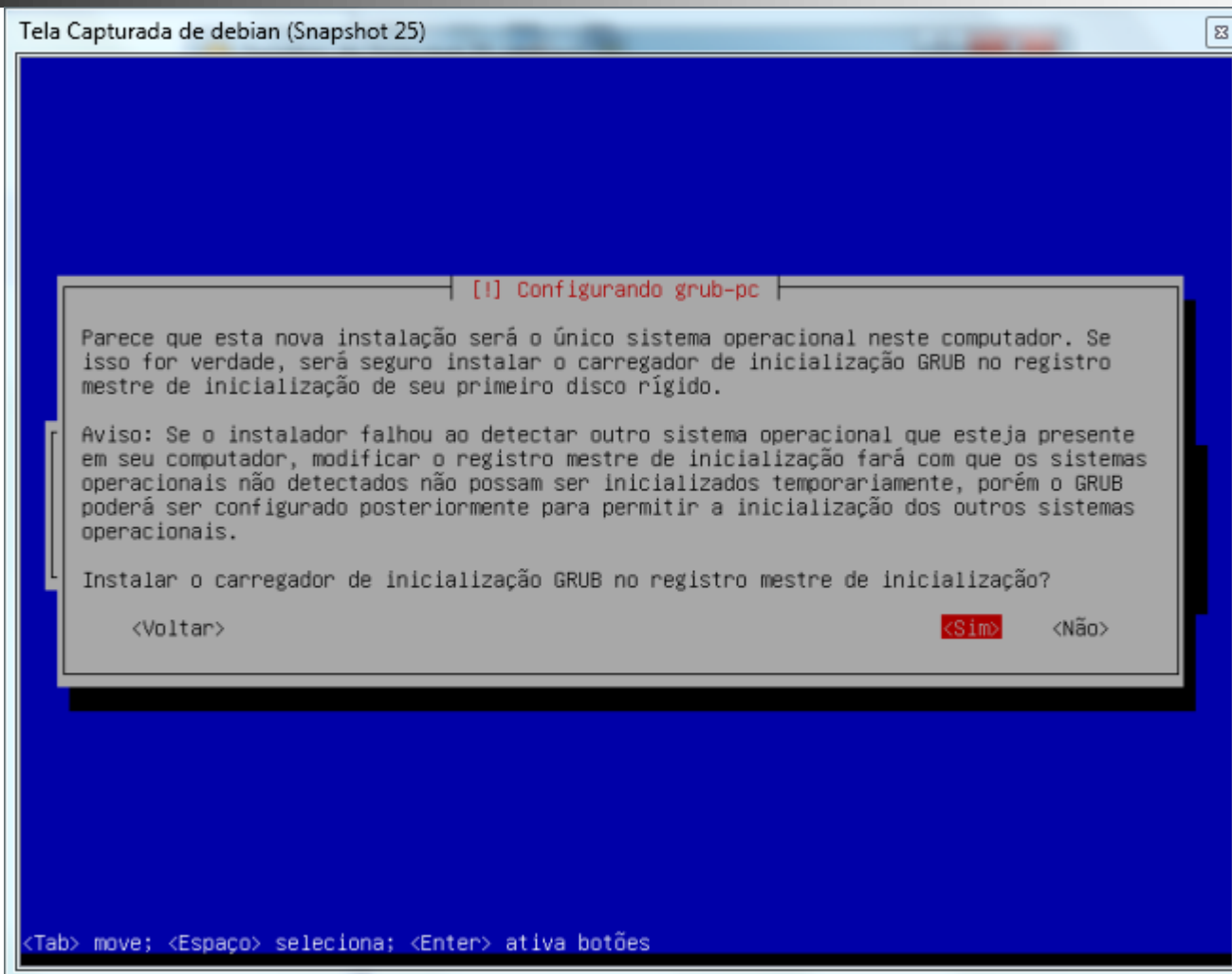


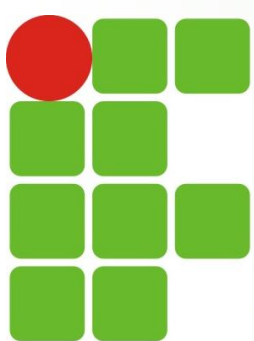
# Instalando o Debian



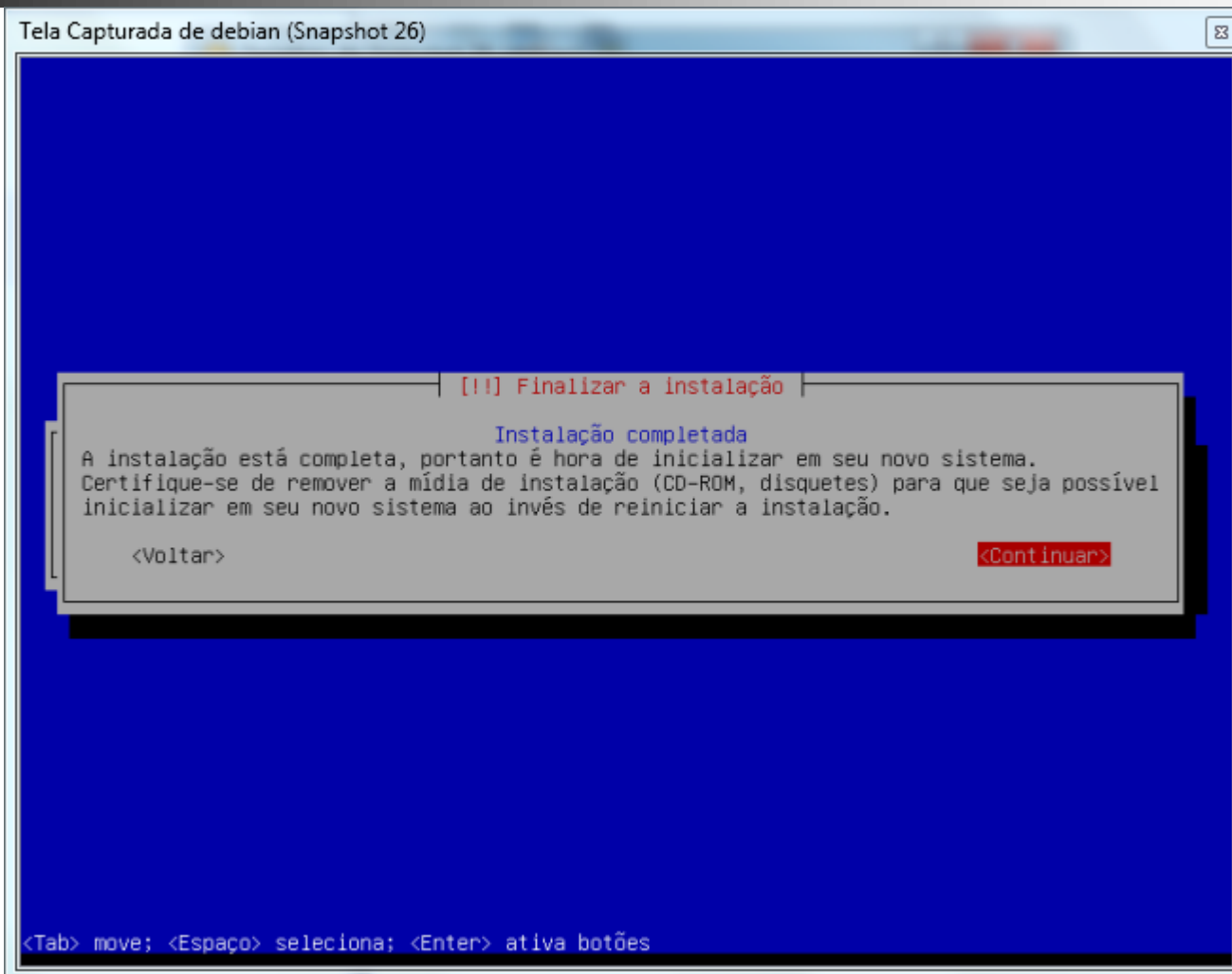


# Instalando o Debian

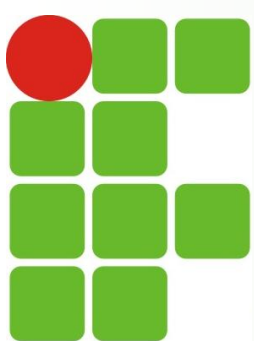




# Instalando o Debian







# GNU GRUB

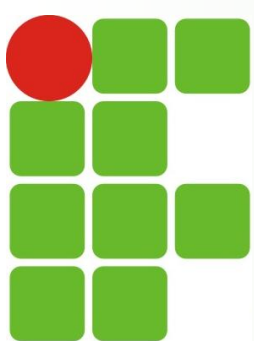
```
Tela Capturada de debian (Snapshot 27)

GNU GRUB version 1.98+20100804-14

Debian GNU/Linux, with Linux 2.6.32-5-686
Debian GNU/Linux, with Linux 2.6.32-5-686 (recovery mode)

Use the ↑ and ↓ keys to select which entry is highlighted.
Press enter to boot the selected OS, 'e' to edit the commands
before booting or 'c' for a command-line.

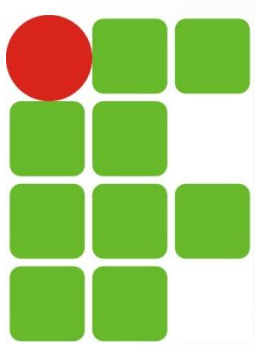
The highlighted entry will be executed automatically in 3s.
