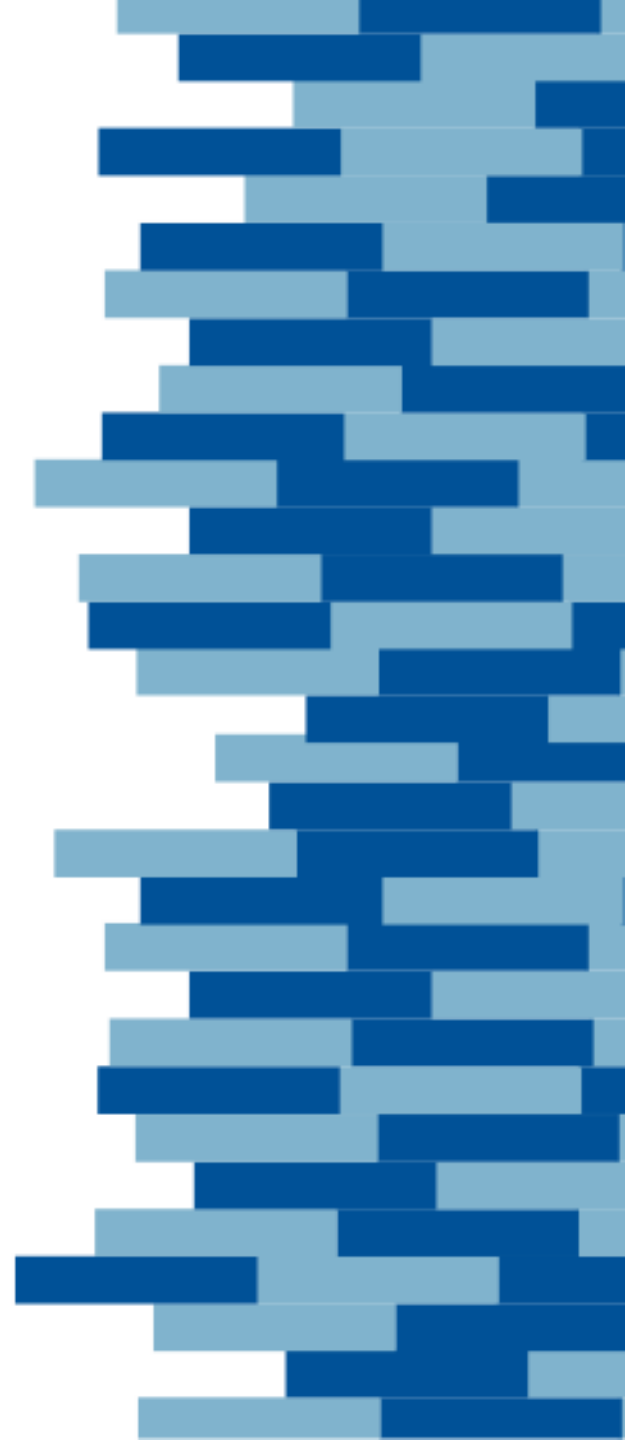


# **Escola SENAI de Informática**

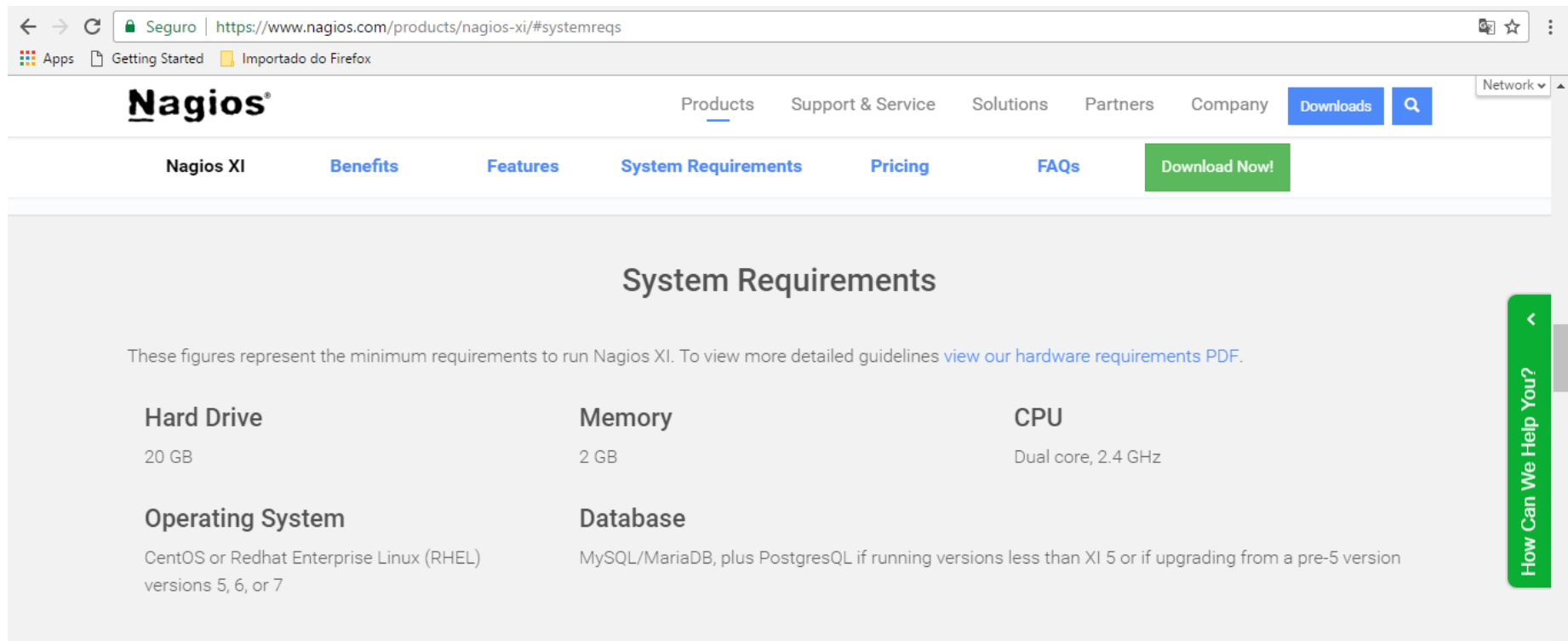
## **Gerenciamento de Redes**

### **Aula 4**



- Instalação do CentOS
- Instalação do Nagios
- Configuração do Nagios

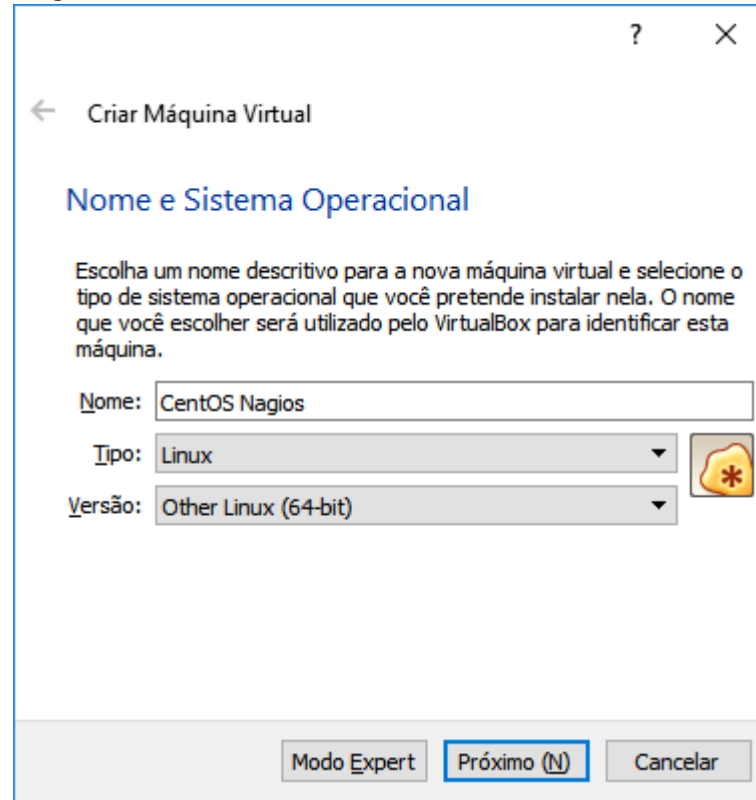
Para a instalação do Nagios XI, a recomendação é que seja utilizado sistema operacional Linux CentOS ou Redhat:



The screenshot shows the Nagios XI System Requirements page. The browser address bar displays the URL <https://www.nagios.com/products/nagios-xi/#systemreqs>. The page features a navigation bar with links for Nagios XI, Benefits, Features, System Requirements (active), Pricing, FAQs, and a Download Now! button. The main content area is titled "System Requirements" and includes a note that the figures represent minimum requirements. Below this, there are five categories of requirements: Hard Drive (20 GB), Memory (2 GB), CPU (Dual core, 2.4 GHz), Operating System (CentOS or Redhat Enterprise