Introdução ao Linux:

Aula 0: Criação e Adição de uma Máquina Virtual e Instalação do Debian GNU/Linux

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23 de julho de 2018



Criação de uma Máquina Virtual do Debian GNU/Linux

O presente passo-a-passo tem o objetivo de utilizar o programa Oracle VirtualBox (https://www.virtualbox.org) para a criação e adição de um Disco Virtual, parte A, e a instalação do Sistema Operacional Debian GNU/Linux 32 bits a partir de um arquivo de imagem de disco ISO (https://www.debian.org/CD/http-ftp/), parte B, e a configuração do Debian para funcionar em modo de Tela Cheia, parte C. Também pretende-se mostrar o passo-a-passo, por fim, da configuração de uma Máquina Virtual a partir de um Disco Virtual pré-existente, parte D.

Aula 0, parte A Criação e Adição de um Disco Virtual

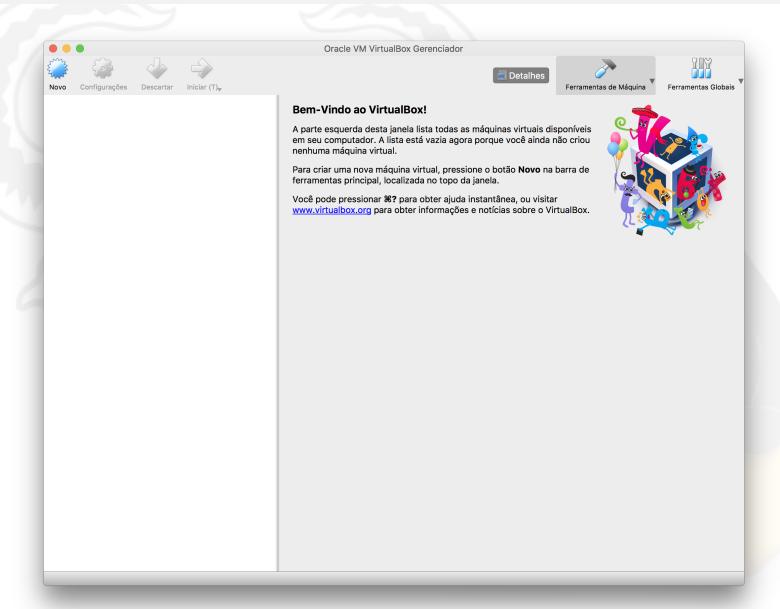


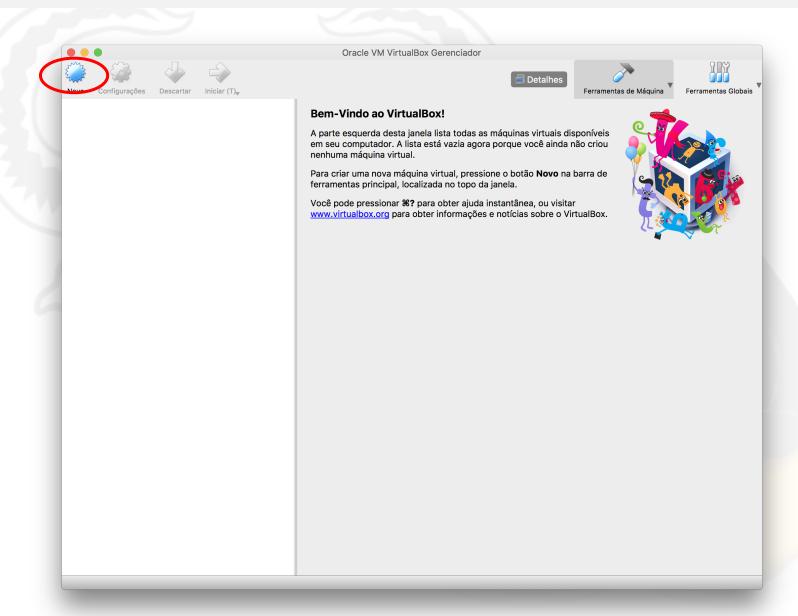
Para a criação de uma Máquina Virtual, é necessário possuir o arquivo ISO do Sistema Operacional, disponibilizado pela equipe que faz o sistema.

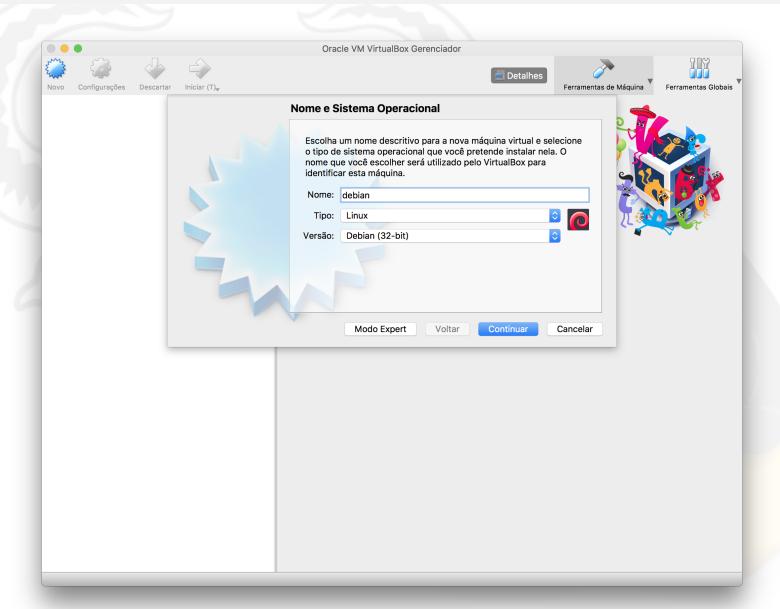
O presente tutorial segue o passo-à-passo de como criar o Disco Virtual (arquivo VDI) para o sistema Debian GNU/Linux de 32 bits utilizando o GNOME como ambiente de Área de Trabalho.

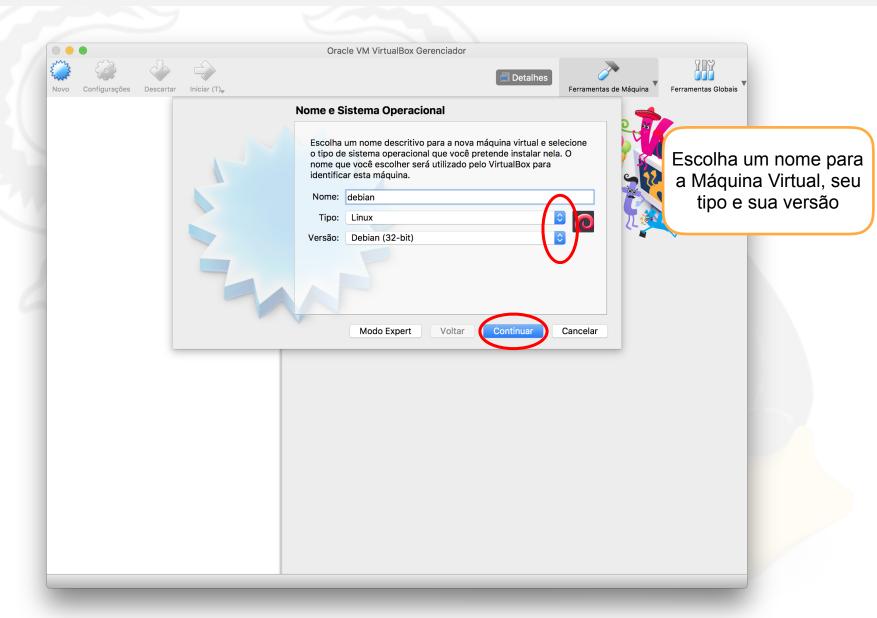
A descrição detalhada de cada processo, desde a criação até a instalação do sistema operacional, podem ser lidos em:

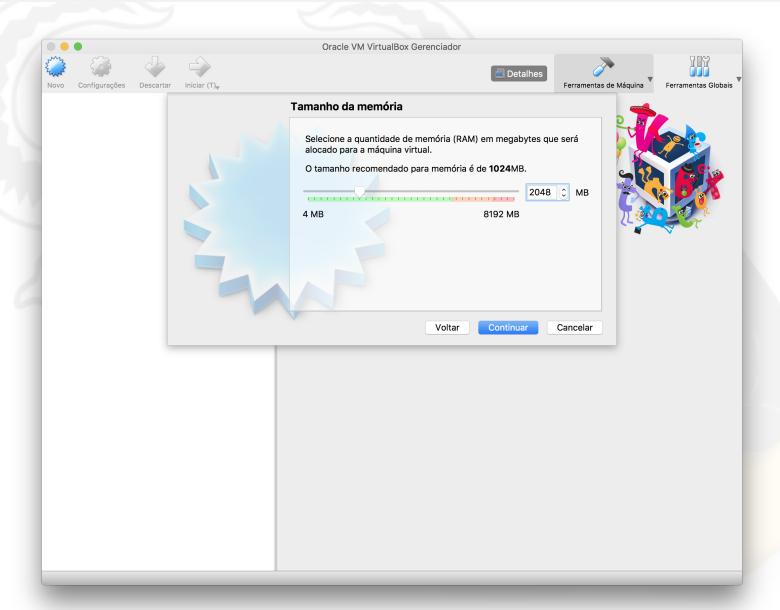
https://debian-handbook.info/browse/stable/