```



# Iniciando o Debian

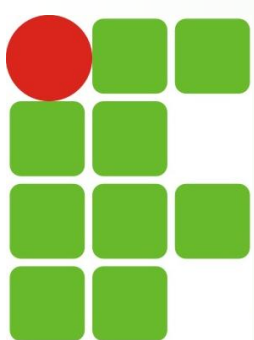
```
Tela Capturada de debian (Snapshot 28)
Cleaning up temporary files...
Setting kernel variables ...done.
Configuring network interfaces...done.
Starting portmap daemon....
Starting NFS common utilities: statd.
Cleaning up temporary files....
Setting console screen modes.
Skipping font and keymap setup (handled by console-setup).
Setting up console font and keymap...done.
INIT: Entering runlevel: 2
Using makefile-style concurrent boot in runlevel 2.
Starting NFS common utilities: statd.
Starting portmap daemon...Already running..
Starting enhanced syslogd: rsyslogd.
Starting VirtualBox AdditionsVBoxService: 3.2.10_OSE r66523 started. Verbose level = 0
.
Starting ACPI services....
Starting deferred execution scheduler: atd.
Starting periodic command scheduler: cron.
Starting MTA: exim4.

Debian GNU/Linux 6.0 debian tty1
debian login: _
```



# Considerações Finais

- Importante conhecer os sistemas linux para poder fazer sua escolha quanto ao SOR que deseja utilizar;



# Sistemas Operacionais de Redes

## ■ Bibliografia

- MORIMOTO, Carlos E.. Linux, Entendendo o Sistema – Guia Prático. Sul Editores, 2006.
- MORIMOTO, Carlos E.. Linux, Redes e Servidores – Guia Prático. Sul Editores, 2006.
- BATTISTI, Júlio. Windows Server 2003 Curso Completo. Axcel, 2003.
- THOMPSON, Marco Aurélio. Windows Server 2003 - administração de redes. Érica, 2003.