Linux (RHEL) versions 5, 6, or 7), and Database (MySQL/MariaDB, plus PostgreSQL if running versions less than XI 5 or if upgrading from a pre-5 version). A vertical green sidebar on the right contains the text "How Can We Help You?" with a back arrow.

Requirement Category	Requirement Details
Hard Drive	20 GB
Memory	2 GB
CPU	Dual core, 2.4 GHz
Operating System	CentOS or Redhat Enterprise Linux (RHEL) versions 5, 6, or 7
Database	MySQL/MariaDB, plus PostgreSQL if running versions less than XI 5 or if upgrading from a pre-5 version

Seguiremos agora o passo a passo para a instalação do sistema operacional CentOS com as recomendações de hardware do fabricante:




← Criar Máquina Virtual

**Nome e Sistema Operacional**

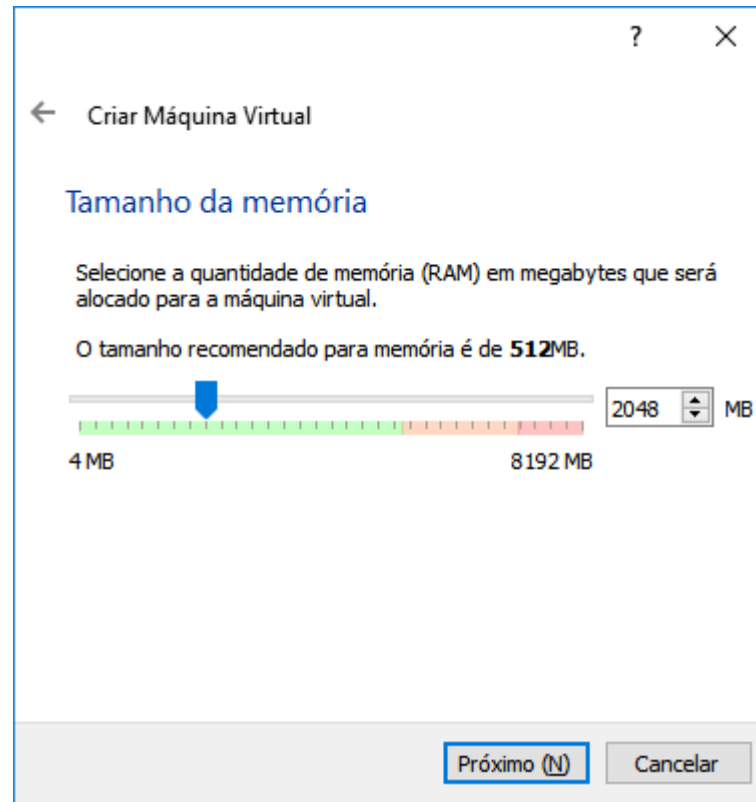
Escolha um nome descritivo para a nova máquina virtual e selecione o tipo de sistema operacional que você pretende instalar nela. O nome que você escolher será utilizado pelo VirtualBox para identificar esta máquina.