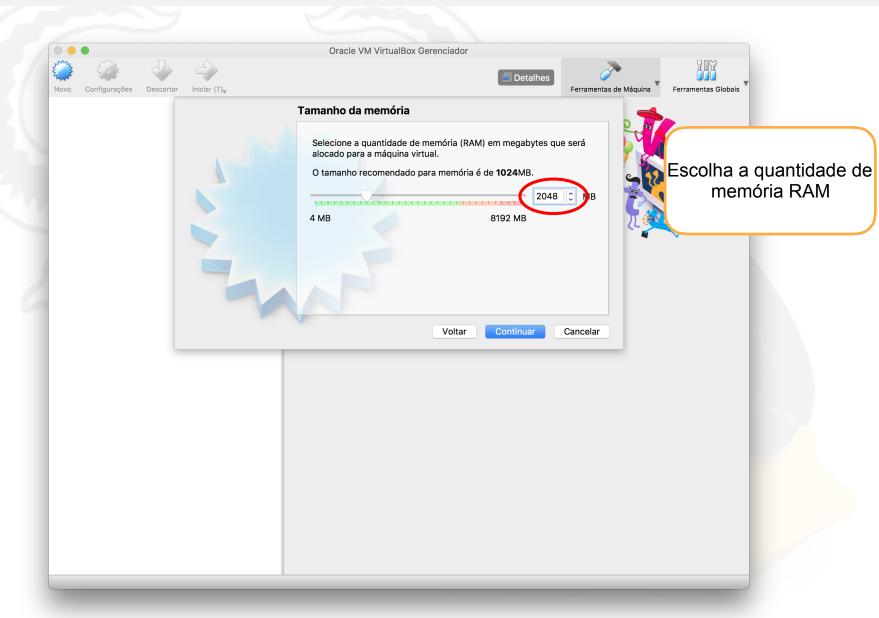


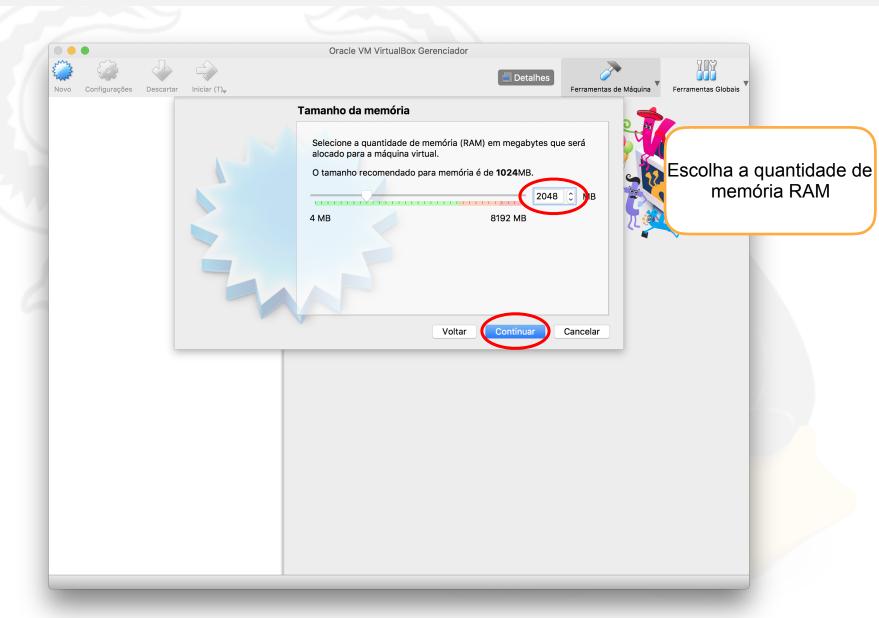


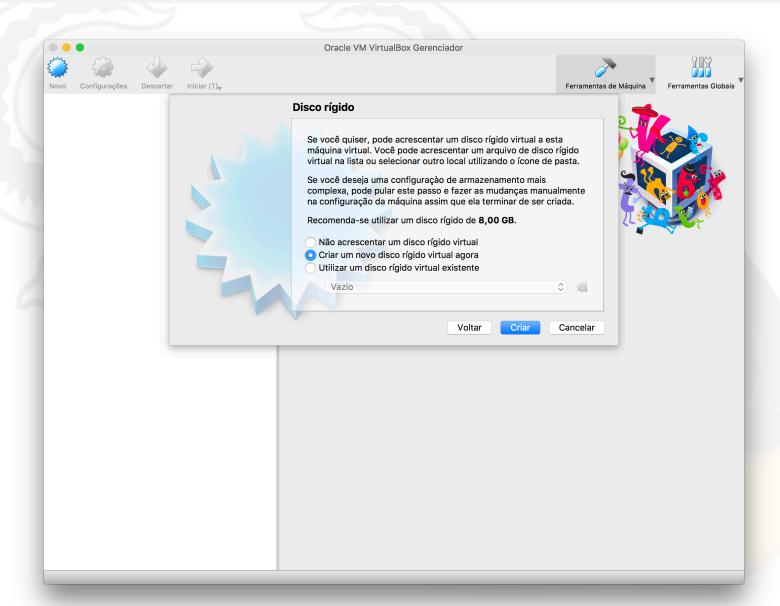


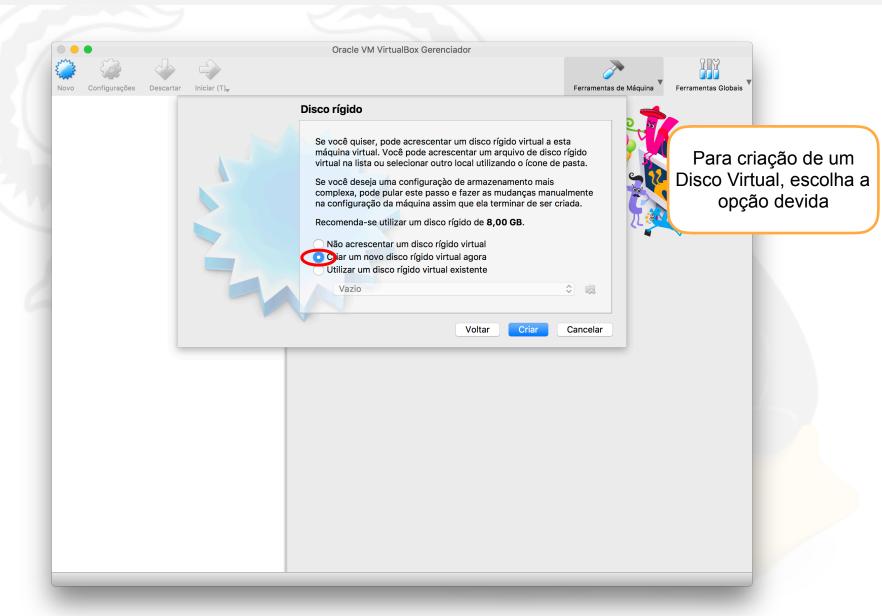


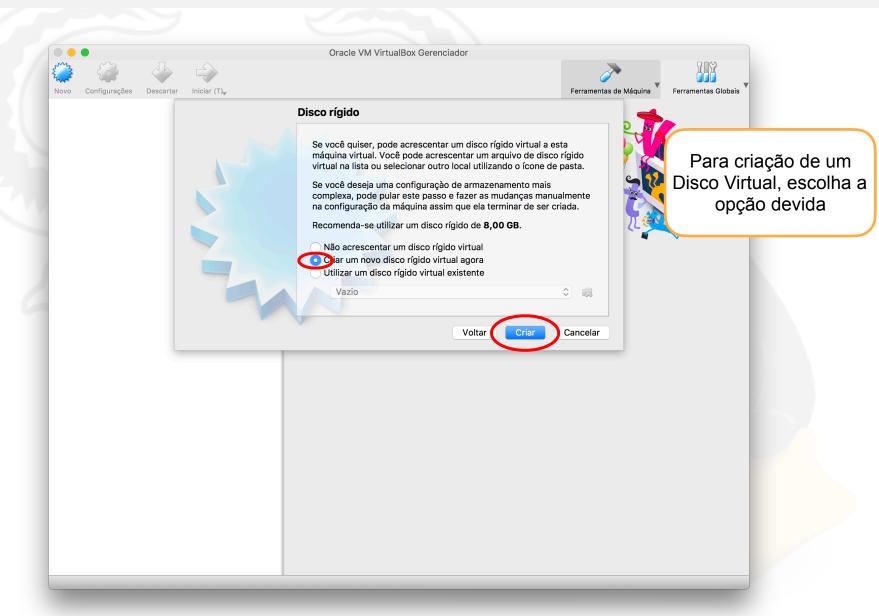


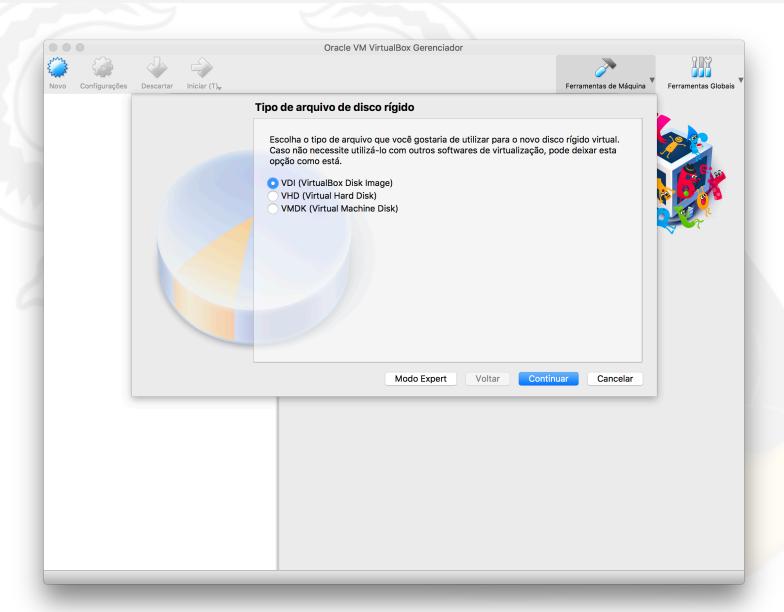




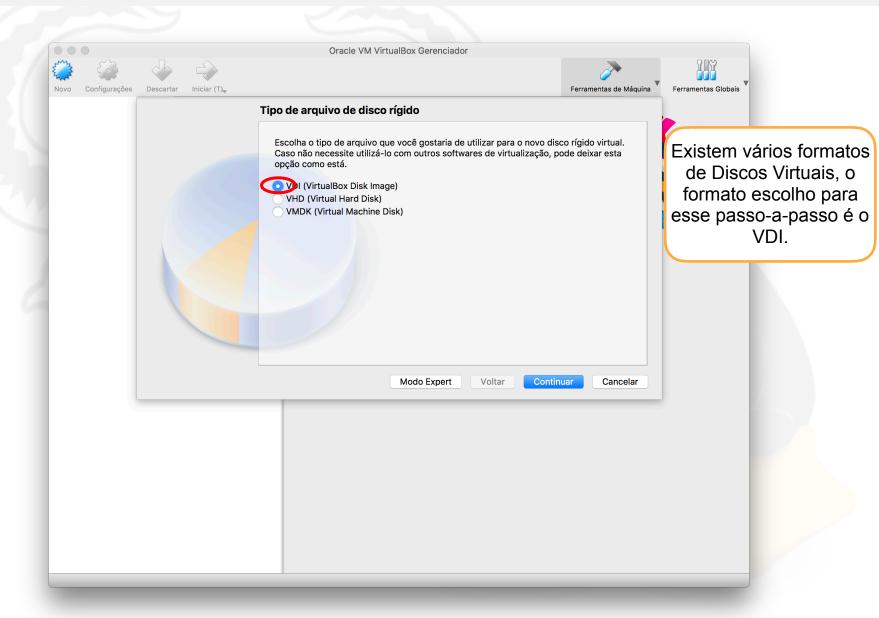


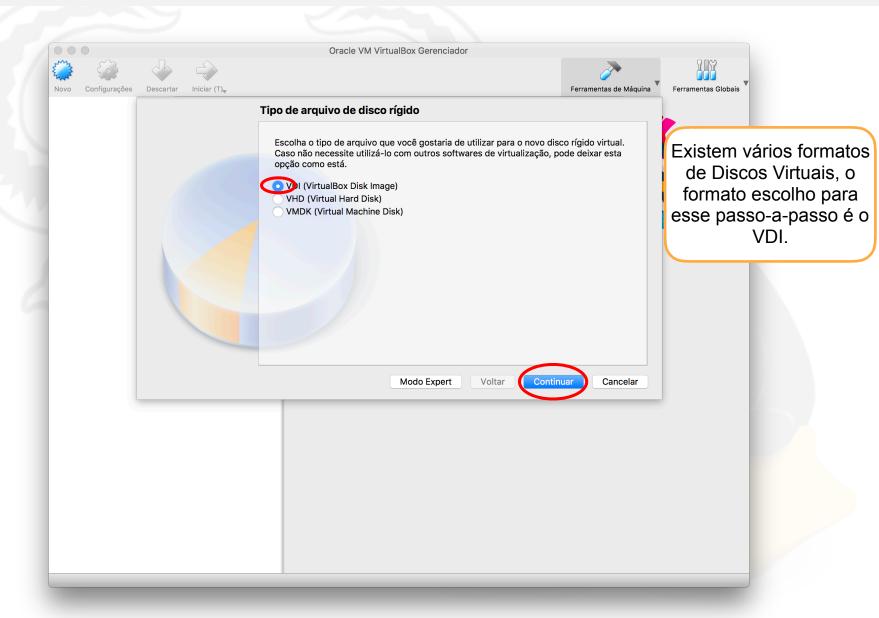






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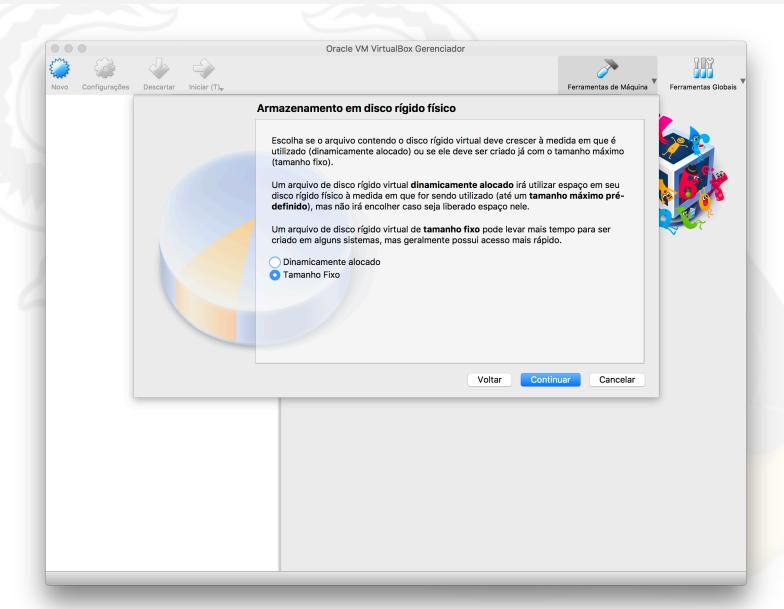




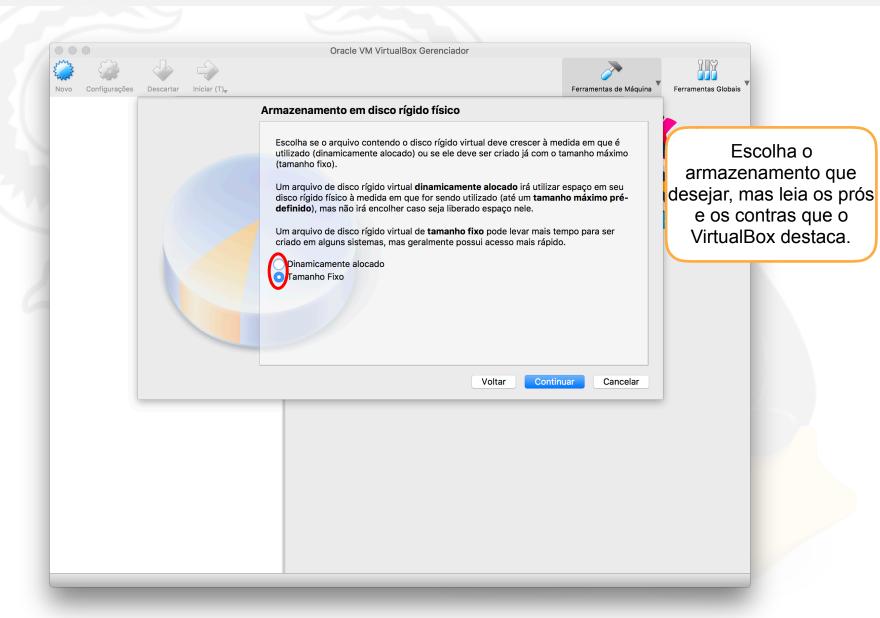
Existem duas formas de guardar uma máquina virtual na memória do computador (HD):

- Dinamicamente alocada, onde a Máquina Virtual começa com um tamanho inicial mínimo e vai aumentando até um tamanho máximo
- Tamanho fixo, onde a Máquina Virtual tem um tamanho fixo e não pode exceder esse tamanho

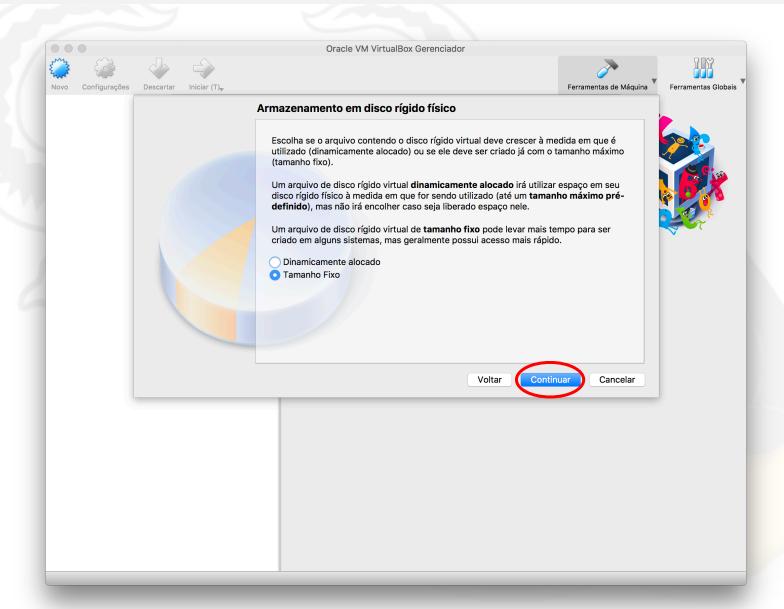
Para ambas as formas é necessário definir o tamanho (máximo, quando dinamicamente alocado) do Disco Virtual. Note que o VirtualBox explica a diferença entre os dois durante o processo.

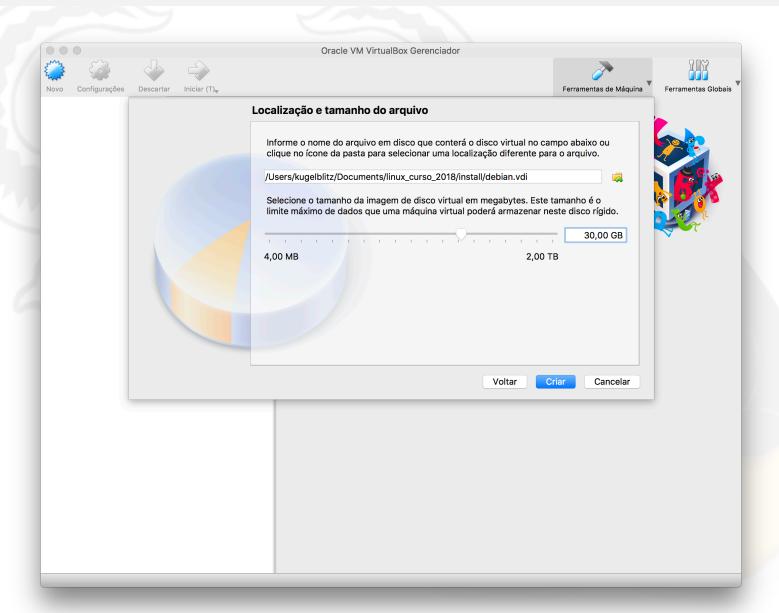


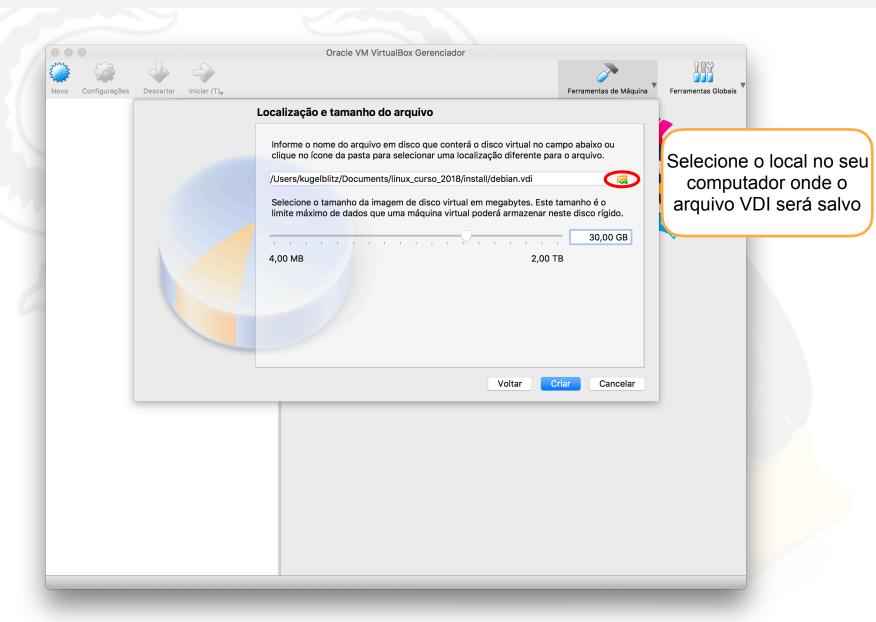
23 de julho de 2018

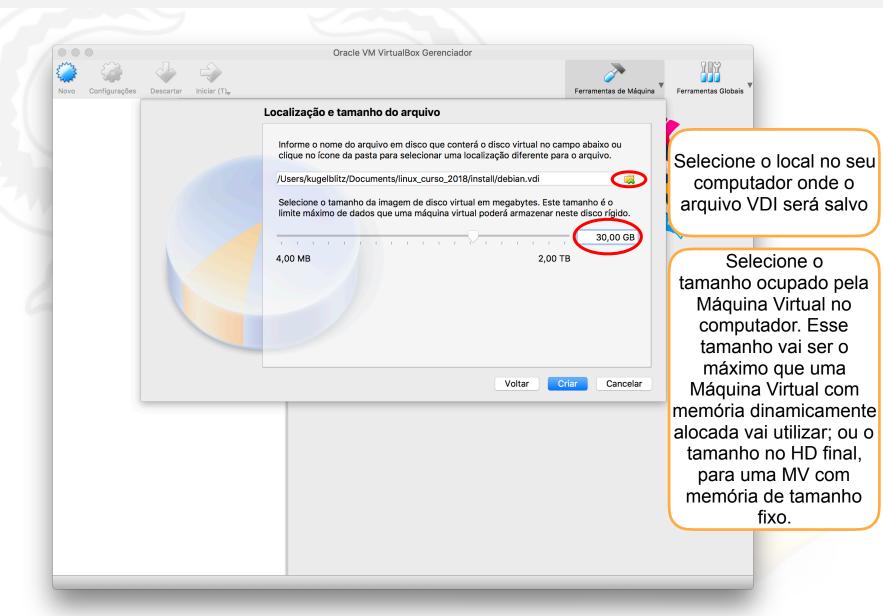


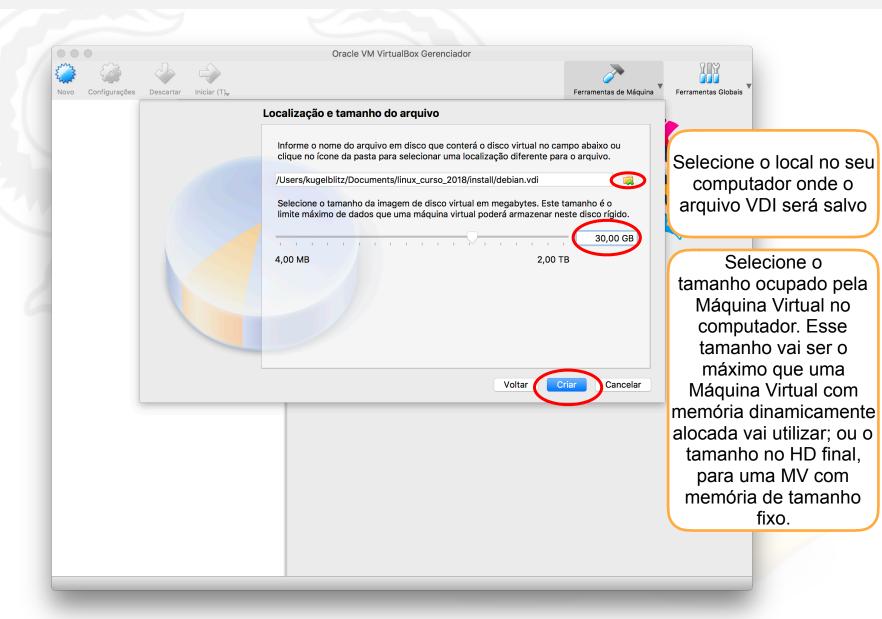
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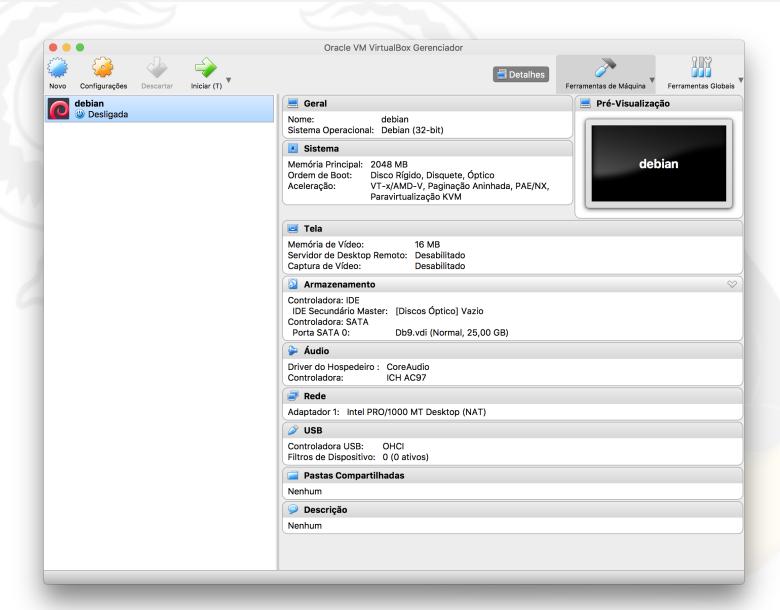


