

WINDOWS SERVER INSTANCIADO NA AWS

Msc. Eduardo Verri

Esp. Marcio Santana

Mon. Matheus Matos

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Instanciando uma máquina Windows na AWS

[EC2](#) > [Instâncias](#) > Iniciar uma instância

Iniciar uma instância [Informações](#)

O Amazon EC2 permite criar máquinas virtuais, ou instâncias, que são executadas na Nuvem AWS. Comece a usar rapidamente seguindo as etapas simples abaixo.

Nome e tags [Informações](#)

Nome

ftpwindows

[Adicionar mais tags](#)

▼ Imagens de aplicação e de sistema operacional (imagem de máquina da Amazon) [Informações](#)

Uma AMI é um modelo que contém a configuração do software (sistema operacional, servidor de aplicações e aplicações) necessária para executar a instância. Pesquise ou navegue pelas AMIs se você não estiver vendo o que está buscando abaixo.

[Pesquise nosso catálogo completo, incluindo milhares de imagens de aplicações e sistemas operacionais](#)

Início rápido

Amazon
Linux



macOS



Ubuntu



Windows



Red Hat



SUSE L



[Procurar mais AMIs](#)

Incluindo AMIs da AWS, do Marketplace e da comunidade

Imagen de máquina da Amazon (AMI)

Microsoft Windows Server 2022 Base

ami-0be0e902919675894 (64 bits (x86))

Virtualização: hvm ENA habilitado: true Tipo de dispositivo raiz: ebs

Qualificado para o nível gratuito

▼ Tipo de instância [Informações](#)

Tipo de instância

t2.medium

Família: t2 2 vCPU 4 GiB Memória Geração atual: true
Sob demanda Linux base definição de preço: 0.0464 USD por hora
Sob demanda RHEL base definição de preço: 0.1064 USD por hora
Sob demanda Windows base definição de preço: 0.0644 USD por hora
Sob demanda SUSE base definição de preço: 0.1464 USD por hora

Todas as gerações

[Comparar tipos de instância](#)

Custos adicionais aplicáveis a AMIs com software pré-instalado

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▼ Par de chaves (login) Informações

Você pode usar um par de chaves para se conectar com segurança à sua instância. Certifique-se de ter acesso ao par de chaves selecionado antes de executar a instância.

Nome do par de chaves - *obrigatório*



[Criar novo par de chaves](#)

Para instâncias do Windows, use um par de chaves para descriptografar a senha de administrador e, em seguida, use a senha descriptografada para se conectar à sua instância.

Criar par de chaves



1

Nome do par de chaves

Os pares de chaves permitem que você se conecte à sua instância com segurança.

O nome pode incluir até 255 caracteres ASCII. Ele não pode incluir espaços iniciais ou finais.

Tipo de par de chaves

RSA

Par de chaves públicas e privadas criptografadas por RSA

ED25519

Par de chaves ED25519 públicas e privadas criptografadas (não compatível com instâncias do Windows)

Formato de arquivo de chave privada

.pem

Para uso com OpenSSH

.ppk

Para uso com PuTTY

2

[Criar par de chaves](#)

3

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▼ Configurações de rede [Informações](#)

[Editar](#)

Rede [Informações](#)

vpc-08de1e448b3e4ace1

Sub-rede [Informações](#)

Sem preferência (sub-rede padrão em qualquer zona de disponibilidade)

Atribuir IP público automaticamente [Informações](#)

Habilitar

Firewall (grupos de segurança) [Informações](#)

Um grupo de segurança é um conjunto de regras de firewall que controlam o tráfego para sua instância. Adicione regras para permitir que o tráfego específico alcance sua instância.

Criar grupo de segurança

Selecionar grupo de segurança existente

Criaremos um novo grupo de segurança chamado "launch-wizard-10" com as seguintes regras:

Permitir tráfego RDP de

Ajuda você a se conectar à sua instância

Qualquer lugar

▼

0.0.0.0/0

Permitir tráfego HTTPS da Internet

Para configurar um endpoint, por exemplo, ao criar um servidor Web

Permitir tráfego HTTP da Internet

Para configurar um endpoint, por exemplo, ao criar um servidor Web

▼ Configurar armazenamento [Informações](#)

[Avançado](#)

1x GiB Volume raiz (Não criptografado)

[Adicionar novo volume](#)

A AMI selecionada contém mais volumes de armazenamento de instâncias do que a instância permite. Somente os primeiros volumes de armazenamento de 0 instâncias da AMI poderão ser acessados pela instância