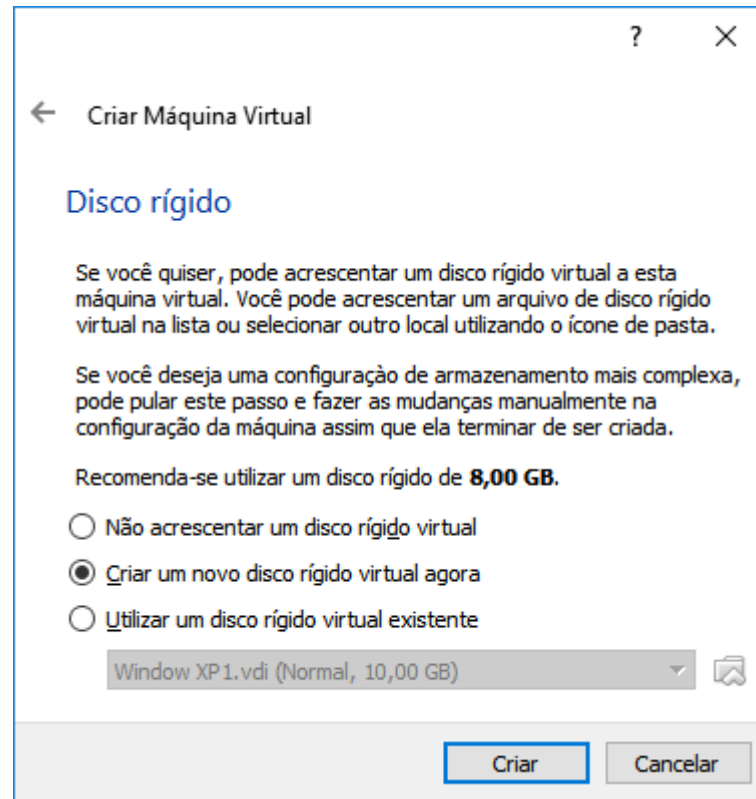
Nome:

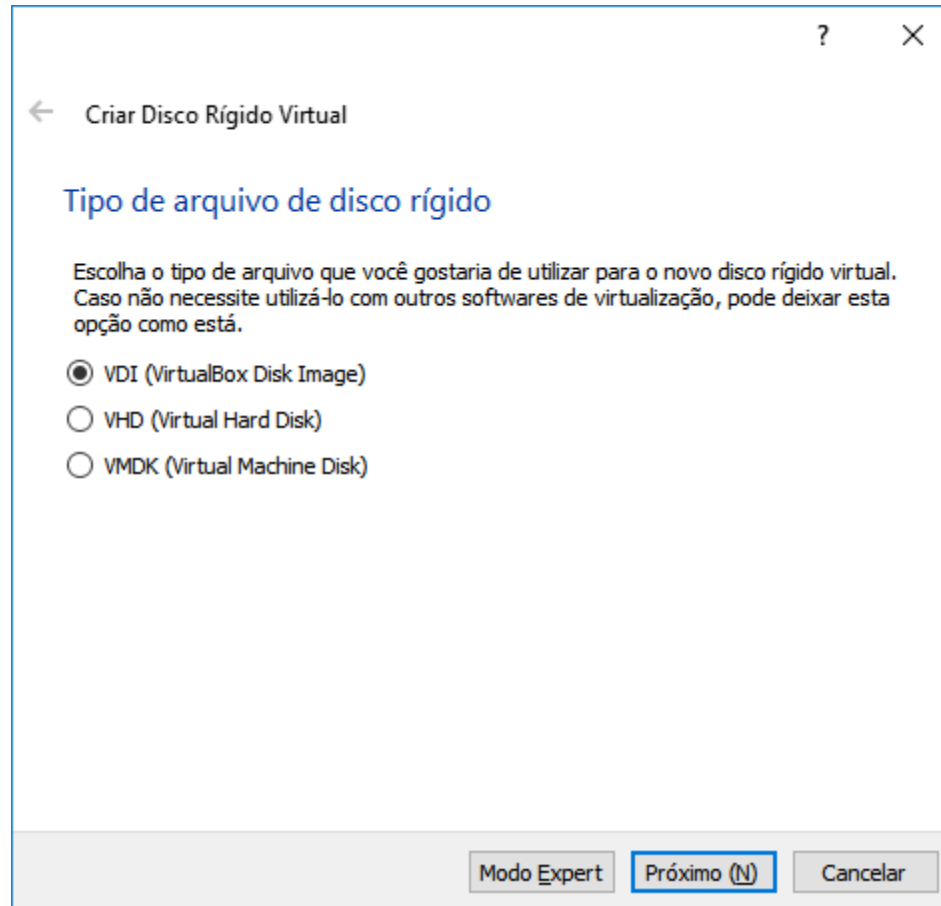
Tipo:  

Versão:

Modo Expert **Próximo (N)** Cancelar







? ×

← Criar Disco Rígido Virtual

### Armazenamento em disco rígido físico

Escolha se o arquivo contendo o disco rígido virtual deve crescer à medida em que é utilizado (dinamicamente alocado) ou se ele deve ser criado já com o tamanho máximo (tamanho fixo).