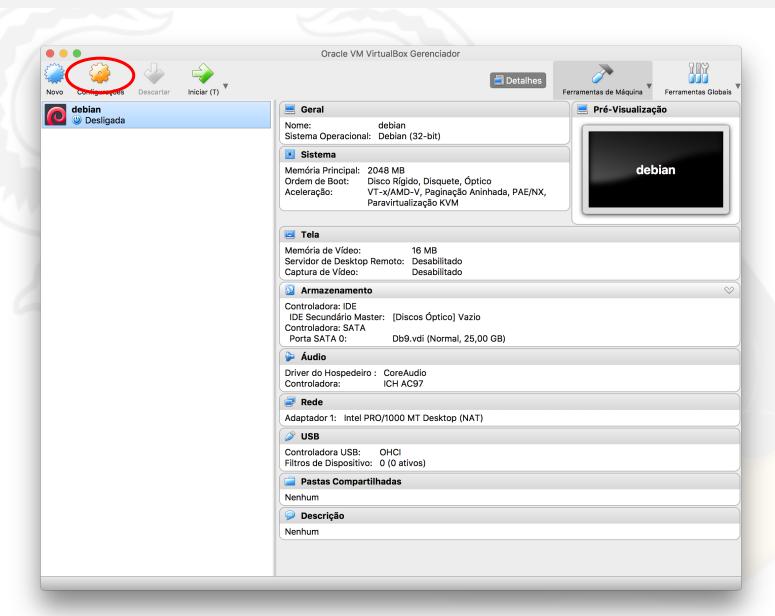


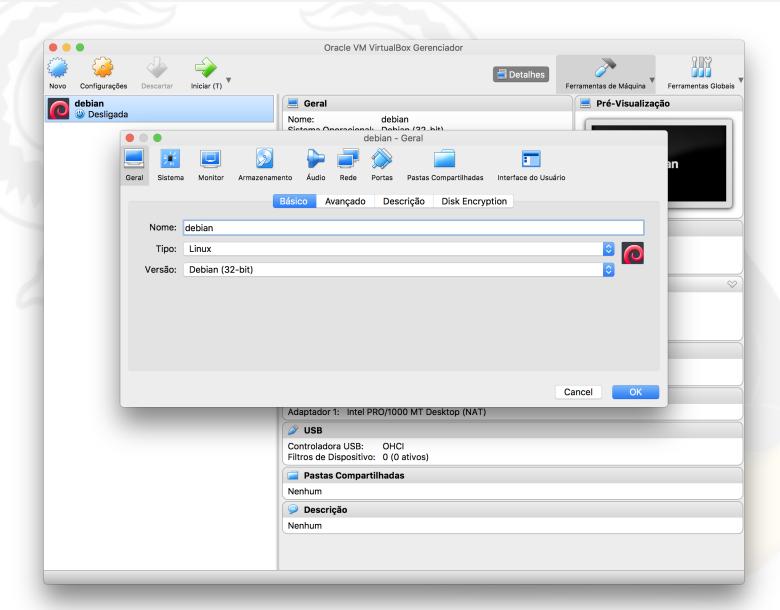


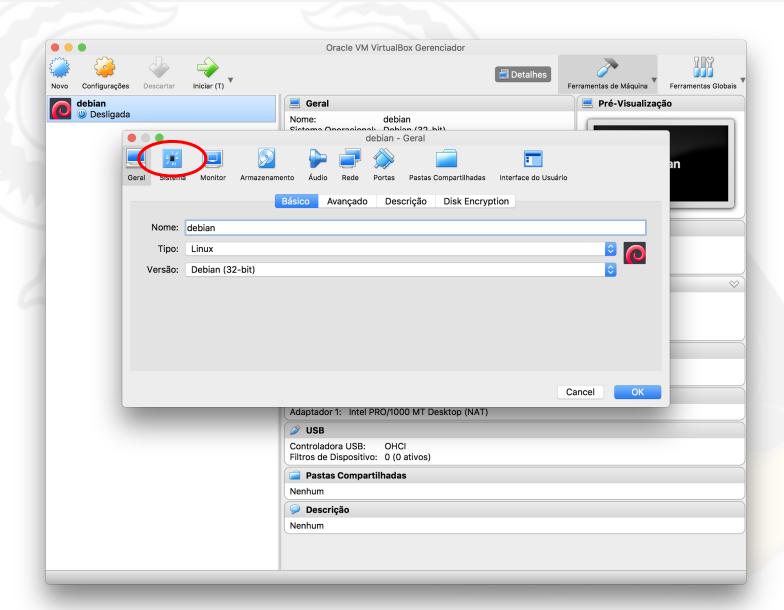


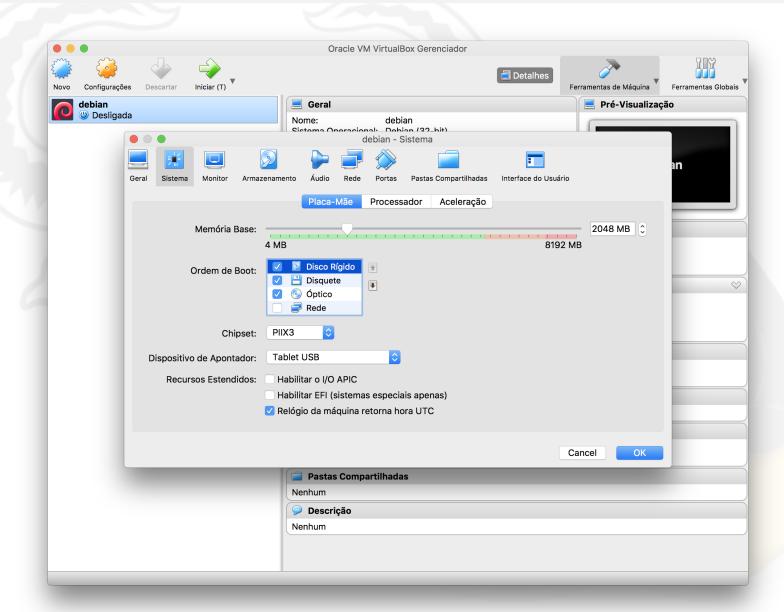


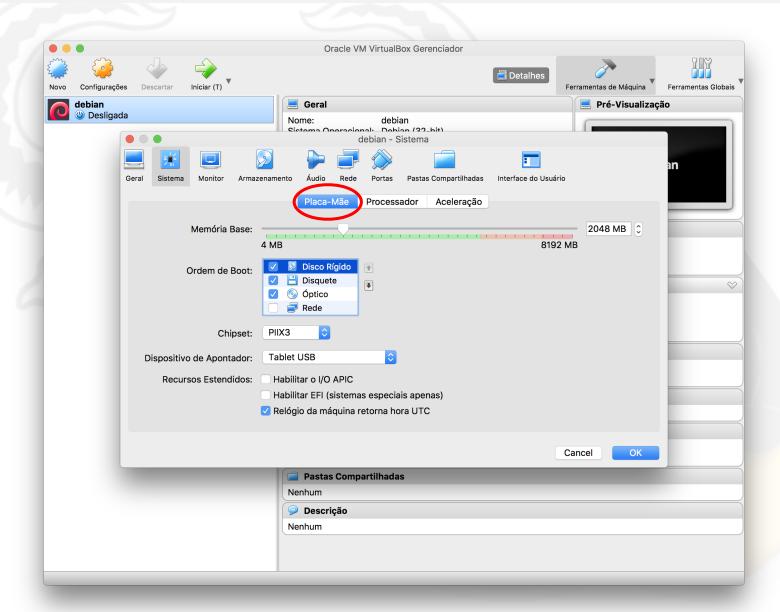


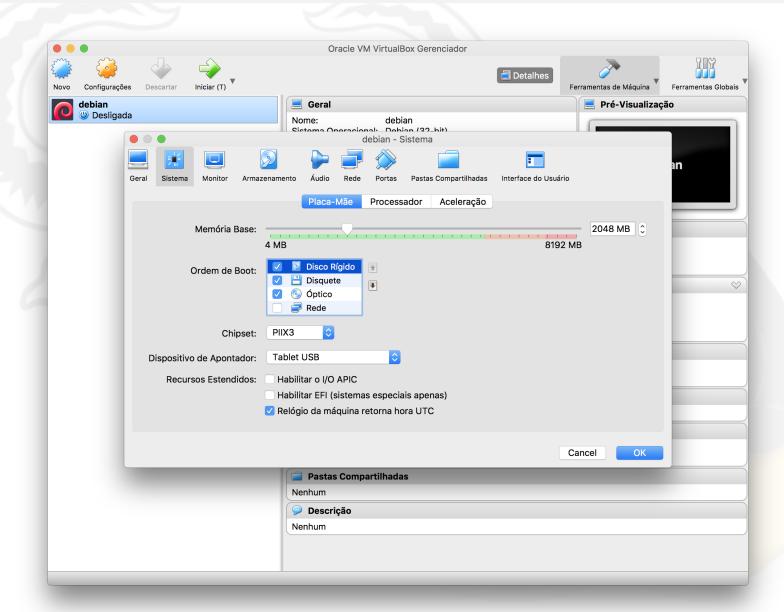


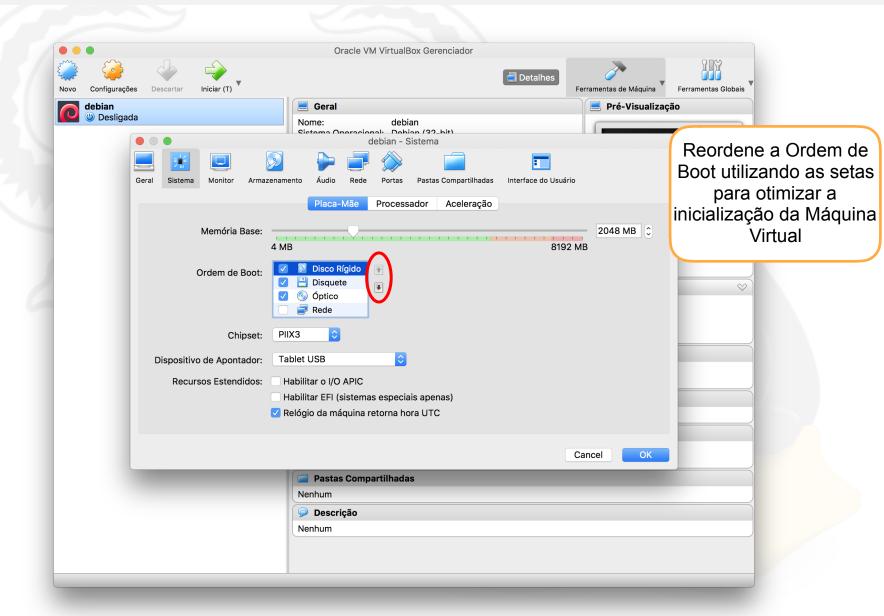


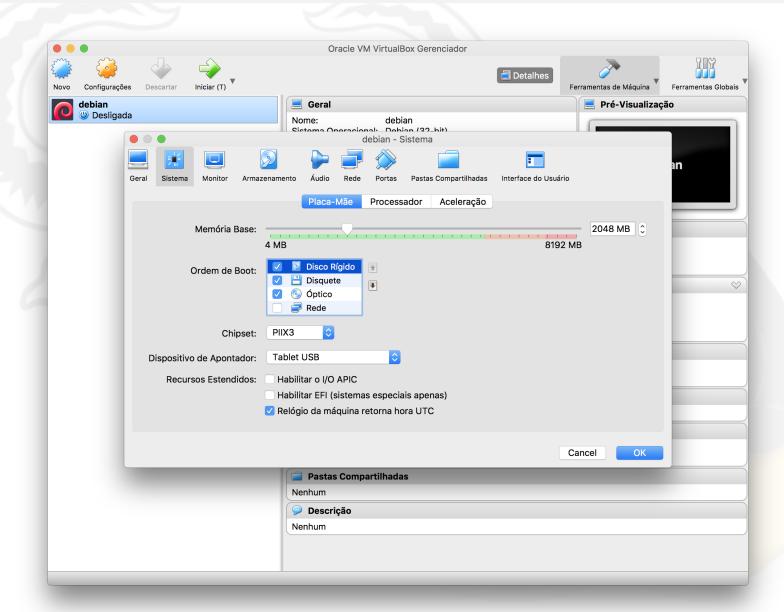


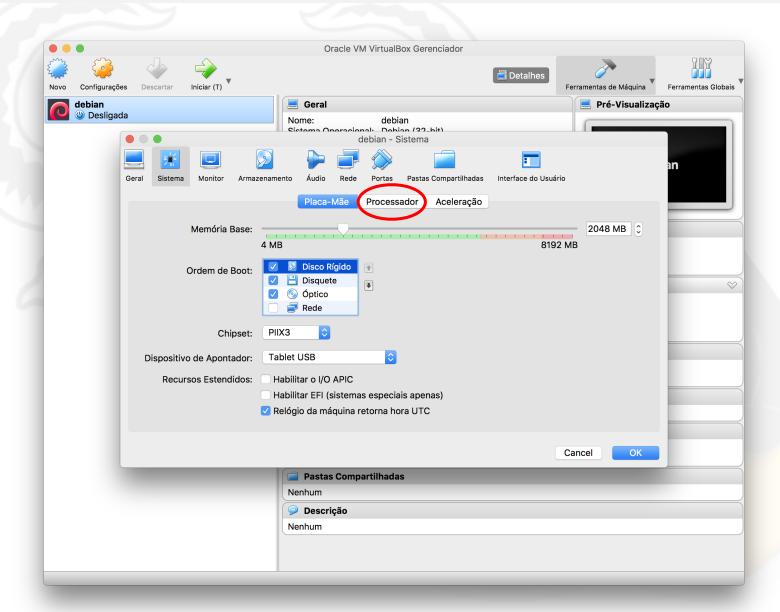


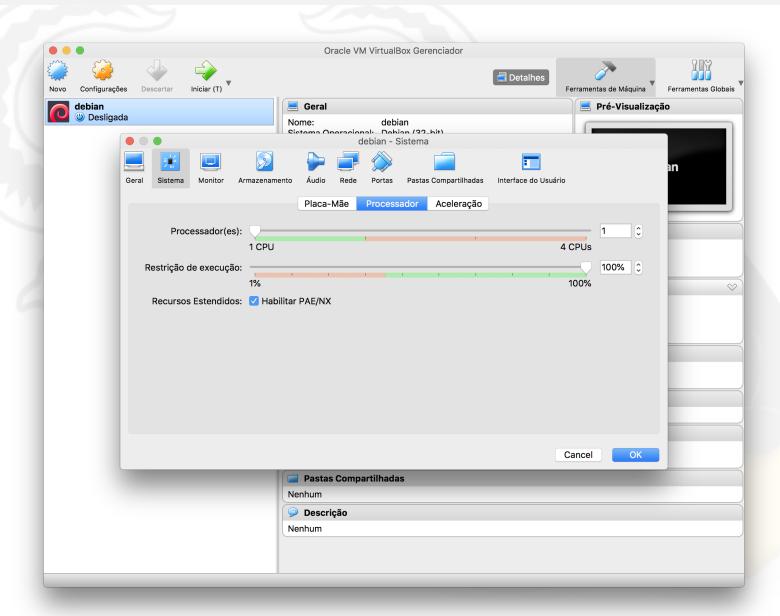


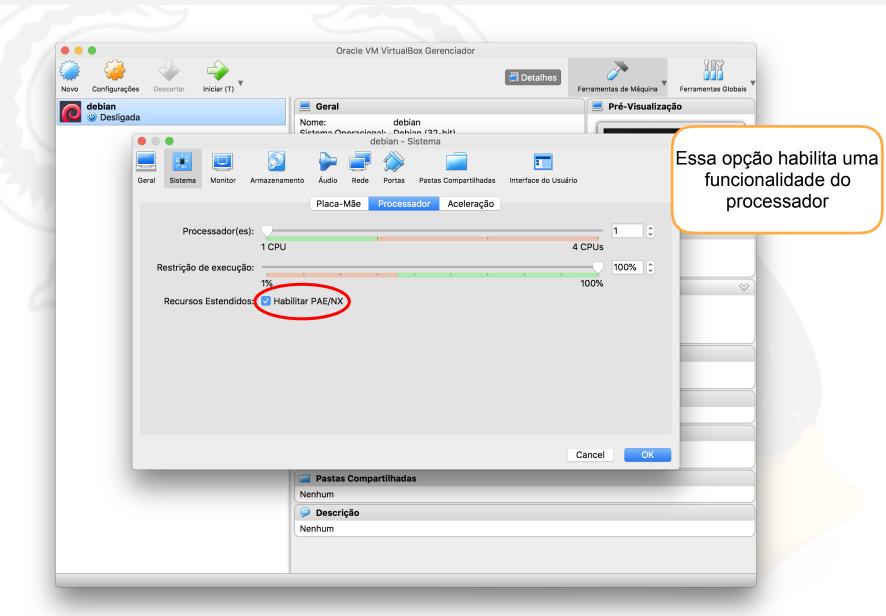


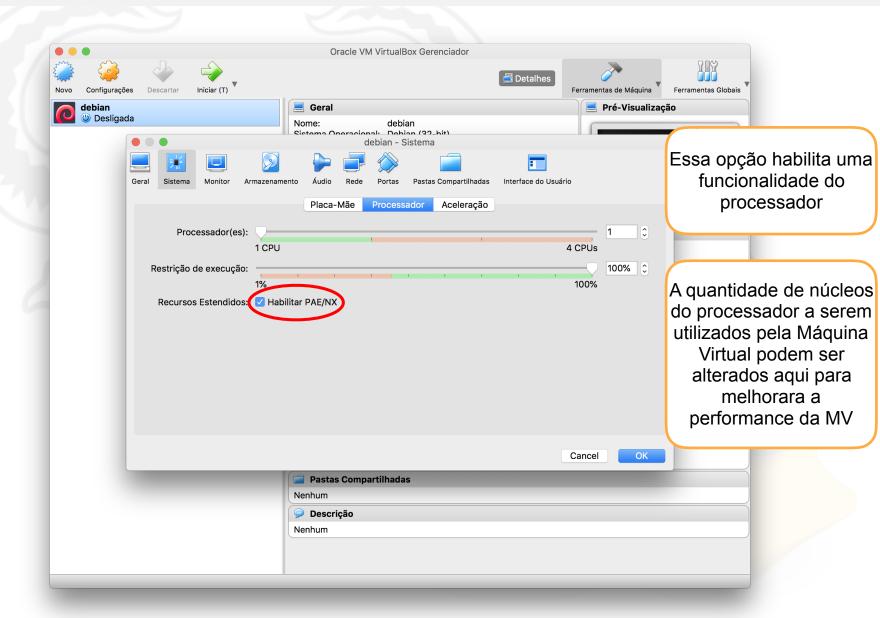


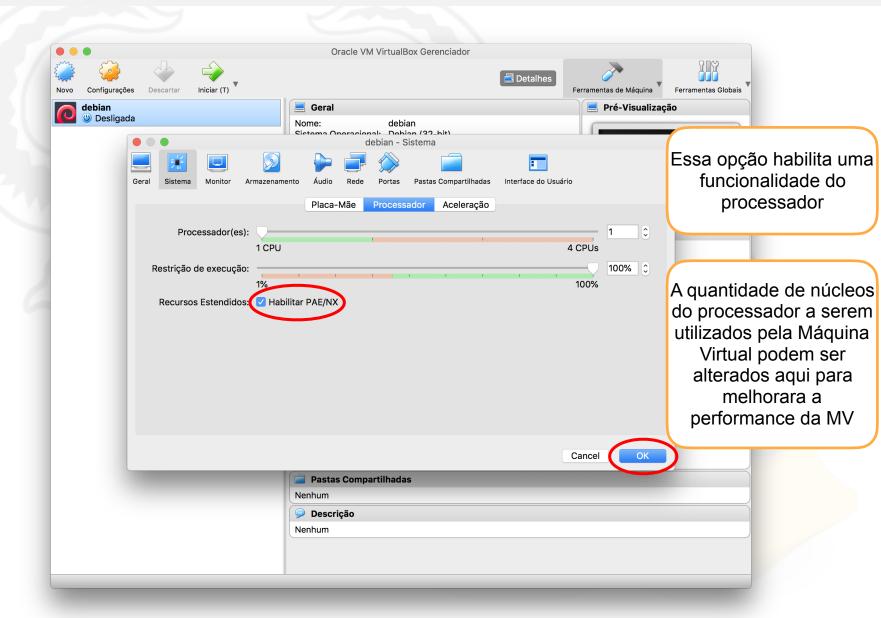