0 x Sistemas de arquivos

[Editar](#)

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▼ Resumo

Número de instâncias [Informações](#)
1

Imagen do software (AMI)
Microsoft Windows Server 2022 ...[Ler mais](#)
ami-0be0e902919675894

Tipo de servidor virtual (tipo de instância)
t2.medium

Firewall (grupo de segurança)
Novo grupo de segurança

Armazenamento (volumes)
1 volume(s) - 30 GiB

[Cancelar](#) [Executar instância](#) [Revisar comandos](#)

Serviços [Alt+S]

Norte da Virgínia v vocabs/user2799780=Testar_aluno @ 4088-1427-6987 ▾

EC2

Painel EC2 X

Visualização Global do EC2

Eventos

Instâncias (1) Informações

Localizar Instance por atributo ou tag (case-sensitive)

running X Limpar filtros

Name	ID de instância	Estado da inst...	Tipo de inst...	Verificação de s...	Status do al...	Zona de dispon...
ftpwindows	i-08de88980bfe3f2b0	Executando	t2.medium	Inicializando	Sem alarmes	us-east-1d

Selecionar uma instância

Atribuindo IP Elástico para a instância

O intuito aqui é manter o IP fixo da instância. Facilita no gerenciamento e acesso.

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The screenshot shows the AWS EC2 console interface. The left sidebar has a tree view:

- EC2
- ▼ Imagens
 - AMIs
 - Catálogo de AMIs
- ▼ Elastic Block Store
 - Volumes
 - Snapshots
 - Lifecycle Manager
- ▼ Rede e segurança
 - Security groups
 - IPs elásticos** (highlighted with a red arrow)
 - Placement groups
 - Pares de chaves
 - Interfaces de rede

The main content area shows the "Endereços IP elásticos" (Elastic IPs) page. A red arrow points from the "IPs elásticos" menu item to this page. The page includes a search bar, filters, and a table header with columns: Name, Endereço IPv4 aloc..., Tipo, ID da alocação, Registro de DNS reverso. A yellow button labeled "Alocar endereço IP elástico" is visible on the right.

A second red arrow points from the "Alocar endereço IP elástico" button to the "Alocar endereço IP elástico" dialog box, which is overlaid on the main page.

Alocar endereço IP elástico Informações

Configurações de endereço IP elástico Informações

Grupo de Borda de Rede Informações

Q us-east-1 X

Conjunto de endereços IPv4 públicos

Conjunto de endereços IPv4 da Amazon

Endereço IPv4 público que você traz para sua conta da AWS com o BYOIP. (opção desativada porque nenhum conjunto foi encontrado) [Saiba mais](#)

Conjunto de endereços IPv4 de propriedade do cliente criado em sua rede on-premises para uso com um Outpost. (opção desabilitada porque nenhum grupo pertencente ao cliente foi encontrado) [Saiba mais](#)

Endereços IP estáticos globais

O AWS Global Accelerator pode fornecer endereços IP estáticos globais anunciados em todo o mundo usando anycast de pontos de presença da AWS. Isso pode ajudar a melhorar a disponibilidade e a latência do tráfego de usuários usando a rede global da Amazon. [Saiba mais](#)

[Criar acelerador](#)

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Tags opcional

Uma tag é um rótulo que você atribui a um recurso da AWS. Cada tag consiste em uma chave e um valor opcional. É possível usar as tags para pesquisar e filtrar seus recursos ou para controlar seus custos da AWS.

Nenhuma tag associada ao recurso.

Adicionar nova tag

Você pode adicionar até mais 50 tags

Alocar

The screenshot shows the AWS EC2 console under the 'Endereços IP elásticos' (Elastic IPs) section. It lists two elastic IPs: one with address 3.233.25.172 and another with address 44.209.183.172. A large red arrow points from the top right towards the 'Alocar' (Allocate) button at the bottom right of the interface.

Name	Endereço IPv4 aloc...	Tipo	ID da alocação	Registro de DNS reverso
-	3.233.25.172	IP público	eipalloc-01e0d7f127820ed56	-
<input checked="" type="checkbox"/>	44.209.183.172	IP público	eipalloc-032d57062f104f563	-

This screenshot is similar to the previous one, but a context menu has been opened over the row containing the IP 44.209.183.172. The menu is titled 'Ações' and includes options like 'Visualizar detalhes', 'Liberar endereços IP elásticos', 'Associar endereço IP elástico', and 'Desassociar endereço IP elástico'. A large red arrow points from the top right towards the 'Associar endereço IP elástico' option in the menu.