Um arquivo de disco rígido virtual **dinamicamente alocado** irá utilizar espaço em seu disco rígido físico à medida em que for sendo utilizado (até um **tamanho máximo pré-definido**), mas não irá encolher caso seja liberado espaço nele.

Um arquivo de disco rígido virtual de **tamanho fixo** pode levar mais tempo para ser criado em alguns sistemas, mas geralmente possui acesso mais rápido.

☒ Dinamicamente alocado

☐ Tamanho Fixo

Próximo (N)

Cancelar




? ×

← Criar Disco Rígido Virtual

### Localização e tamanho do arquivo

Informe o nome do arquivo em disco que conterá o disco virtual no campo abaixo ou clique no ícone da pasta para selecionar uma localização diferente para o arquivo.



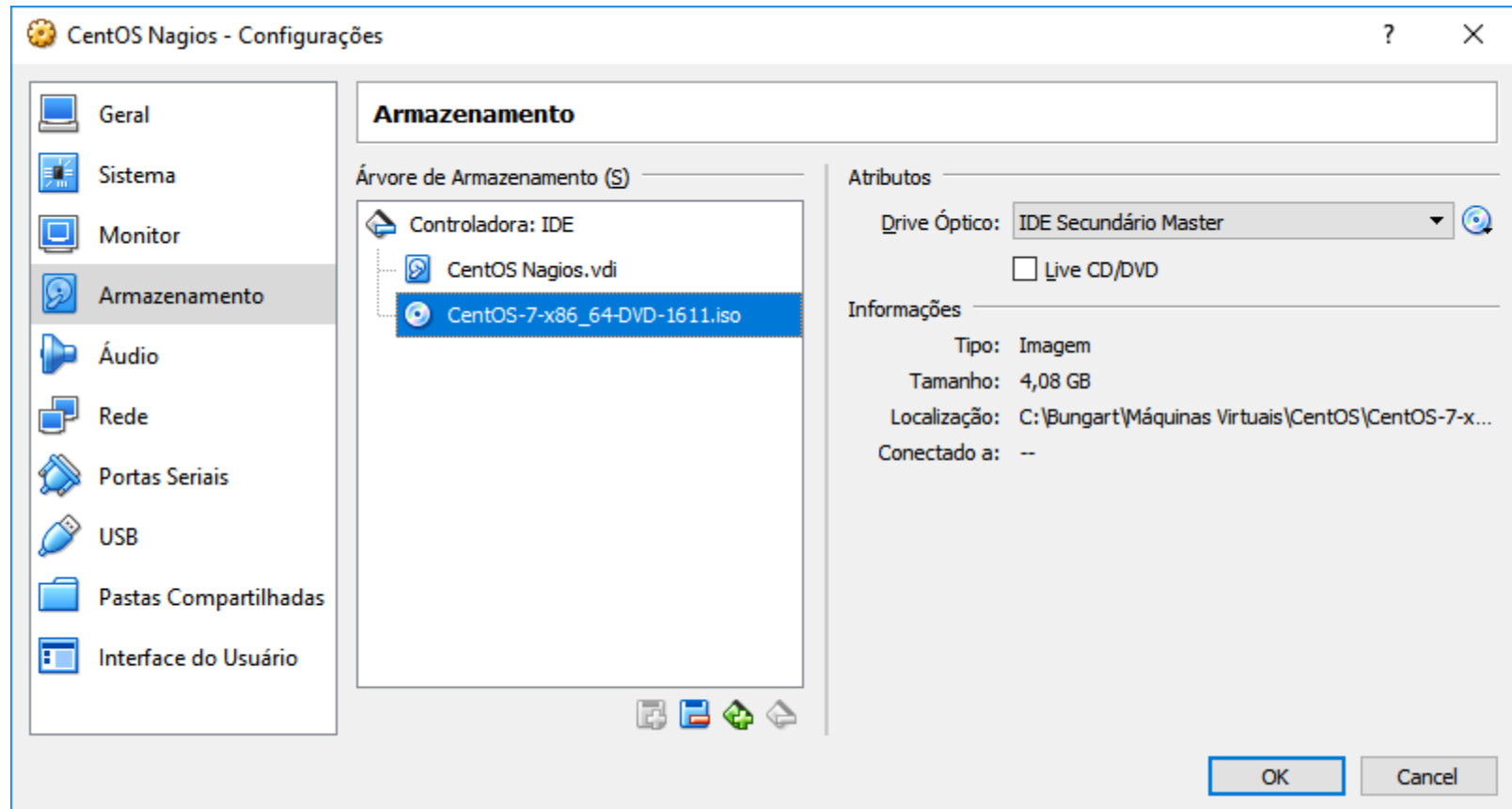
Selecione o tamanho da imagem de disco virtual em megabytes. Este tamanho é o limite máximo de dados que uma máquina virtual poderá armazenar neste disco rígido.