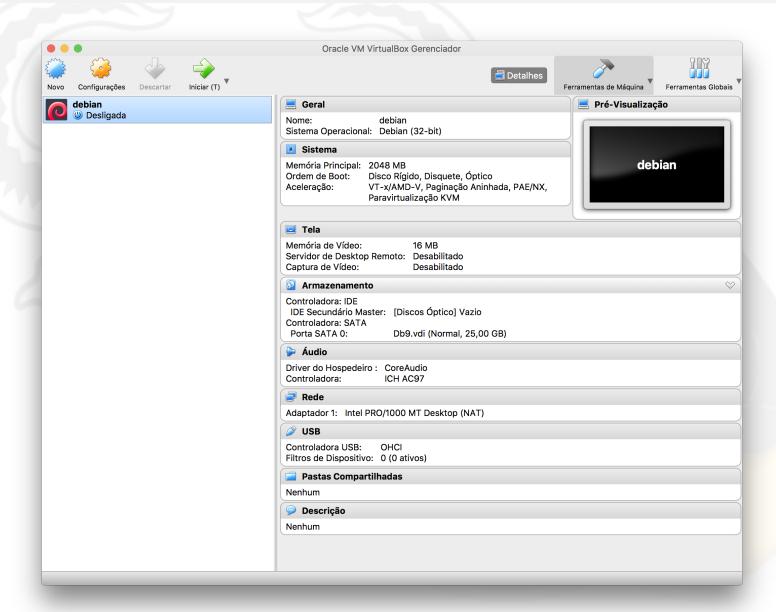


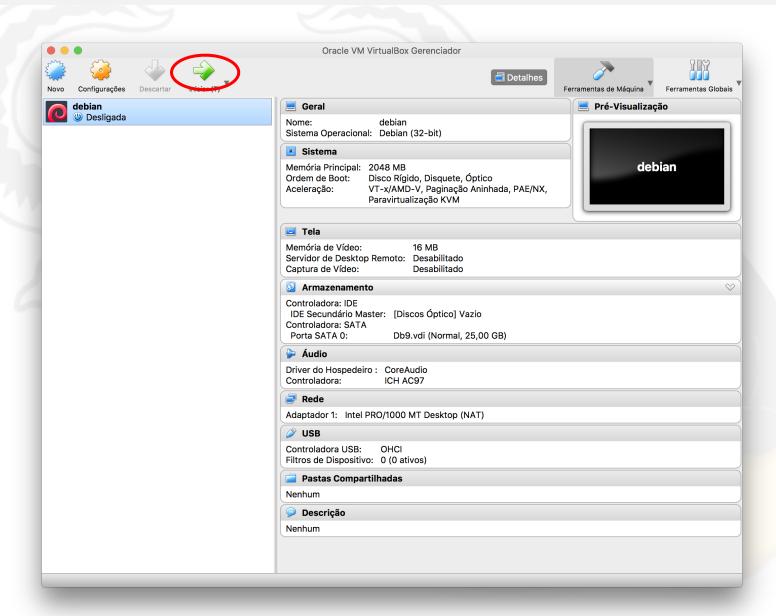


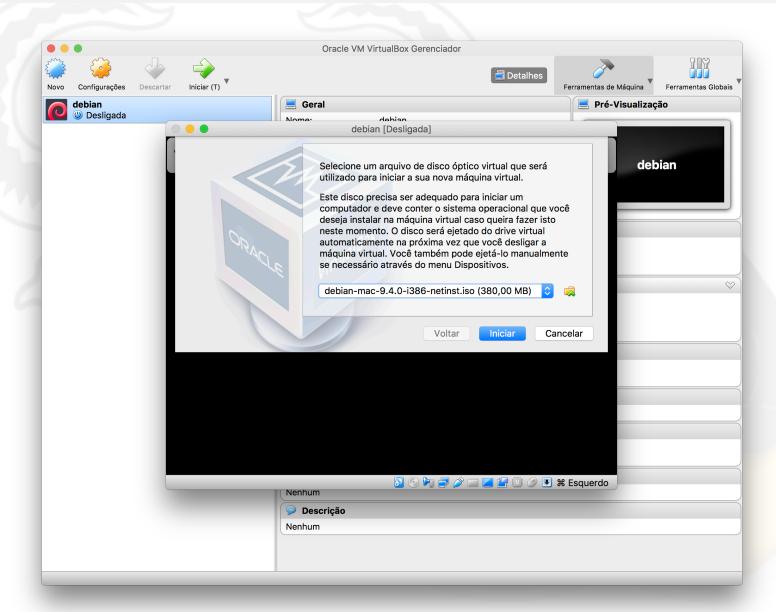


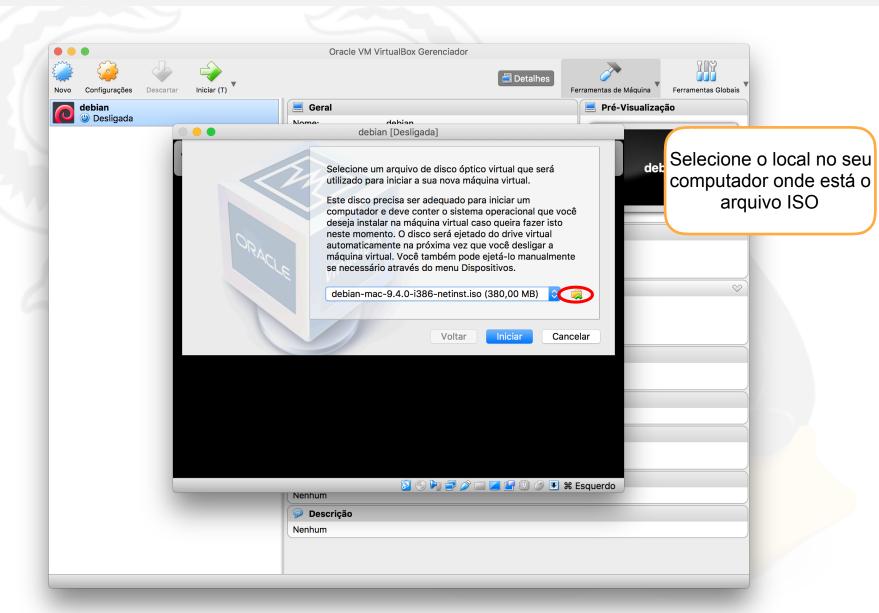
Aula 0, parte B Instalação do Sistema Operacional

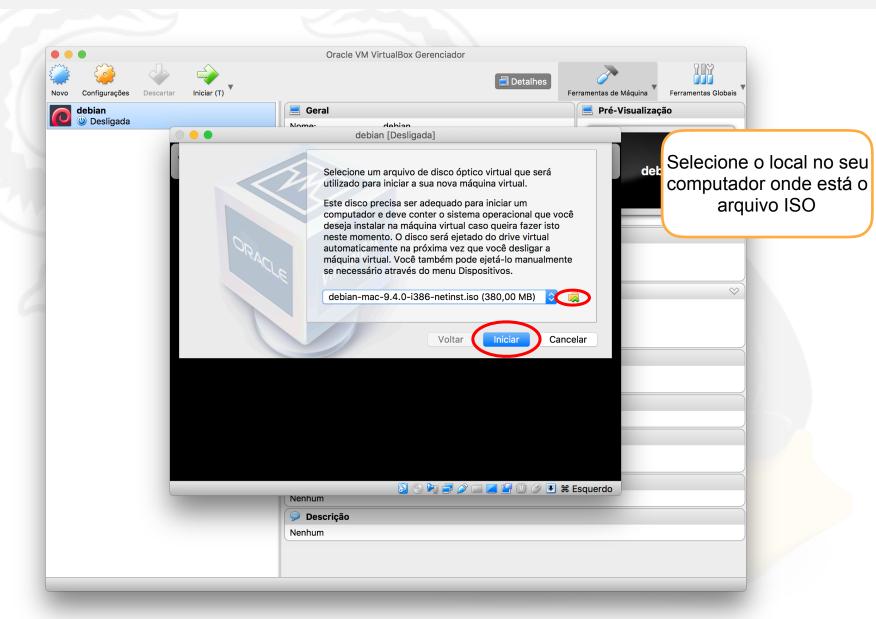
Para esse passo-a-passo, foi utilizada o arquivo ISO do Sistema Operacional Debian GNU/Linux **debian-mac-9.4.0-i386-netinst.iso** (análogo ao **debian-9.4.0-i386-netinst.iso**), cujo *download* foi feito diretamente do site https://cdimage.debian.org/debian-cd/current/i386/iso-cd/, que é a imagem de CD disponível