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Endereço IP elástico: 44.209.183.172

Tipo de recurso

Selecione o tipo de recurso ao qual associar o endereço IP elástico.

Instância

Interface de rede

⚠ Se você associar um endereço IP elástico a uma instância que já tem um endereço IP elástico associado, o endereço IP elástico associado anteriormente será desassociado, mas o endereço ainda estará alocado à sua conta. [Saiba mais](#)

Se nenhum endereço IP privado for especificado, o endereço IP elástico será associado ao endereço IP privado primário.

Selecionar a
instância ftp

Instância

i-08de88980bfe3f2b0

Endereço IP privado

O endereço IP privado ao qual associar o endereço IP elástico.

172.31.91.4

Reassociação

Especifique se o endereço IP elástico pode ser reassociado a um recurso diferente se ele já estiver associado a um recurso.

Permitir que o endereço IP elástico seja reassociado

Associar

✓ Endereço IP elástico associado com êxito.

O endereço IP elástico 44.209.183.172 foi associado ao instância i-08de88980bfe3f2b0

Configuração das regras de entrada

The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with navigation links like 'Painel EC2', 'Visualização Global do EC2', 'Eventos', 'Instâncias', 'Tipos de instância', 'Modelos de execução', 'Solicitações spot', 'Savings Plans', 'Instâncias reservadas', 'Hosts dedicados', 'Reservas de capacidade', 'Imagens', 'AMIs', 'Catálogo de AMIs', and 'Elastic Block Store'. The main area displays a table of instances. One instance, 'ftpwindows' (ID: i-08de88980bfe3f2b0), is selected. A red arrow points to the 'Segurança' tab in the detailed view for this instance. The 'Segurança' tab is active, showing the security group 'sg-0740bbd90c1e1e533 (launch-wizard-10)' and its associated rules. Another red arrow points to the 'Regras de entrada' section under the security group details.

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ID da regra do grupo de segurança	Tipo Informações	Protocolo Informações	Intervalo de portas Informações	Origem Informações	Descrição - opcional Informações
sgr-068661c0b2d9ccc4b	TCP personalizado	TCP	20 - 21	Qualqu...	**Portas** 3389: rdp (RDP) 20-21: ftp (TCP)
sgr-0fd76d56c438dc892	RDП	TCP	3389	Persona...	1025-1029: IIS (TCP)
sgr-09cec6e229310e9b1	TCP personalizado	TCP	1025 - 1029	Persona...	80: NodeJS (HTTP)
sgr-0d94a22b7eadec0e6	HTTP	TCP	80	Persona...	



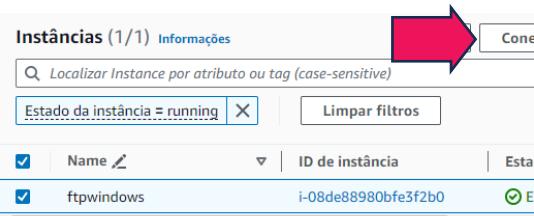
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Conectando na instância Windows



A screenshot of the AWS CloudWatch Metrics console. It shows a line graph for 'CPU Usage (%)' over a period from '1 hour ago' to 'now'. The graph has two data series: 'CPU Usage (%)' and 'CPU Usage (%) - Average'. The 'CPU Usage (%)' series is represented by a blue line with a light blue shaded area underneath, showing values between 0% and 10%. The 'CPU Usage (%) - Average' series is represented by a red line with a light red shaded area, showing a constant value of approximately 10%.

Instâncias (1/1) Informações

Conectar Estado da instância ▾ Ações ▾ Executar instâncias ▾

Localizar Instance por atributo ou tag (case-sensitive)

Estado da instância = running X Limpar filtros < 1 > ⚙

Name	ID de instância	Estado da inst...	Tipo de inst...	Verificação de s...	Status do al...	Zo...
ftpwindows	i-08de88980bfe3f2b0	Executando	t2.medium	2/2 verificações a	Sem alarmes	us-

Gerenciador de sessões Cliente RDP Console de série do EC2

ID de instância

Tipo de conexão

Conecte-se usando o cliente RDP
Faça download de um arquivo para usar com seu cliente RDP e recupere sua senha.