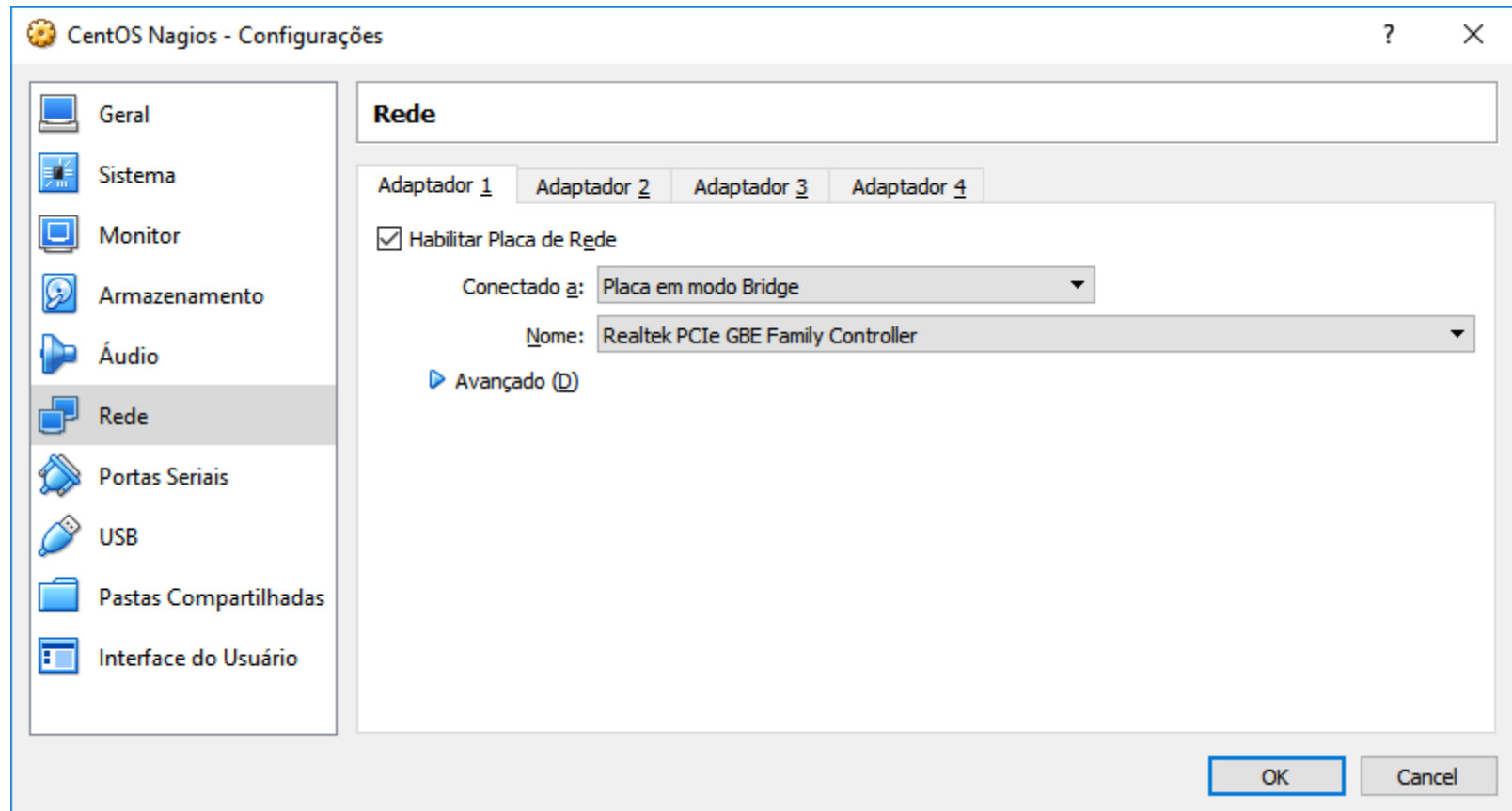
4,00 MB2,00 TB

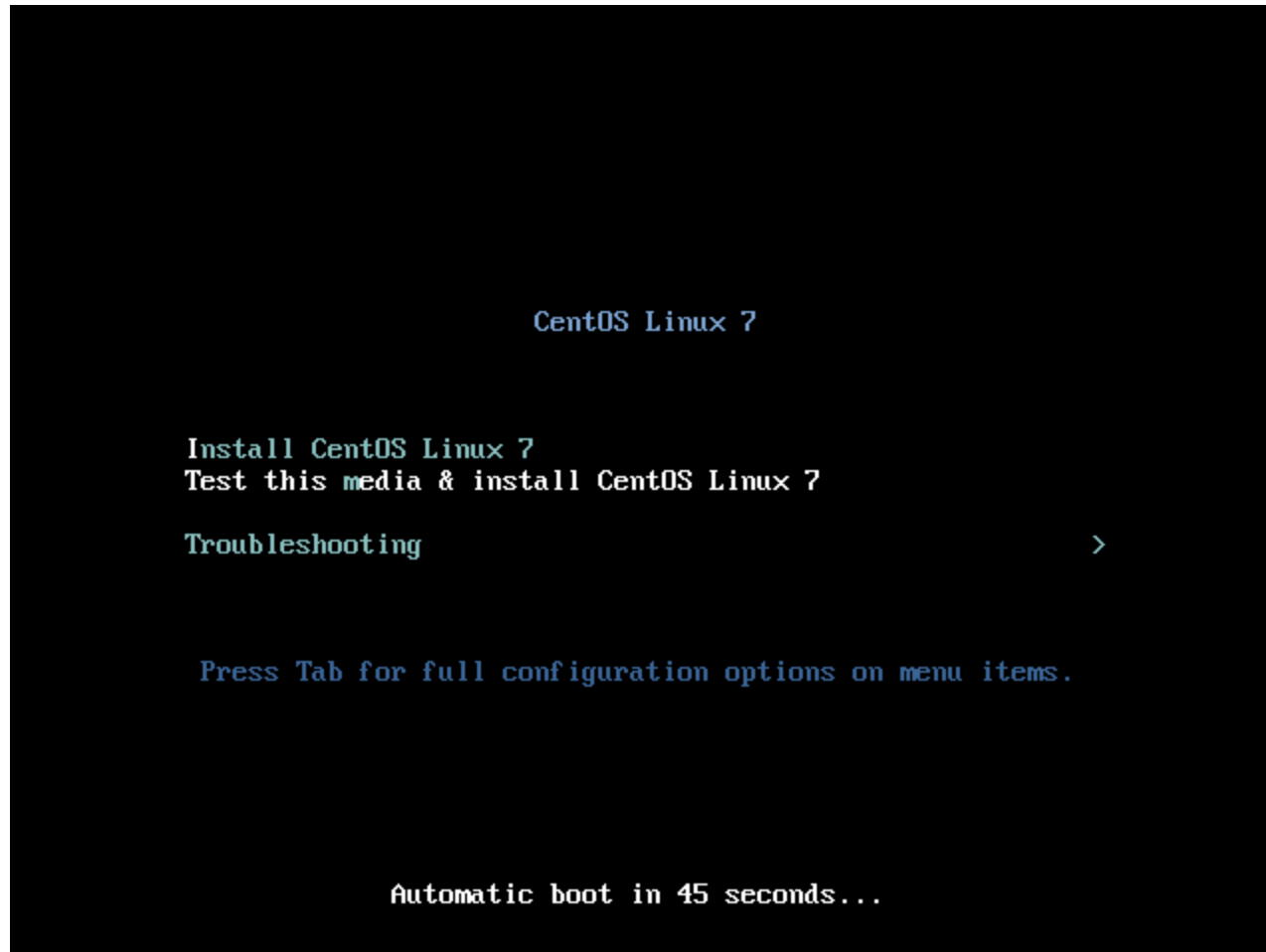
20,00 GB

Criar

Cancelar









INSTALAÇÃO DO CENTOS LINUX 7

us

Ajuda!

## SEJA BEM VINDO AO CENTOS LINUX 7.

Qual idioma você deseja utilizar durante o processo de instalação?

Español	Spanish
فارسی	Persian
日本語	Japanese
नेपाली	Nepali
ਪੰਜਾਬੀ	Punjabi
Polski	Polish
Português	Portuguese >
Shqip	Albanian

Português (Brasil)  
Português (Portugal)

p

Sair

Continuar

# Instalação do CentOS



## RESUMO DA INSTALAÇÃO

INSTALAÇÃO DO CENTOS LINUX 7

 **br**

[Ajuda!](#)

## LOCALIZAÇÃO



### DATA & HORÁRIO

*Fuso horário Américas/São Paulo*



### TECLADO

*Português (Brasil)*



### SUPOORTE A IDIOMAS

*Português (Brasil)*

## SOFTWARE



### FONTE DE INSTALAÇÃO

*Mídia local*



### SELEÇÃO DE SOFTWARE

*Instalações Mínimas*

## SISTEMA



### DESTINO INSTALAÇÃO

*Particionamento automático selecionado*



### KDUMP

*Kdump está ativado*



### REDE & NOME DO HOST

*Não conectado*



### SECURITY POLICY

*Nenhum perfil selecionado*

[Sair](#)

[Iniciar Instalação](#)