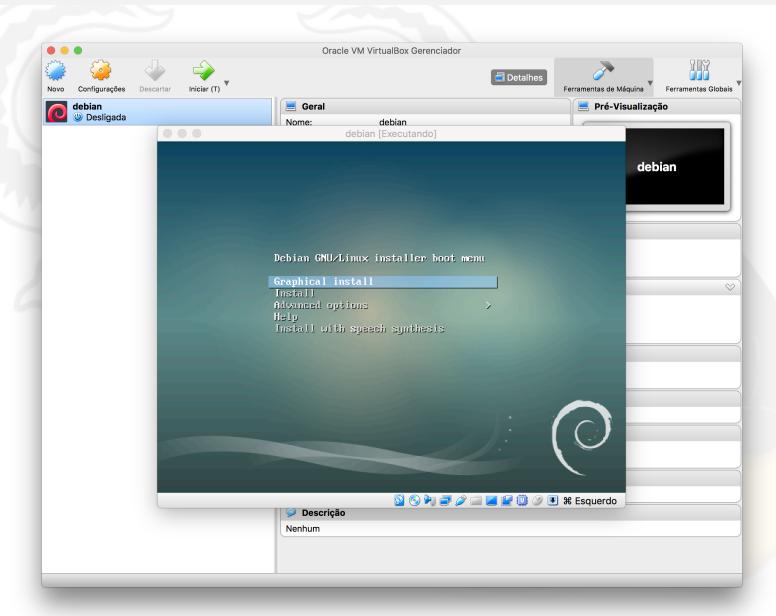


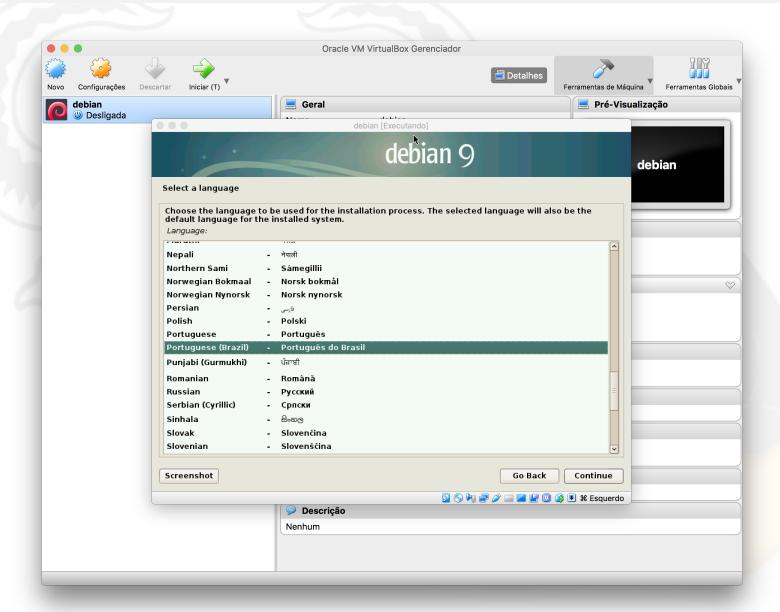


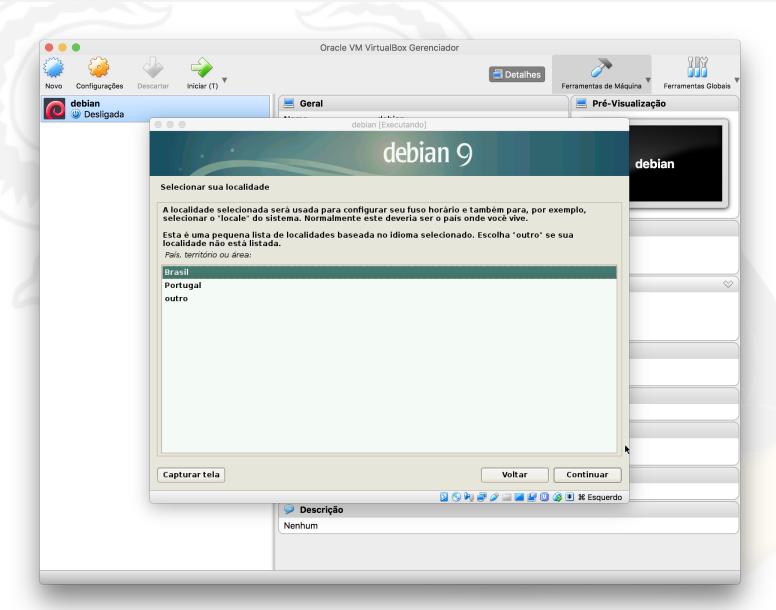


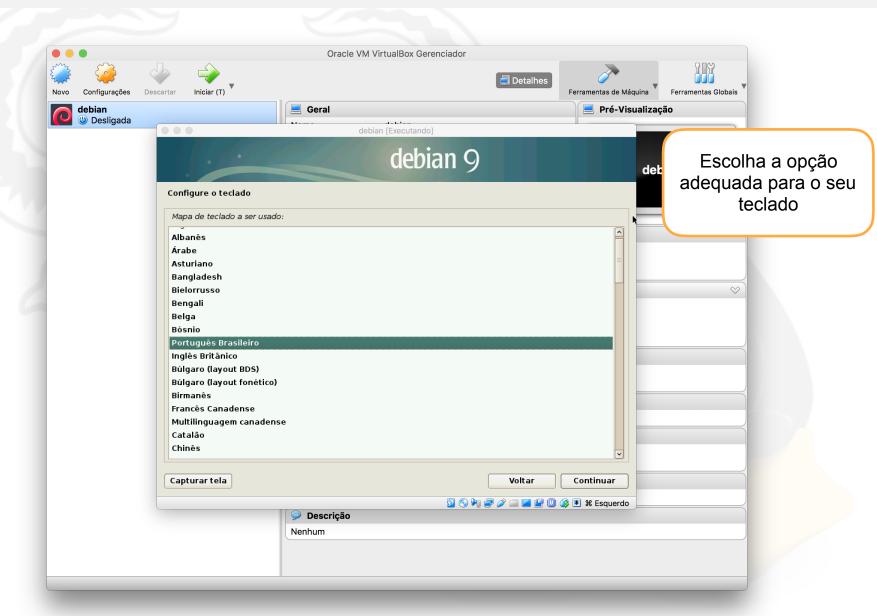


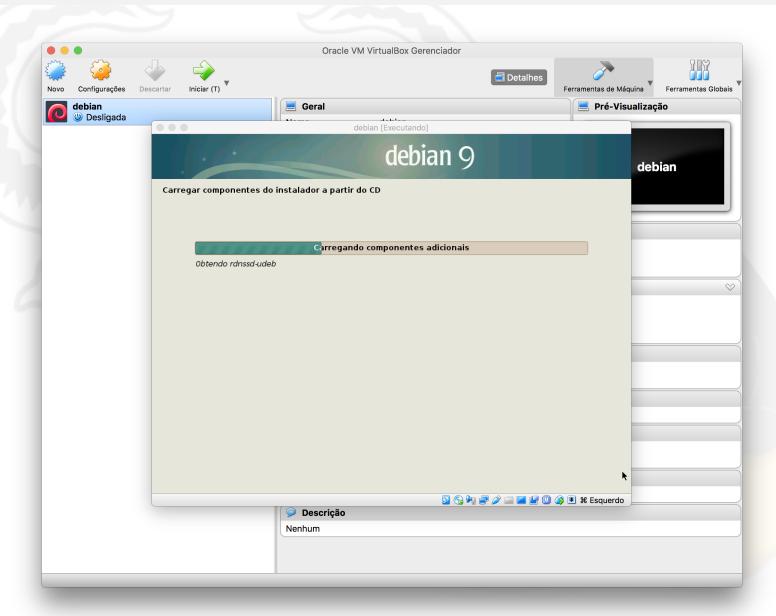


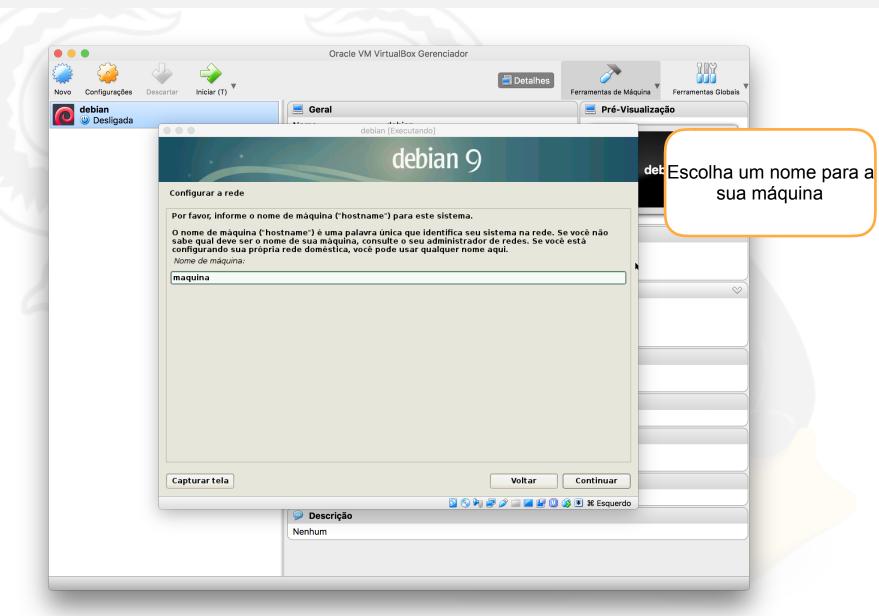


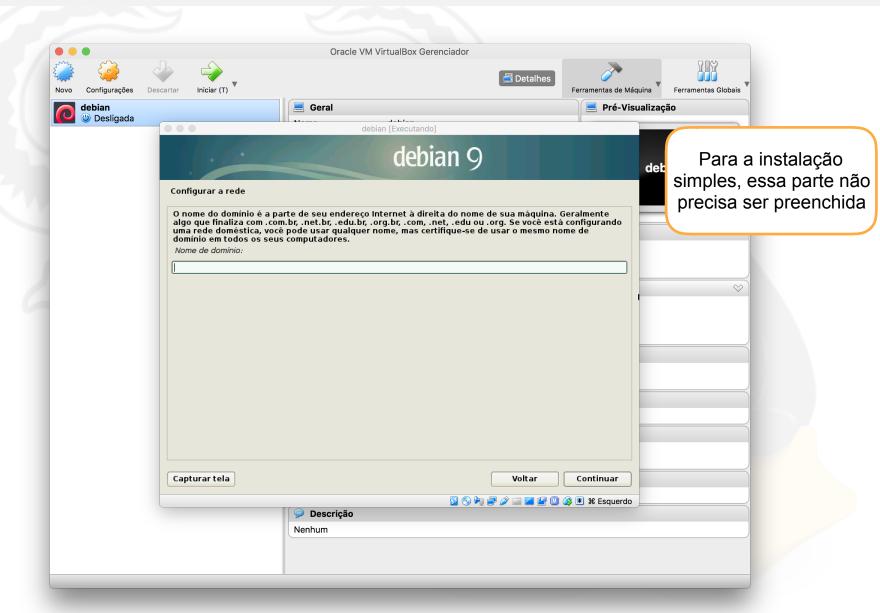


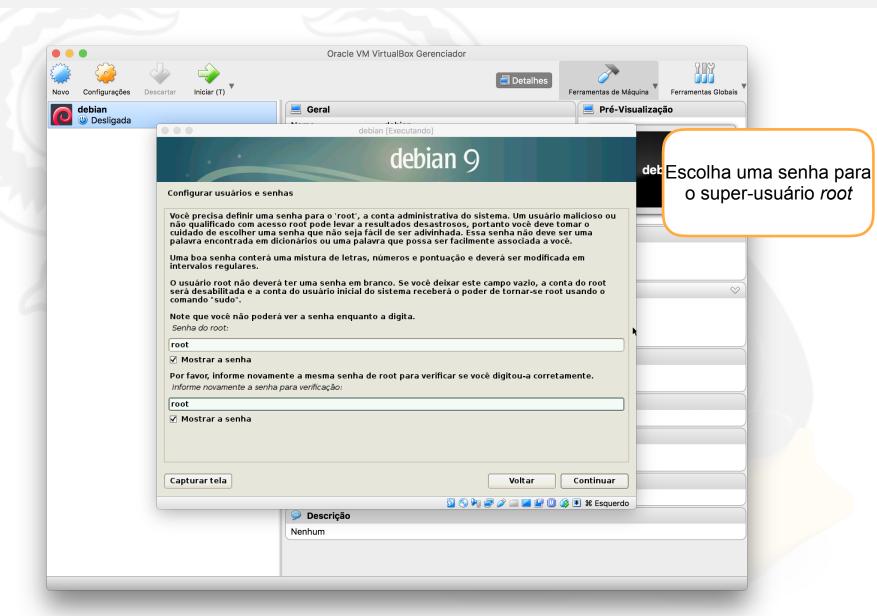


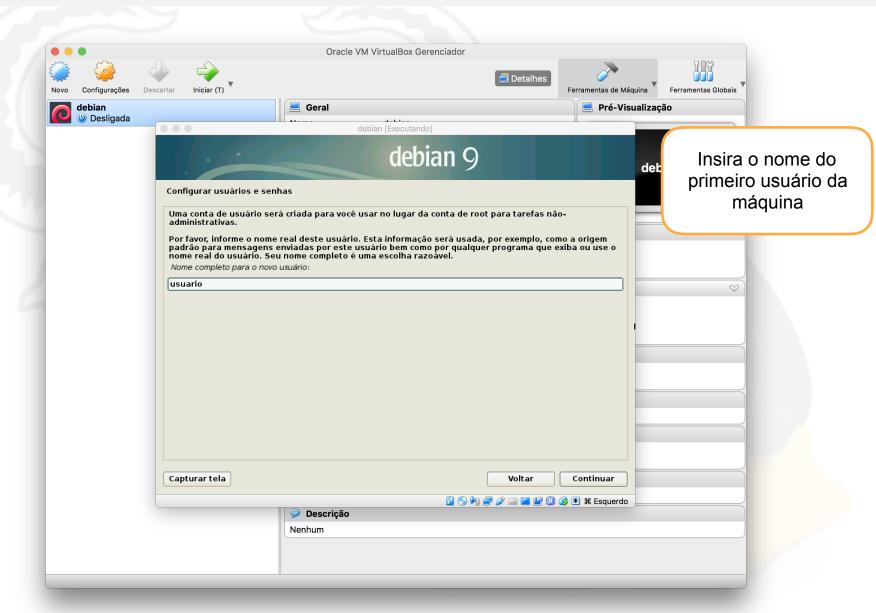


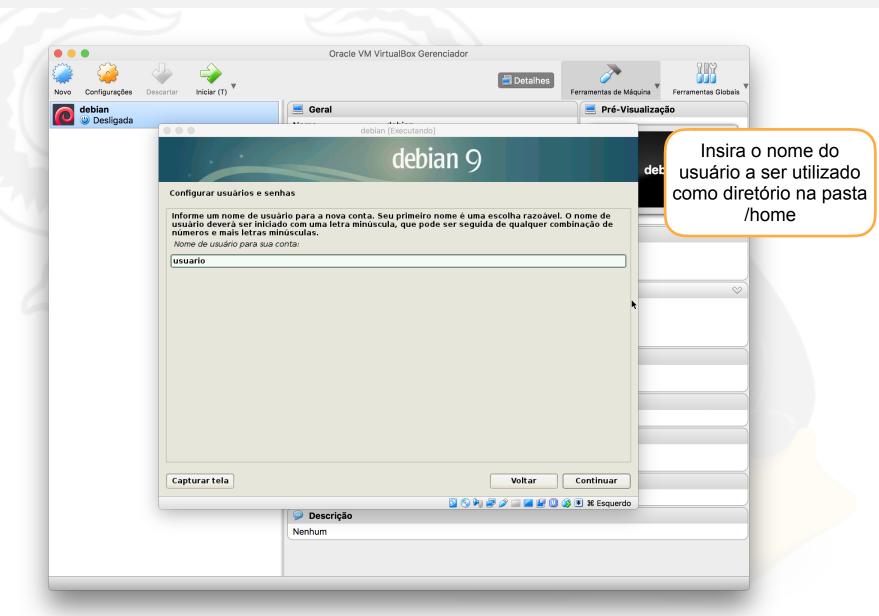


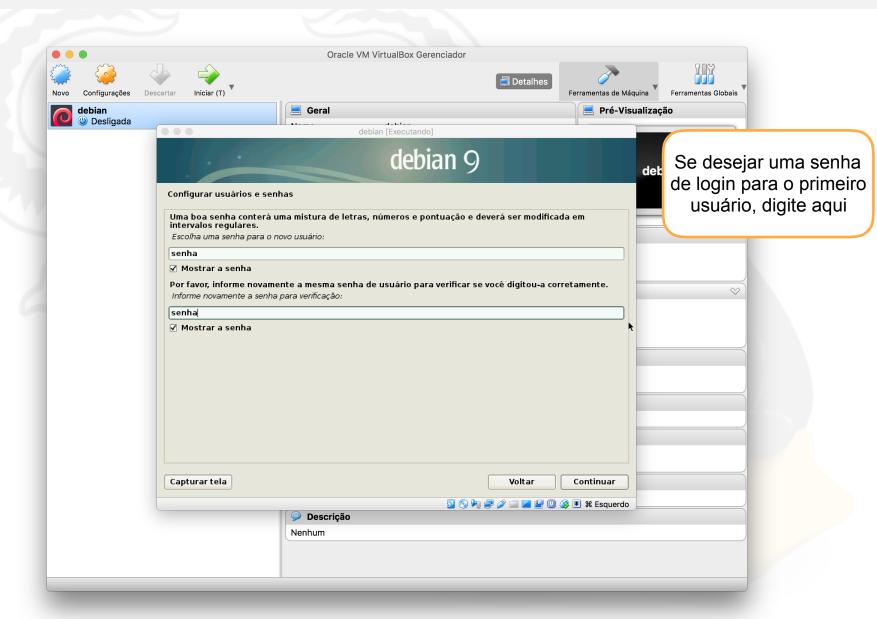


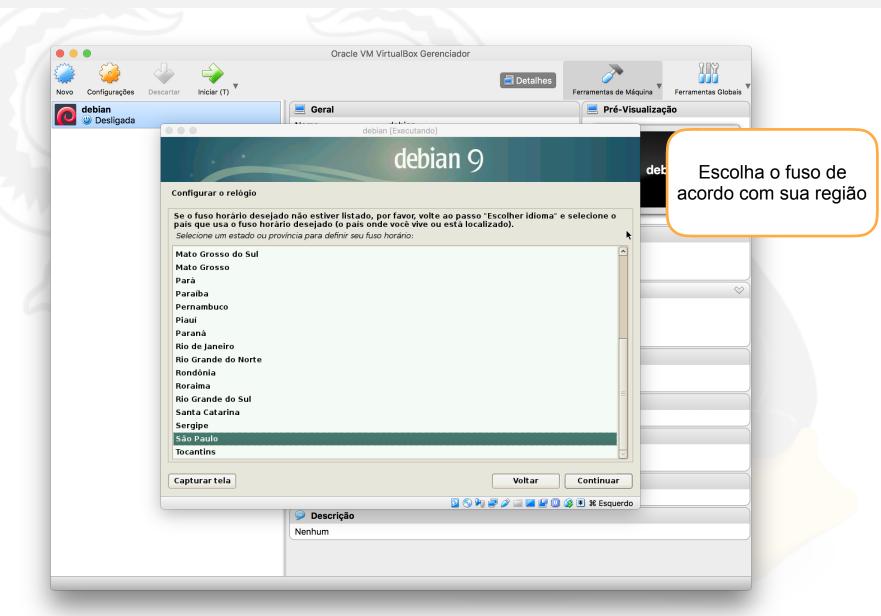


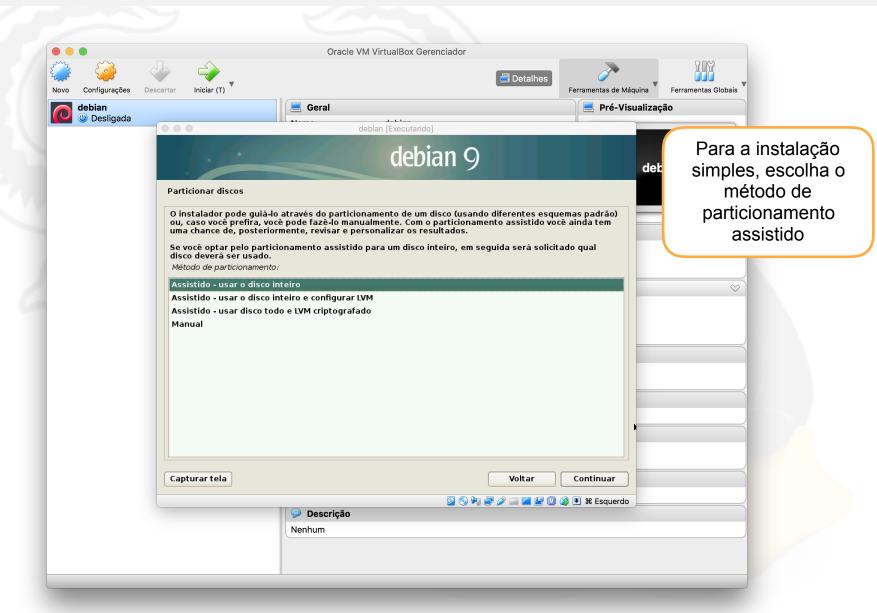


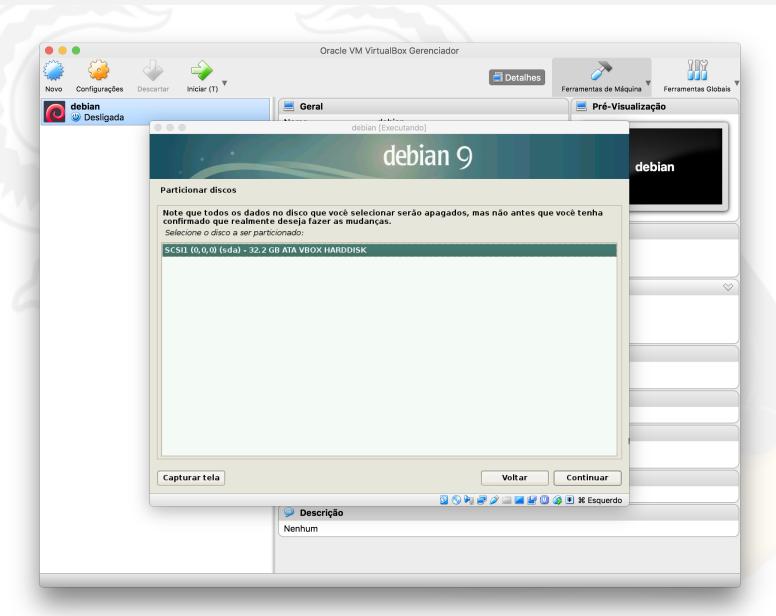


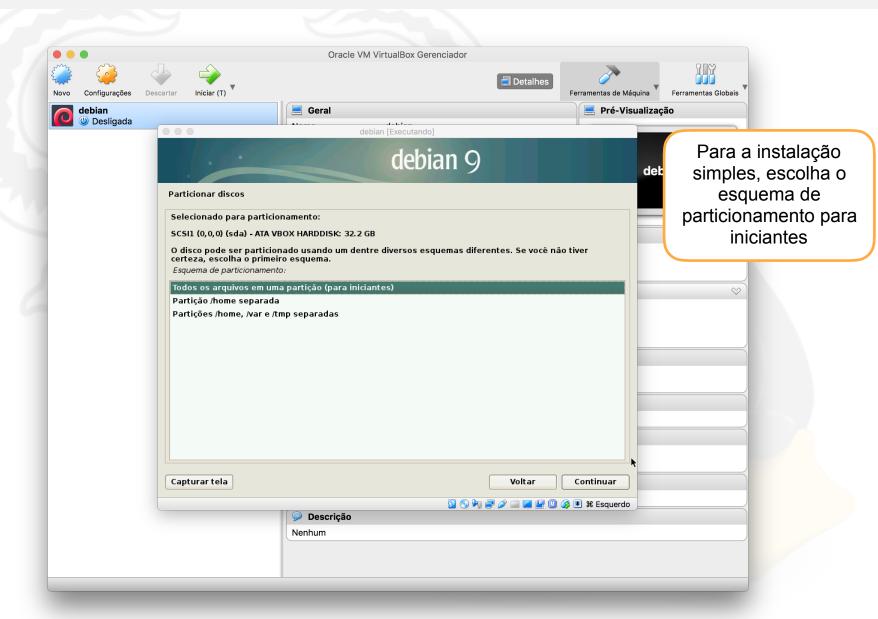


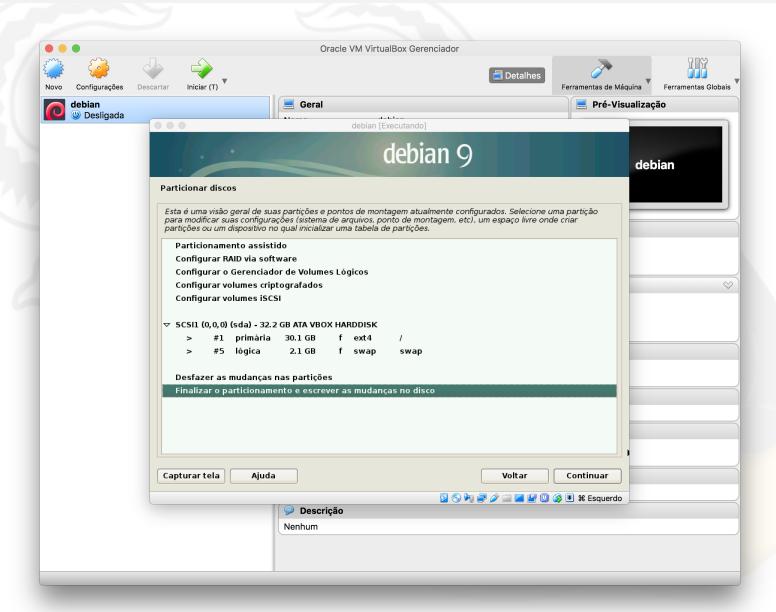


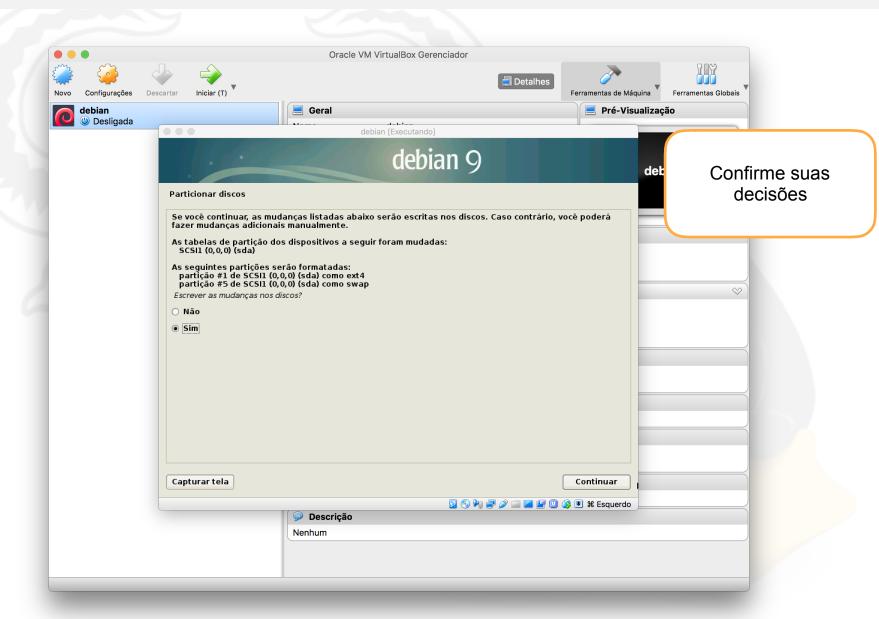


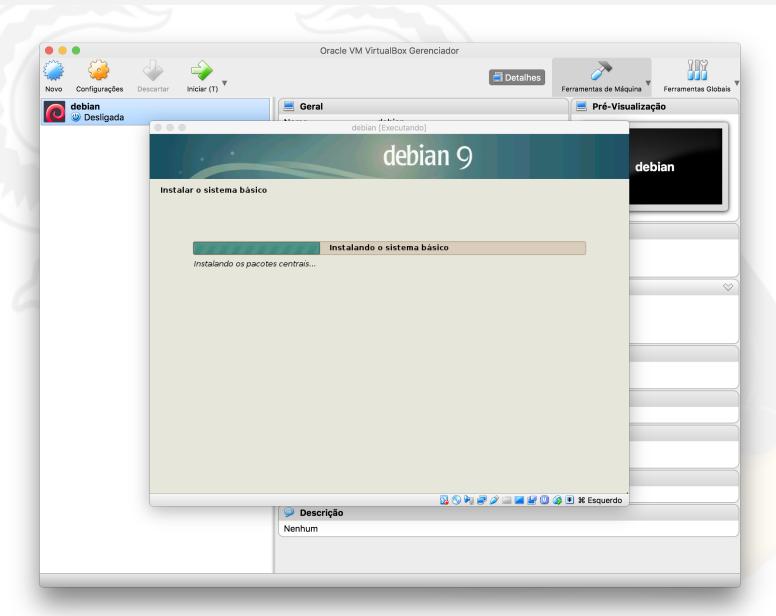


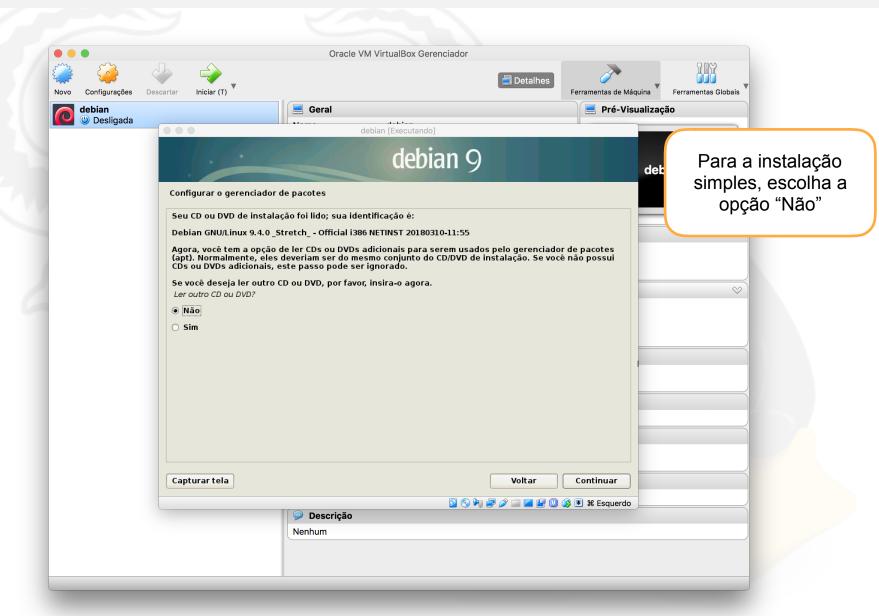


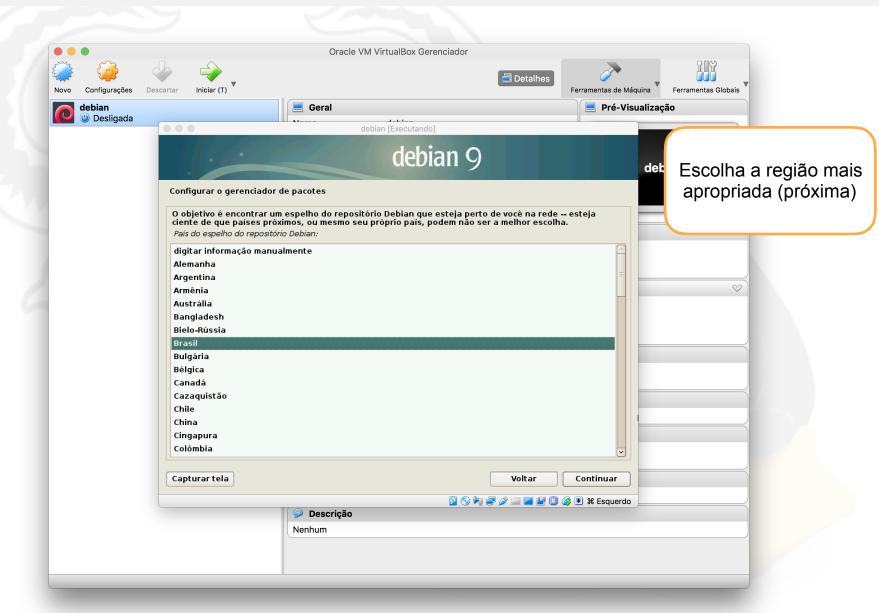


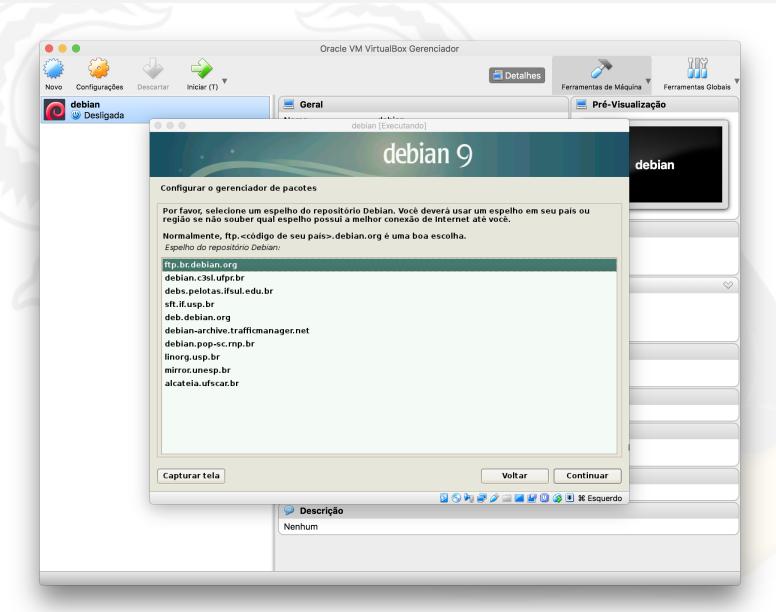


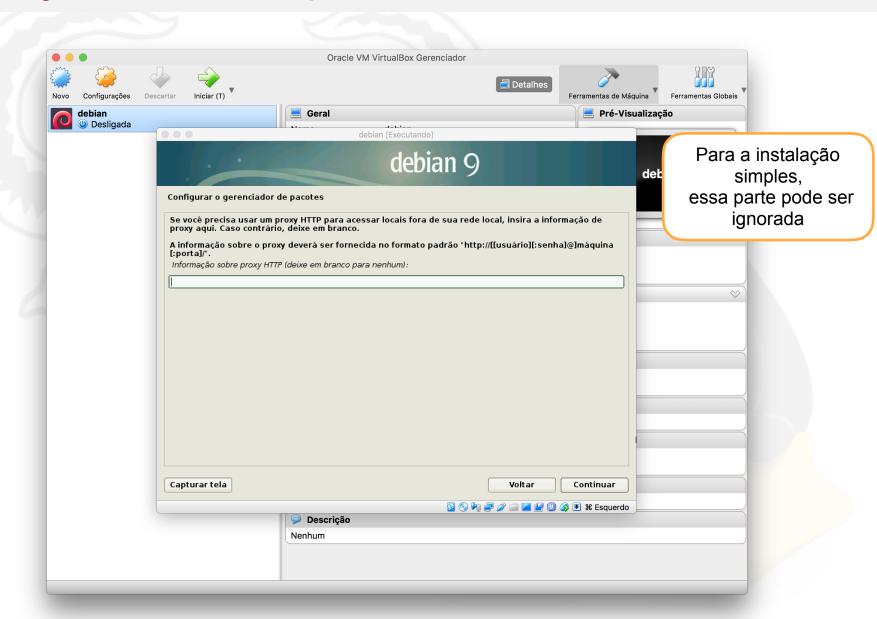


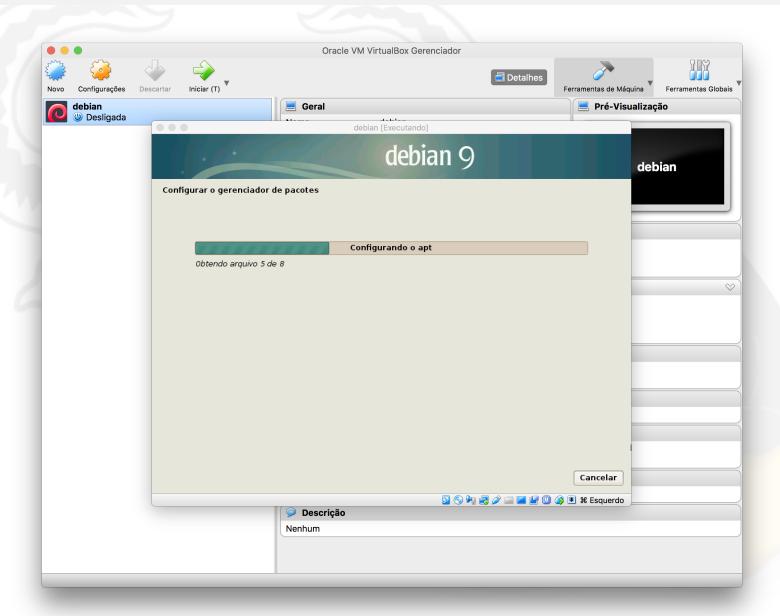