*Nós não tocamos em seus discos até você apertar 'Iniciar Instalação'.*


# Instalação do CentOS



CentOS


CONFIGURAÇÃO

INSTALAÇÃO DO CENTOS LINUX 7




[Ajuda!](#)


CONFIGURAÇÕES DE USUÁRIO



**SENHA RAIZ**  
*A senha root não foi determinada*




**CRIAÇÃO DE USUÁRIO**  
*Nenhum usuário será criado*

 Iniciando o processo de instalação do pacote

**CentOS Core SIG**  
Produces the CentOS Linux Distribution.  
[wiki.centos.org/SpecialInterestGroup](http://wiki.centos.org/SpecialInterestGroup)




 Por favor complete os itens marcados com esse ícone antes de seguir para o próximo passo.

# Instalação do CentOS

**SENHA ROOT**

Finalizado

INSTALAÇÃO DO CENTOS LINUX 7

 br

Ajuda!

 A senha que você forneceu é fraca. Você precisará pressionar Finalizado duas vezes para confirmar.



# Instalação do CentOS



## CONFIGURAÇÃO

INSTALAÇÃO DO CENTOS LINUX 7

 **br**

Ajuda!

## CONFIGURAÇÕES DE USUÁRIO



SENHA RAIZ

*Senha de root está definida*



CRIAÇÃO DE USUÁRIO

*Nenhum usuário será criado*

Completo!

CentOS Linux foi instalado com sucesso e está pronto para ser usado!