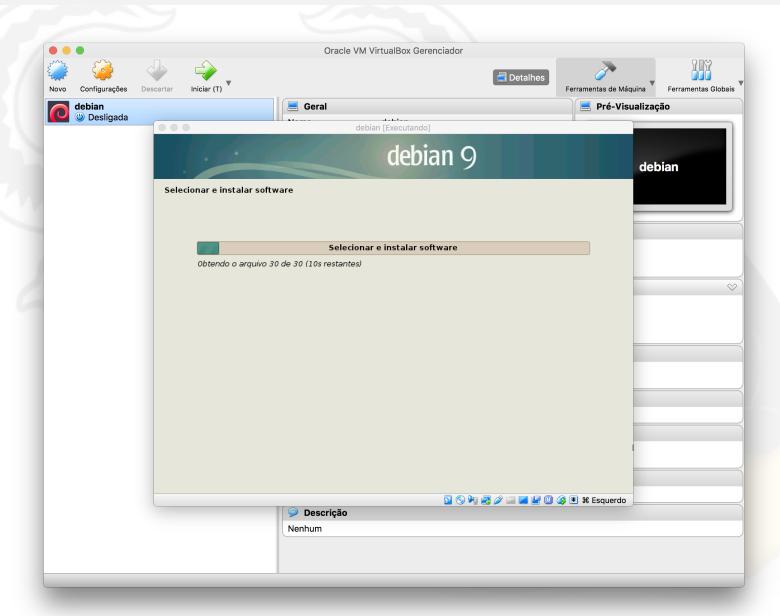




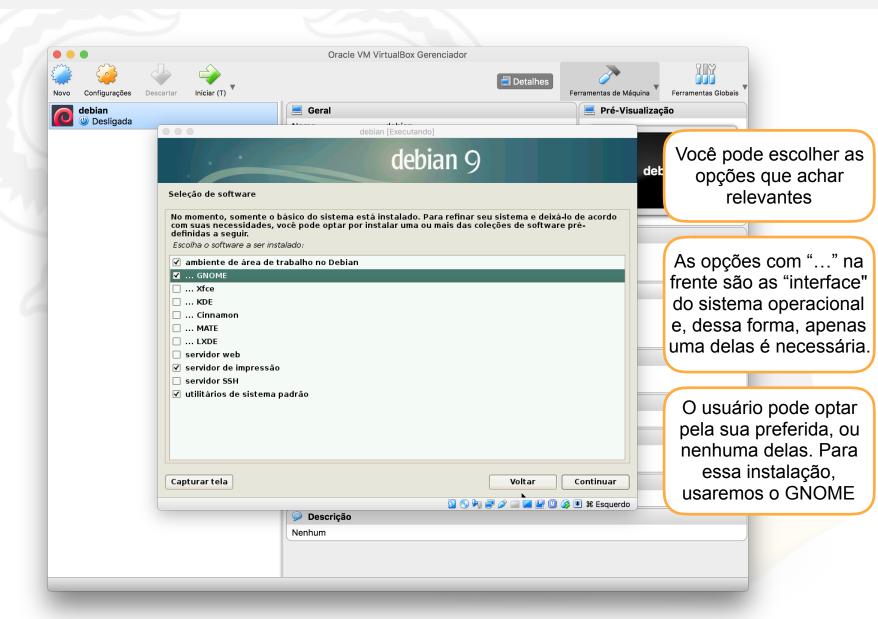






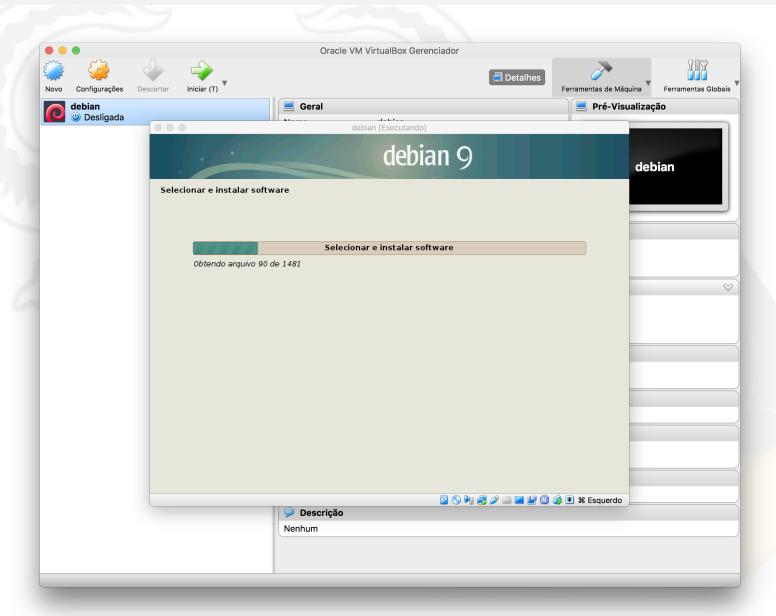




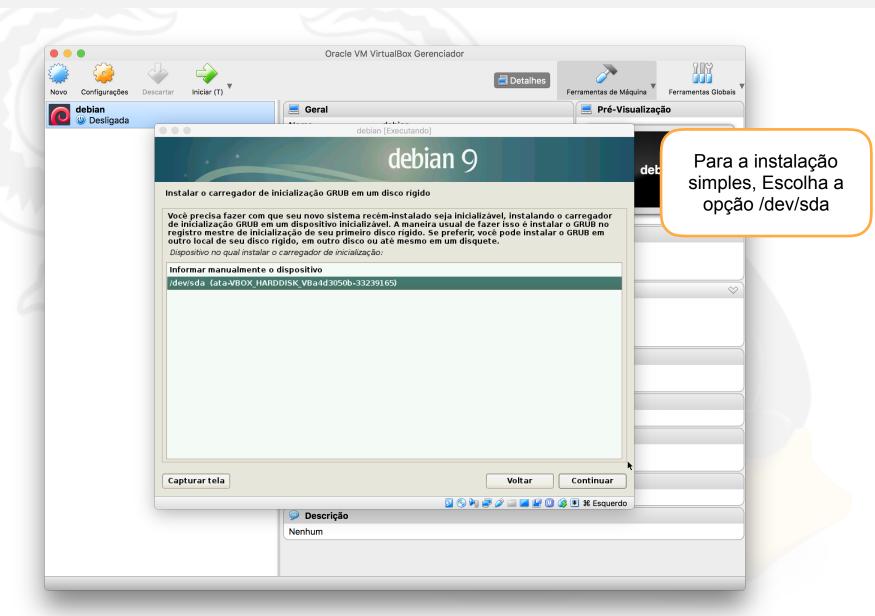


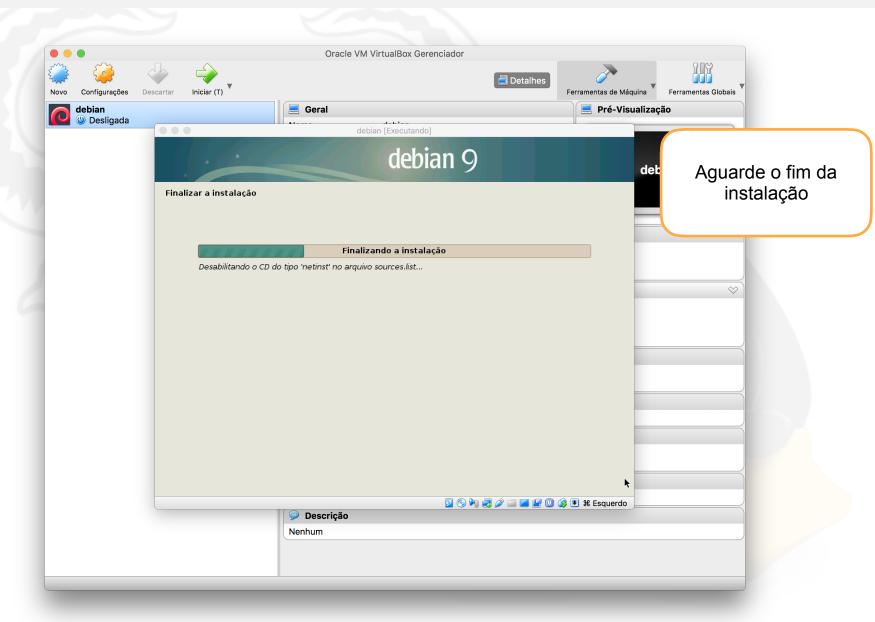
Introdução ao Linux

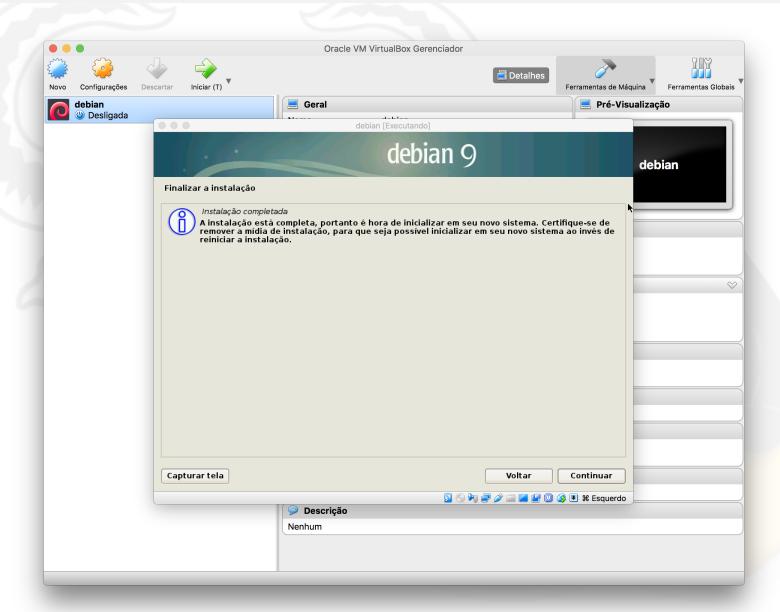
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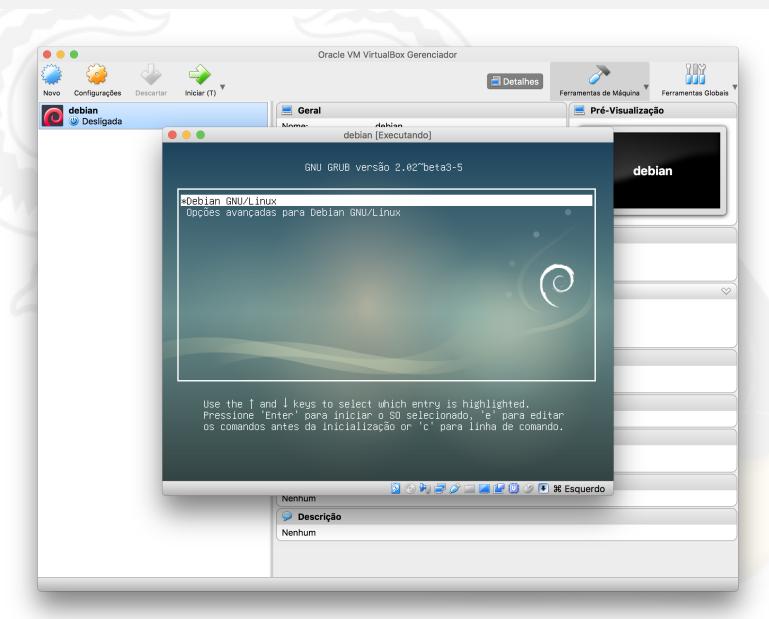


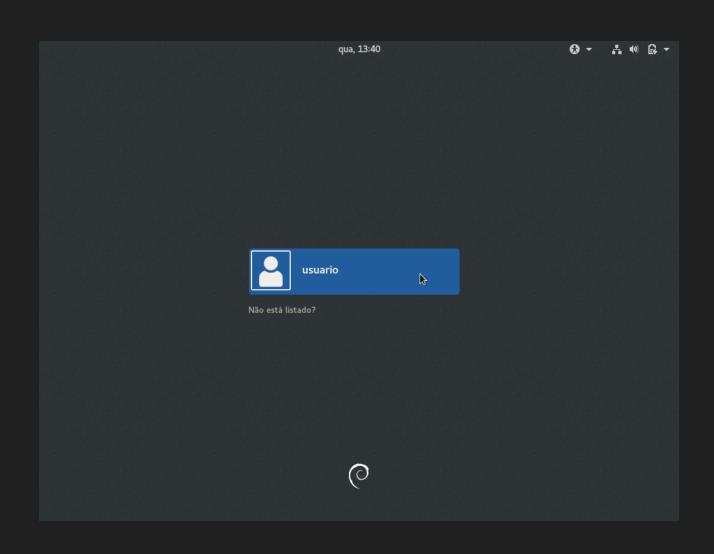




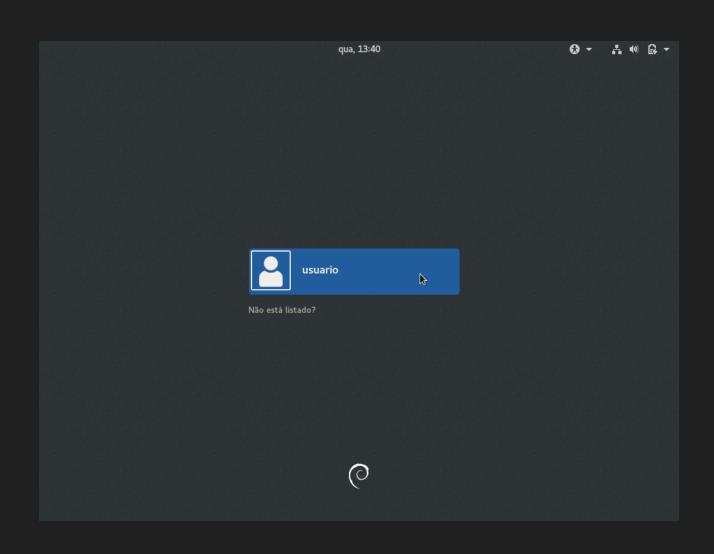








Aula 0, parte C Configuração do modo de Tela Cheia



Entre no modo de super-usuário *root*

```
usuario@maquina:~$ su
```

Atualize o sistema

root@maquina:/home/usuario:# apt update && apt upgrade

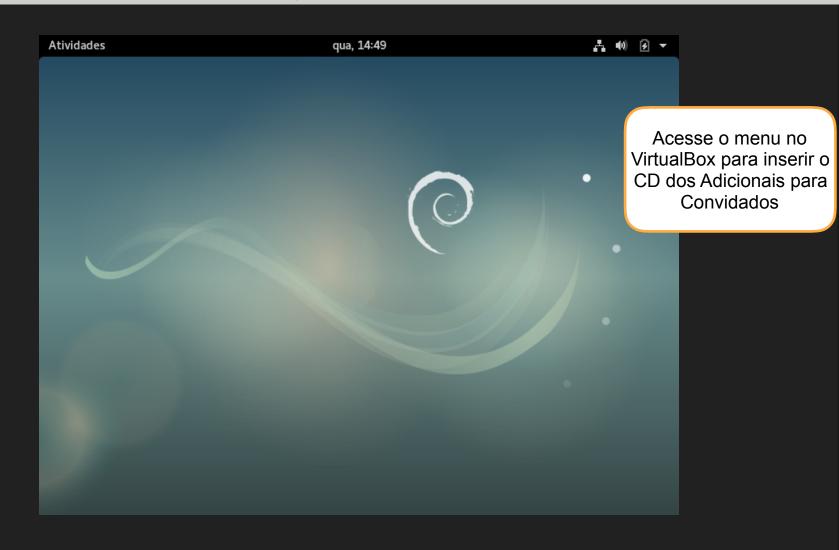
Instale os pacotes necessários

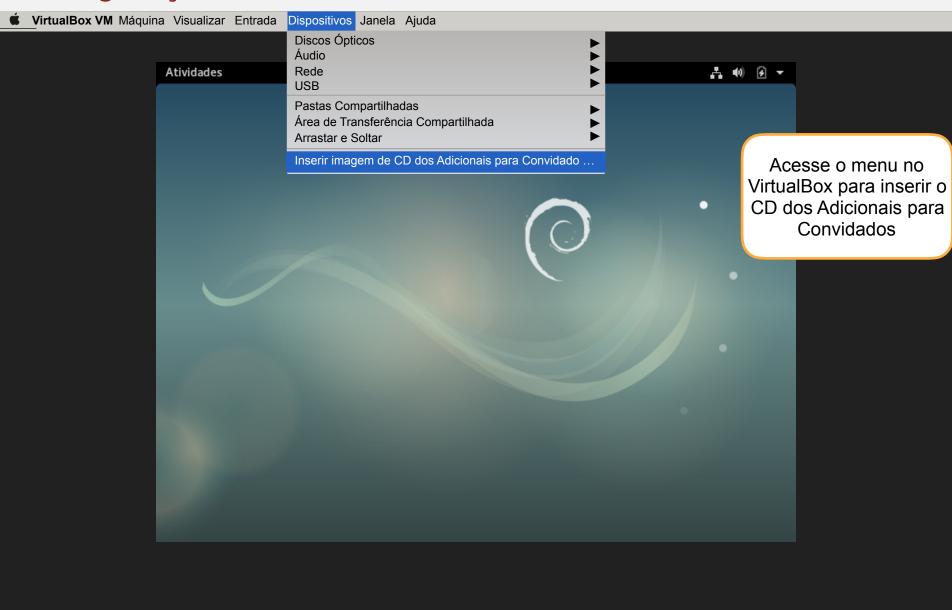
root@maquina:/home/usuario:# apt install gcc buildessential module-assistant

Instale os cabeçalhos do kernel

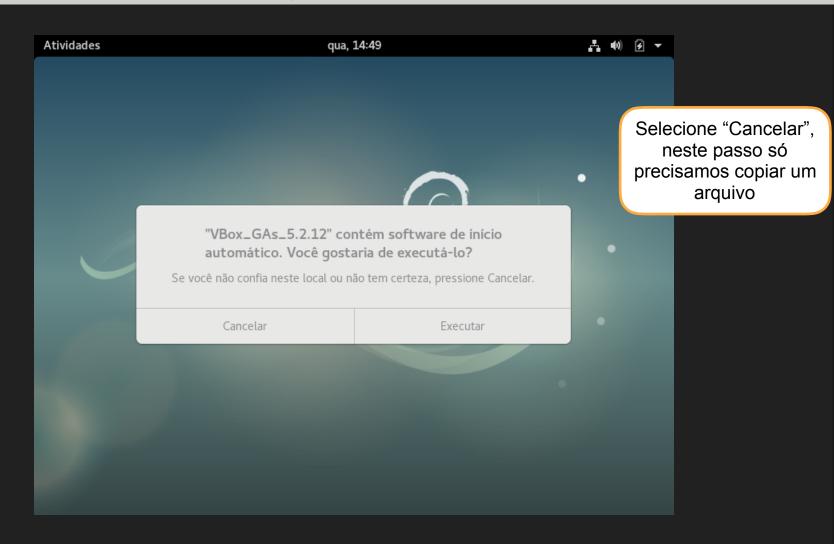
root@maquina:/home/usuario:# m-a prepare

▼ VirtualBox VM Máquina Visualizar Entrada Dispositivos Janela Ajuda





★ VirtualBox VM Máquina Visualizar Entrada Dispositivos Janela Ajuda



Copie o script VBoxLinuxAdditions.run da imagem de CD dos Adicionais para Convidado para o seu diretório /home/usuario

root@maquina:/home/usuario:# cp /media/cdrom0/
VBoxLinuxAdditions.run .

Execute o script

root@maquina:/home/usuario:# ./VBoxLinuxAdditions.run

Reinicia a Máquina Virtual



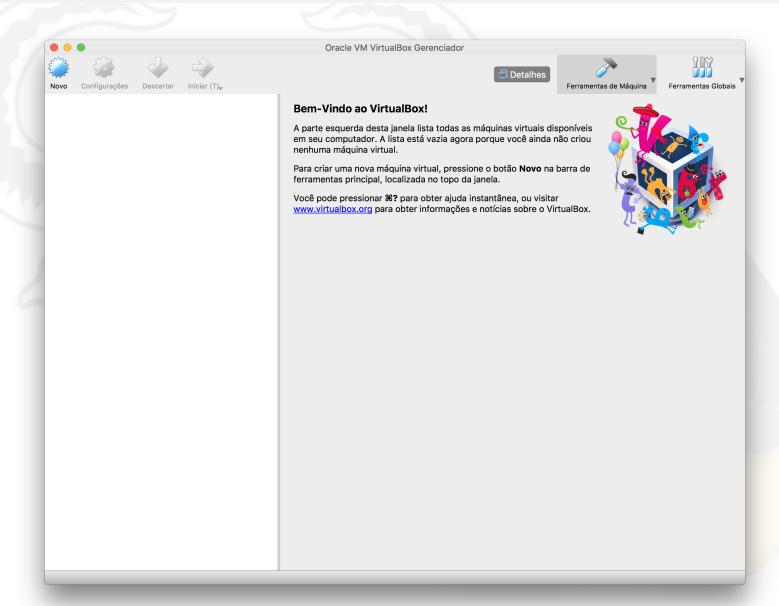


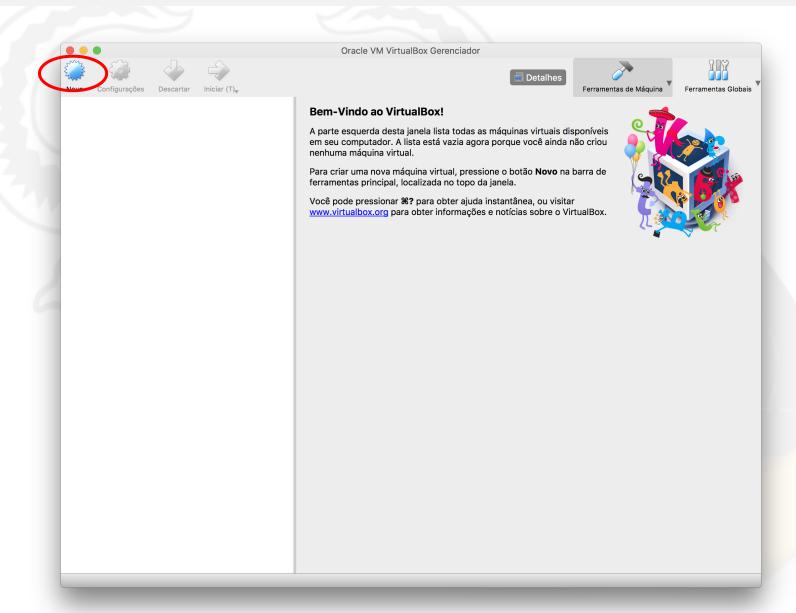
Aula 0, parte D Adição de um Disco Virtual pré-existente

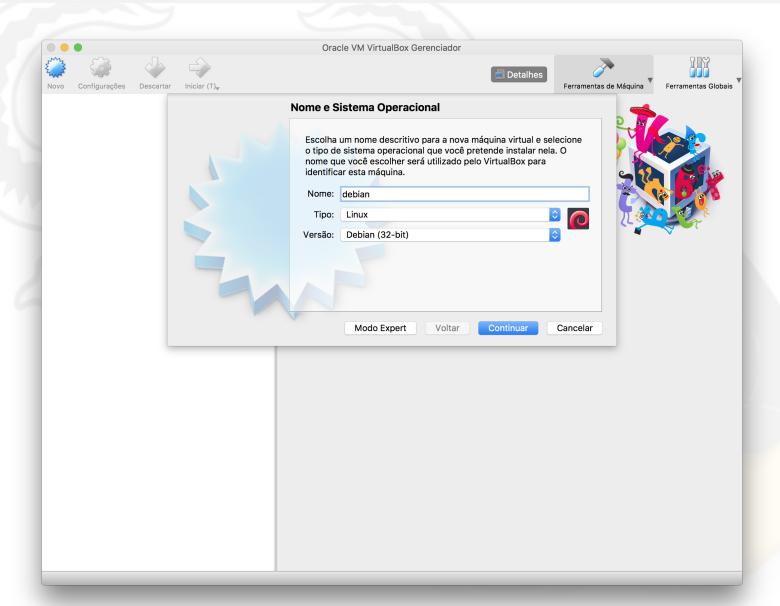
A Adição de um Disco Virtual difere ligeiramente daquela realizada durante a Criação do Disco Virtual e instalação do Sistema Operacional, pois já usa um arquivo DVI com Sistema Operacional instalado e configurado e, por tanto, é mais simples.

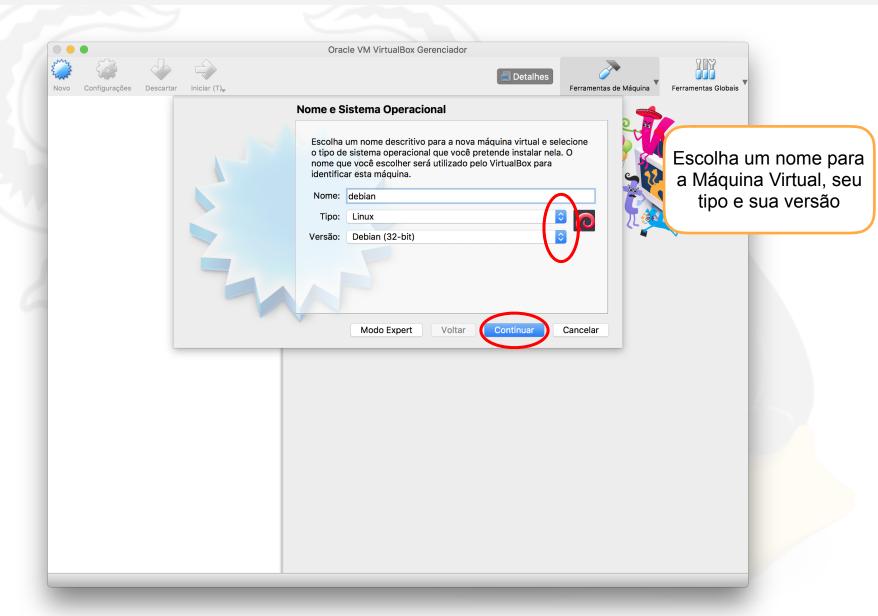
Esse passo é importante, pois um Disco Virtual pode ser compartilhado (copiado) para outros computadores.