Reinicie para começar a usá-lo!

Reinicializar

 O uso deste produto está sujeito ao acordo de licença encontrado no `/usr/share/centos-release/EULA`

```
CentOS Linux 7 (Core)  
Kernel 3.10.0-514.el7.x86_64 on an x86_64  
  
localhost login: root  
Password:  
[root@localhost ~]# _
```

```
CentOS Linux 7 (Core)  
Kernel 3.10.0-514.el7.x86_64 on an x86_64  
  
localhost login: root  
Password:  
[root@localhost ~]# cd /tmp  
[root@localhost tmp]# _
```

```
CentOS Linux 7 (Core)
Kernel 3.10.0-514.el7.x86_64 on an x86_64

localhost login: root
Password:
Last login: Tue Feb  7 11:26:36 on tty1
[root@localhost ~]# cd /tmp
[root@localhost tmp]# yum install wget
Plugins carregados: fastestmirror
base                                     | 3.6 kB      00:00
extras                                 | 3.4 kB      00:00
updates                               | 3.4 kB      00:00
(1/4): extras/7/x86_64/primary_db     | 121 kB      00:00
(2/4): base/7/x86_64/group_gz         | 155 kB      00:00
(3/4): updates/7/x86_64/primary_db    | 2.2 MB      00:00
```

```
[root@localhost tmp]# wget http://assets.nagios.com/downloads/nagiosxi/xi-latest
.tar.gz
--2017-02-07 11:36:26--  http://assets.nagios.com/downloads/nagiosxi/xi-latest.t
ar.gz
Resolvendo assets.nagios.com (assets.nagios.com)... _
```

```
[root@localhost tmp]#  
[root@localhost tmp]#  
[root@localhost tmp]#  
[root@localhost tmp]#  
[root@localhost tmp]# tar xzf xi-latest.tar.gz
```

```
[root@localhost tmp]#  
[root@localhost tmp]#  
[root@localhost tmp]#  
[root@localhost tmp]#  
[root@localhost tmp]#  
[root@localhost tmp]#  
[root@localhost tmp]#  
[root@localhost tmp]#  
[root@localhost tmp]#  
[root@localhost tmp]# tar xzf xi-latest.tar.gz  
[root@localhost tmp]# ls  
ks-script-gF7Qen nagiosxi xi-latest.tar.gz yum.log  
[root@localhost tmp]# cd /tmp/nagiosxi  
[root@localhost nagiosxi]# ./fullinstall  
=====  
Nagios XI Full Installer  
=====
```

This script will do a complete install of Nagios XI by executing all necessary sub-scripts.

IMPORTANT: This script should only be used on a 'clean' install of CentOS or RedHat. Do NOT use this on a system that has been tasked with other purposes or has an existing install of Nagios Core. To create such a clean install you should have selected ONLY the 'Base' package in the OS installer.

Do you want to continue? [Y/n] \_

Após a instalação estar completa, será possível acessar a partir de outro computador utilizando um navegador, como podemos ver na tela a seguir. Note que, com estamos utilizando o modo *bridge* do VirtualBox, o endereço IP do servidor pertence a rede local.



## Nagios<sup>®</sup> XI

### Welcome

Click the link below to get started using Nagios XI.

[Access Nagios XI](#)

Check for tutorials and updates by visiting the Nagios Library at [library.nagios.com](http://library.nagios.com).

Problems, comments, etc, should be directed to our support forum at [support.nagios.com/forum/](http://support.nagios.com/forum/).

## Nagios XI Installer

Welcome to the Nagios XI installation. Just answer a few simple questions and you'll be ready to go.

### General Program Settings

Program URL:	<input type="text" value="http://192.168.2.173/nagiosxi/"/>
Administrator Name:	<input type="text" value="Nagios Administrator"/>
Administrator Email Address:	<input type="text" value="root@localhost"/>
Administrator Username:	<input type="text" value="nagiosadmin"/>
Administrator Password:	<input type="password" value="IjIQ!FncF3RDqNOTv^TS"/>

### Timezone Settings

Timezone:	<input type="text" value="(UTC+00:00) UTC"/>
-----------	--

Install >

## Nagios XI Installer

Welcome to the Nagios XI installation. Just answer a few simple questions and you'll be ready to go.

### General Program Settings

Program URL:	<input type="text" value="http://192.168.2.173/nagiosxi/"/>
Administrator Name:	<input type="text" value="Nagios Administrator"/>
Administrator Email Address:	<input type="text" value="root@localhost"/>
Administrator Username:	<input type="text" value="nagiosadmin"/>
Administrator Password:	<input type="password" value="senai132"/>

### Timezone Settings

Timezone:	<input type="text" value="(UTC+00:00) UTC"/>
-----------	--

Install >

## Installation Complete

Congratulations! You have successfully installed Nagios XI.

You may now login to Nagios XI using the following credentials:

Username: **nagiosadmin**

Password: **senai132**

Login to Nagios XI

## Login

nagiosadmin

●●●●●●●●

Login

[Forgot your password?](#)



Nagios XI is an enterprise-class monitoring and alerting solution that provides organizations with extended insight of their IT infrastructure before problems affect critical business processes. For more information on Nagios XI, visit the [Nagios XI product page](#).

Learn about Nagios [training](#) and [certification](#).

Want to learn about how other experts are utilizing Nagios? Don't miss your chance to attend the next **Nagios World Conference**.