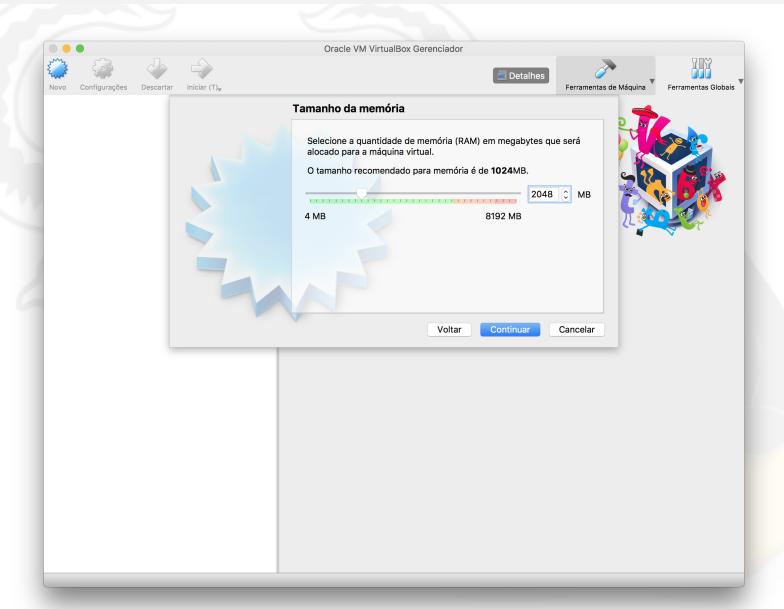




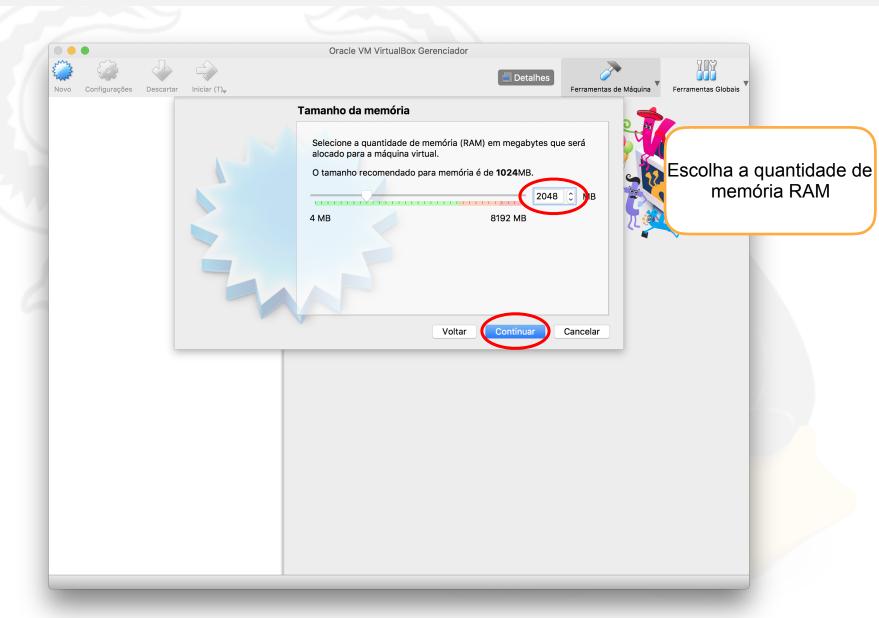


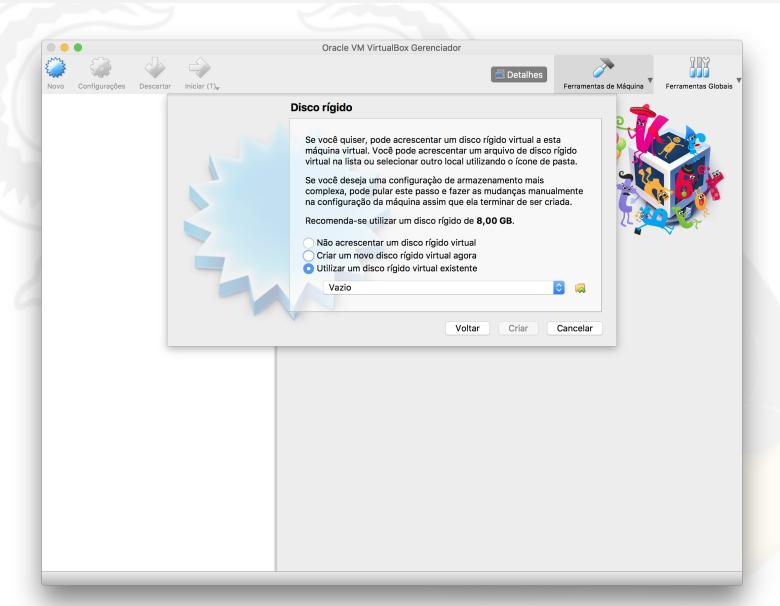


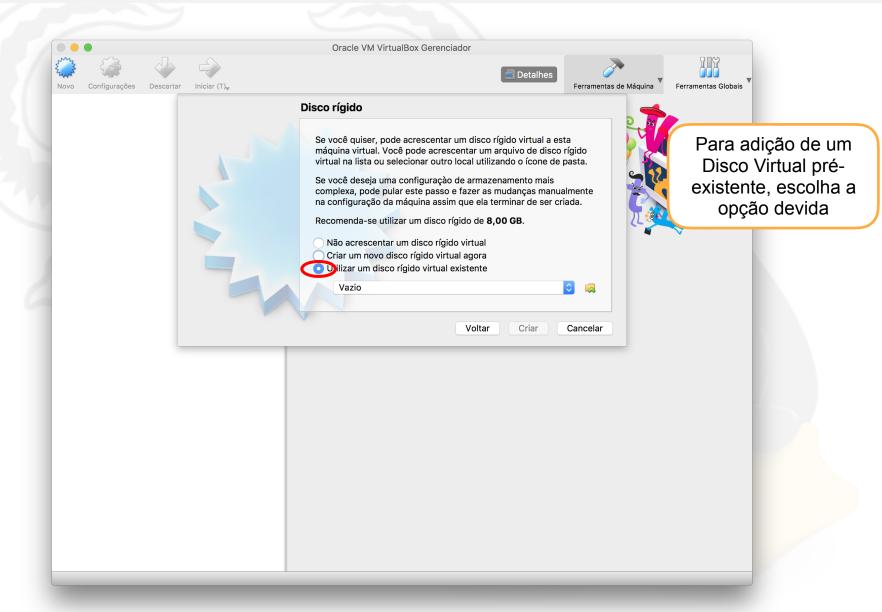


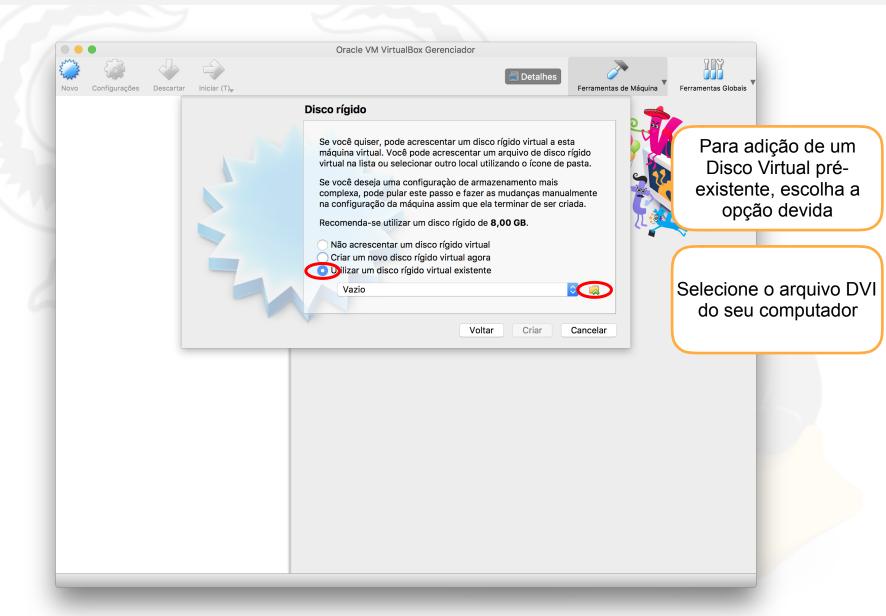


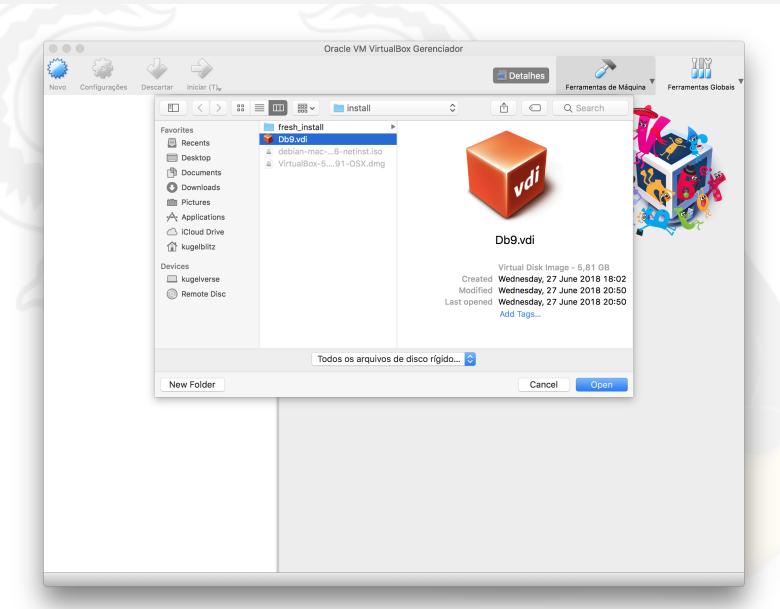
23 de julho de 2018

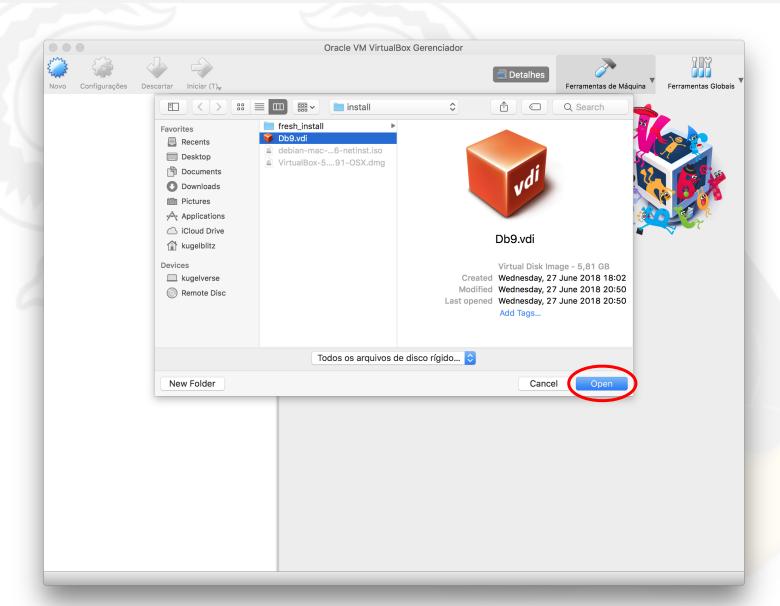


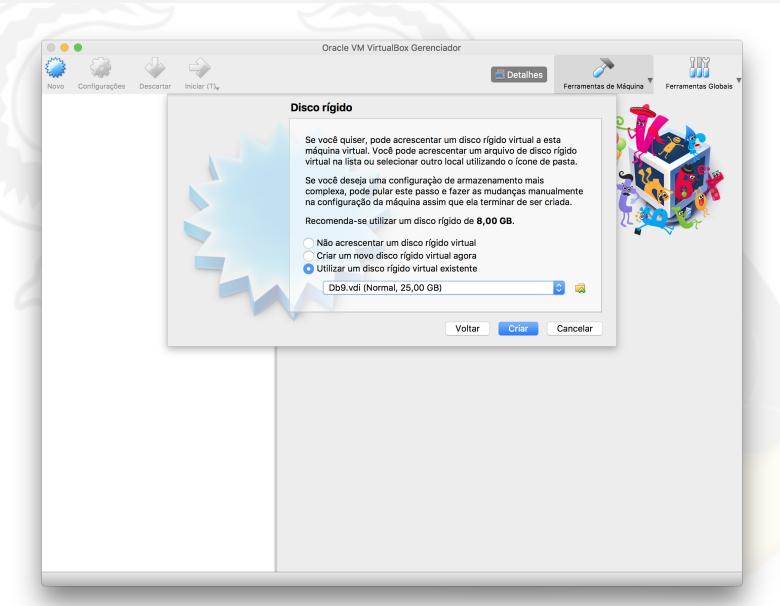


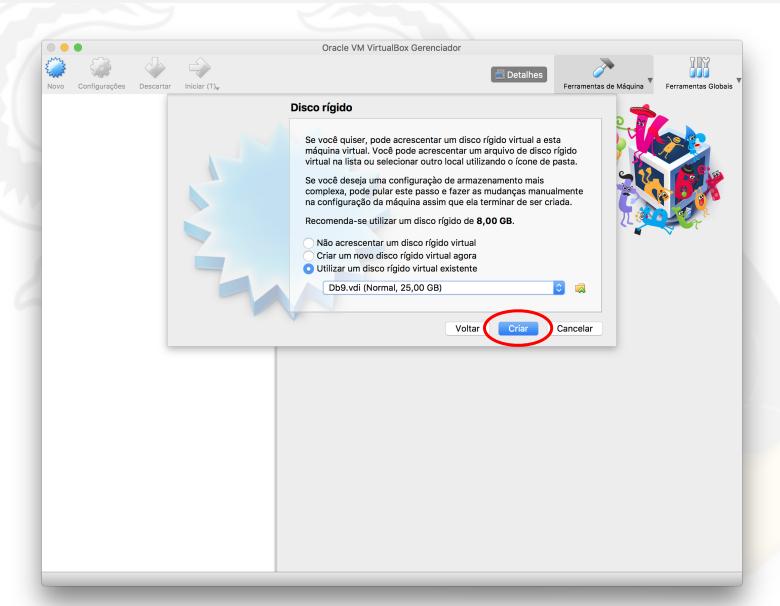


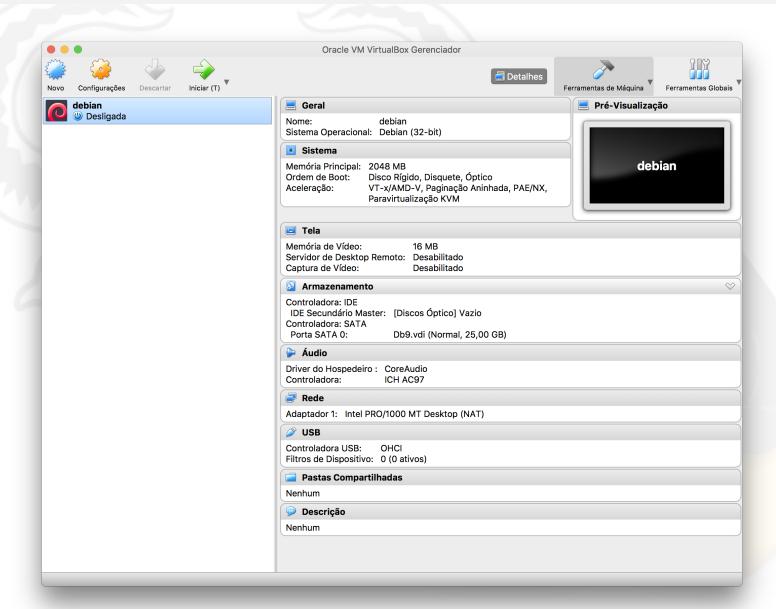


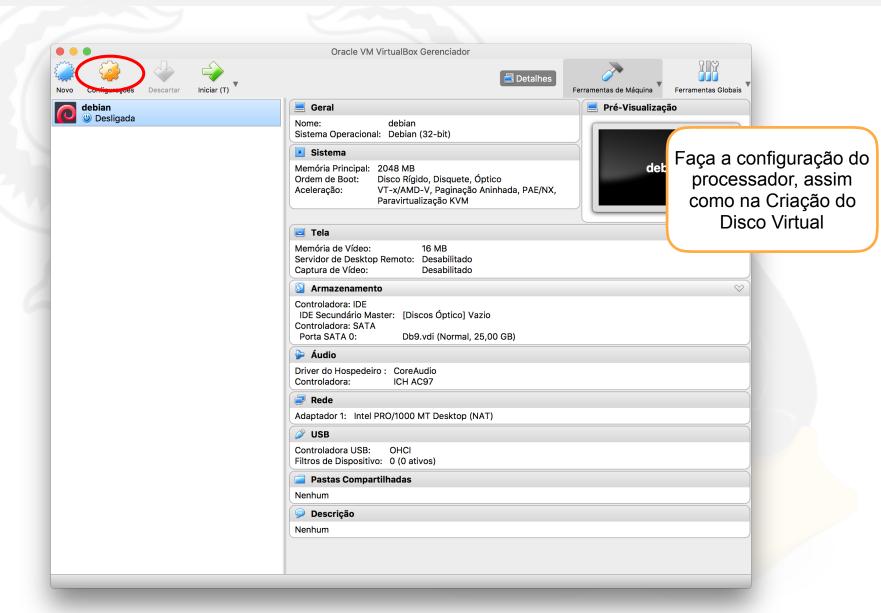


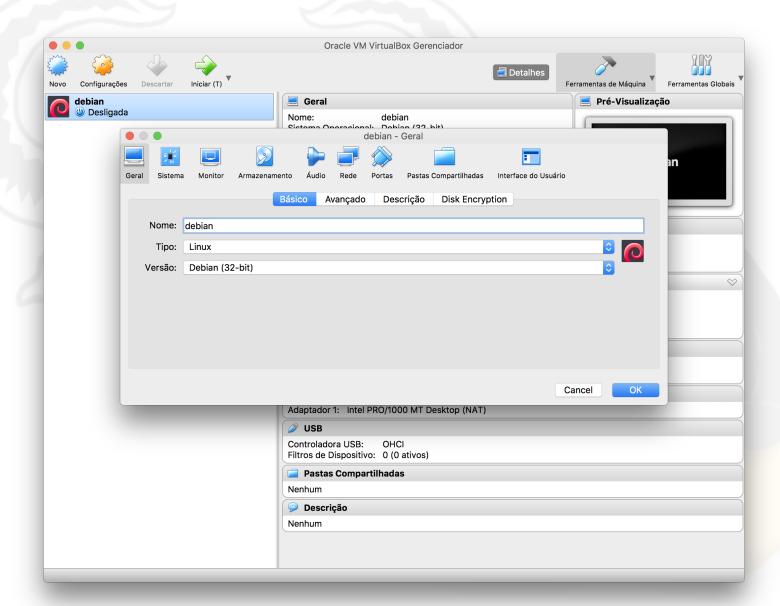












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