Have a question or technical problem? Contact us today:

← → ↻

192.168.2.173/nagiosxi/login.php?showlicense

🔑 📄 ☆ ⋮

📄 Apps

📄 Getting Started

📄 Importado do Firefox

**Nagios XI**

Home Views Dashboards Reports Configure Tools Help Admin

🔍 👤 nagiosadmin ⌂ Logout ☰

Notice: This trial copy of Nagios XI will expire in 60 days. [Purchase a License Now](#) or [Enter your license key](#). ✕

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☒ I have read, understood, and agree to be bound by the terms of the license above.

Submit

← → ↻ ⓘ 192.168.2.173/nagiosxi/index.php ⓘ ☆ ⋮

📱 Apps 📄 Getting Started 📁 Importado do Firefox

## Nagios XI

Home Views Dashboards Reports Configure Tools Help Admin 🔍 ✅ 👤 nagiosadmin ⌚ Logout ☰

Notice: This trial copy of Nagios XI will expire in 60 days. [Purchase a License Now](#) or [Enter your license key](#). ✕

▼ Quick View

Home Dashboard

Tactical Overview

Birdseye

Operations Center

Operations Screen

Open Service Problems

Open Host Problems

All Service Problems

All Host Problems

🚧 Network Outages

▼ Details

Service Detail

Host Detail

Hostgroup Summary

Hostgroup Overview

Hostgroup Grid

Servicegroup Summary

Servicegroup Overview

Servicegroup Grid

📱 BPI

📊 Metrics

▼ Graphs

📈 Performance Graphs

🗺️ Graph Explorer

▼ Maps

### Home Dashboard ⚙️

🔊

#### Getting Started Guide

**Common Tasks:**

- [Change your account settings](#)  
Change your account password and general preferences.
- [Change your notifications settings](#)  
Change how and when you receive alert notifications.
- [Configure your monitoring setup](#)  
Add or modify items to be monitored with easy-to-use wizards.

**Getting Started:**

- [Learn about XI](#)  
Learn more about XI and its capabilities.
- [Signup for XI news](#)  
Stay informed on the latest updates and happenings for XI.

🔊

#### Host Status Summary

Up	Down	Unreachable	Pending
1	0	0	0
Unhandled		Problems	All
0		0	1

Last Updated: 2017-02-07 15:39:29

🔊

#### Service Status Summary

Ok	Warning	Unknown	Critical	Pending
12	0	0	0	0
Unhandled		Problems		All
0		0		12

Last Updated: 2017-02-07 15:39:29

🔊

#### Administrative Tasks

**Nagios XI 5.4.1** • [Check for Updates](#)

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Para os nossos testes utilizaremos uma rede interna do VirtualBox e não a rede local, para isso vamos fixar o endereço IP do servidor:

```
Running './Z-webroot' ...
RESULT=0

Nagios XI Installation Complete!
-----

You can access the Nagios XI web interface by visiting:
  http://192.168.2.173/nagiosxi/

[root@localhost nagiosxi]#
[root@localhost nagiosxi]# ip addr
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN qlen 1
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP
   qlen 1000
    link/ether 08:00:27:26:ca:99 brd ff:ff:ff:ff:ff:ff
    inet 192.168.2.173/16 brd 192.168.255.255 scope global dynamic enp0s3
        valid_lft 25137sec preferred_lft 25137sec
    inet6 fe80::a00:27ff:fe26:ca99/64 scope link
        valid_lft forever preferred_lft forever
[root@localhost nagiosxi]# _
```



```
Running './Z-webroot' ...  
RESULT=0
```

```
Nagios XI Installation Complete!  
-----
```

```
You can access the Nagios XI web interface by visiting:  
http://192.168.2.173/nagiosxi/
```

```
[root@localhost nagiosxi]#  
[root@localhost nagiosxi]# ip addr  
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN qlen 1  
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00  
    inet 127.0.0.1/8 scope host lo  
        valid_lft forever preferred_lft forever  
    inet6 ::1/128 scope host  
        valid_lft forever preferred_lft forever  
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP  
    qlen 1000  
    link/ether 08:00:27:26:ca:99 brd ff:ff:ff:ff:ff:ff  
    inet 192.168.2.173/16 brd 192.168.255.255 scope global dynamic enp0s3  
        valid_lft 25137sec preferred_lft 25137sec  
    inet6 fe80::a00:27ff:fe26:ca99/64 scope link  
        valid_lft forever preferred_lft forever  
[root@localhost nagiosxi]# vi /etc/sysconfig/network-scripts/ifcfg-enp0s3_
```

```
TYPE=Ethernet  
NAME=enp0s3  
IPADDR=172.27.0.10  
NETMASK=255.255.255.0  
GATEWAY=172.27.0.1  
UUID=12766d8d-e5a6-4bde-b8f9-7a7df2666d8b  
DEVICE=enp0s3  
ONBOOT=yes  
ZONE=public
```



```
"/etc/sysconfig/network-scripts/ifcfg-enp0s3" 9L, 165C written
[root@localhost nagiosxi]# service network restart
Restarting network (via systemctl): [ OK ]
[root@localhost nagiosxi]# ip addr
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN qlen 1
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP
   qlen 1000
    link/ether 08:00:27:26:ca:99 brd ff:ff:ff:ff:ff:ff
    inet 172.27.0.10/24 brd 172.27.0.255 scope global enp0s3
        valid_lft forever preferred_lft forever
    inet6 fe80::a00:27ff:fe26:ca99/64 scope link
        valid_lft forever preferred_lft forever
[root@localhost nagiosxi]# _
```