Conecte-se usando o Fleet Manager
Para se conectar à instância usando o Desktop Remoto do Fleet Manager, o SSM Agent deve estar instalado e em execução na instância. Para obter mais informações, consulte [Trabalhar com o SSM Agent](#)

Você pode se conectar à sua instância do Windows usando uma área de trabalho remota cliente de sua preferência e fazendo o download e executando o arquivo de atalho de RDP abaixo:

 Fazer download de arquivo de área de trabalho remota

Quando solicitado, conecte-se à sua instância usando os seguintes detalhes:

Public DNS <input type="text" value="ec2-44-209-183-172.compute-1.amazonaws.com"/>	Nome do usuário <input type="text" value="Administrator"/>
Senha <input type="button" value="Obter senha"/>	

 Se tiver ingresso sua instância em um diretório, você pode usar as credenciais do diretório para se conectar à sua instância.

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Obter senha do Windows [Informações](#)

Use sua chave privada para recuperar e descriptografar a senha inicial do administrador do Windows para essa instância.

ID de instância

[i-08de88980bfe3f2b0 \(ftpwindows\)](#)

Par de chaves associado a essa instância

[ftpconnection](#)

Chave privada

Carregue o arquivo da chave privada ou copie e cole o conteúdo no campo abaixo.

[Carregar arquivo da chave privada](#)

Conteúdo da chave privada: *opcional*

Conteúdo da chave privada

[Cancelar](#)

[Descriptografar senha](#)

Nome	Data de modificação	Tipo	Tamanho
chavesj2709.pem	27/09/2023 19:21	Arquivo PEM	2 KB
ftpconnection.pem	11/10/2023 12:36	Arquivo PEM	2 KB
lab02.pem	02/10/2023 11:05	Arquivo PEM	2 KB
lab02gui.pem	02/10/2023 18:55	Arquivo PEM	2 KB
lab02gui2adsb.pem	04/10/2023 18:31	Arquivo PEM	2 KB
lab012adsa.pem	10/10/2023 18:33	Arquivo PEM	2 KB
sisgui.pem	05/10/2023 13:30	Arquivo PEM	2 KB
testechavesso.pem	25/09/2023 19:52	Arquivo PEM	2 KB
windowskey.pem	28/09/2023 10:52	Arquivo PEM	2 KB

selection.pem

Arquivo PEM

[Abrir](#) [Cancelar](#)

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Obter senha do Windows Informações

Use sua chave privada para recuperar e descriptografar a senha inicial do administrador do Windows para essa instância.

ID de instância
 i-08de88980bfe3f2b0 (ftpwindows)

Par de chaves associado a essa instância
 ftpconnection

Chave privada
Carregue o arquivo da chave privada ou copie e cole o conteúdo no campo abaixo.

ftpconnection.pem
1.674KB

Conteúdo da chave privada: opcional

```
-----BEGIN RSA PRIVATE KEY-----  
MIIEowIBAAKCAQEAsCj7Rl2vVFQVuCKaX0lxbeHGPZkyWyyvpmCrt4m/mFvXL5QX  
NTzn2FbtJJB3/Z/SuuB0BaXPhH7jRmevj+s350bgbgAg6rwFUxMYJ2nVr/utedY3  
K9VGkB5Won3RU7Ib0cxNeHAD9swKH0XdhVoey808wp3Et+Xb7JBjL5ejNBLc4rJ1  
LNpxf5WZMPPr6TixFpJLbANCNdBTNMYx141aoM85OrPEnjRCHRnoFulm3NJv4sbJ+  
XZRtL1L5BK75pusIM3g7D0sbp7AexcvSJ/TXQvfptTfuywMzoU/REEc+rrupGBzoP  
x8jka+PwqPqs5JYA4Bp0LtuJzgXJRGxOJ82v5QIDAQABAoIBADykwNlhymPoz51  
YxFDSADD0kiRsxt1v+59vv97AyMPEuPSjj68jc+y9QYuWbBM8b11gVtkXIDtYY4e
```



Gerenciador de sessões | **Cliente RDP** | Console de série do EC2

ID de instância
 i-08de88980bfe3f2b0 (ftpwindows)

Tipo de conexão

Conecte-se usando o cliente RDP
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Você pode se conectar à sua instância do Windows usando uma área de trabalho remota cliente de sua preferência e fazendo o download e executando o arquivo de atalho de RDP abaixo:



Quando solicitado, conecte-se à sua instância usando os seguintes detalhes:

Public DNS
 ec2-44-209-183-172.compute-1.amazonaws.com

Nome do usuário
 Administrator

Senha
 F(k4qeTU7MGMYJJu\$Nup;YUWHX%0?h9Q

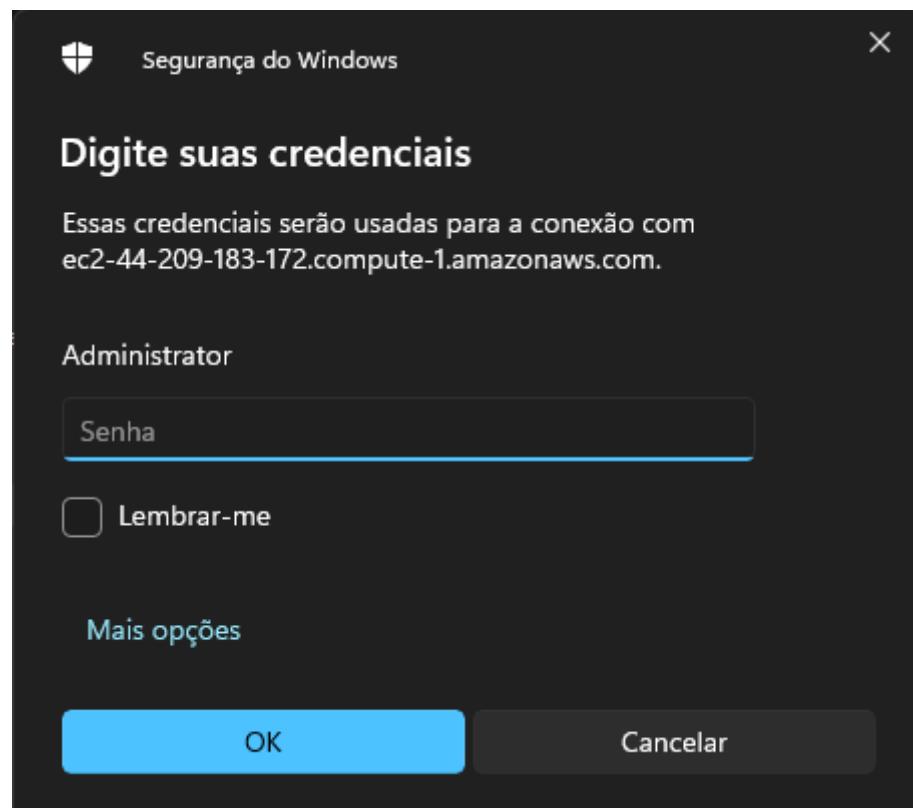
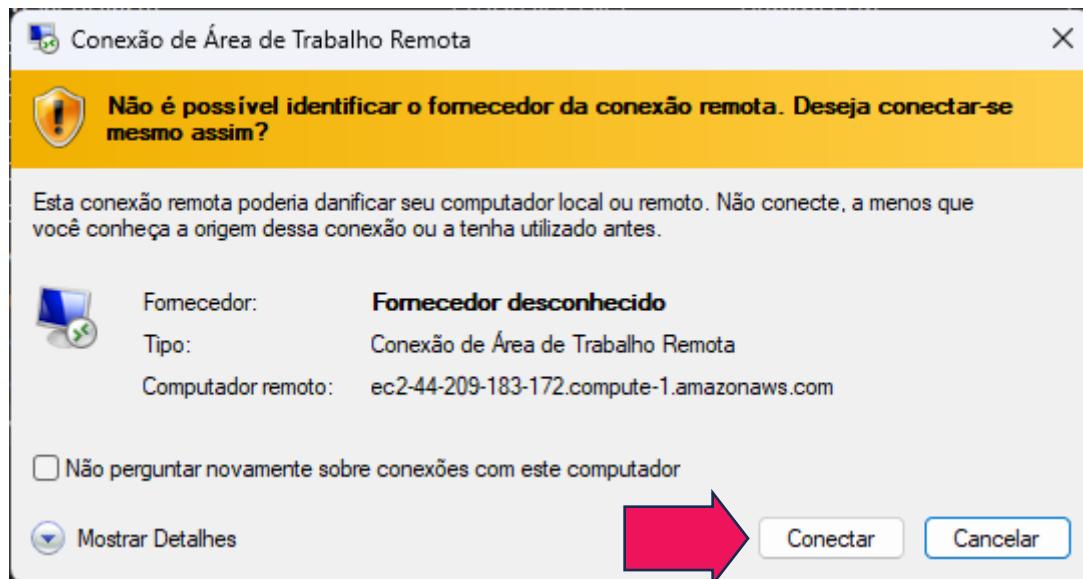
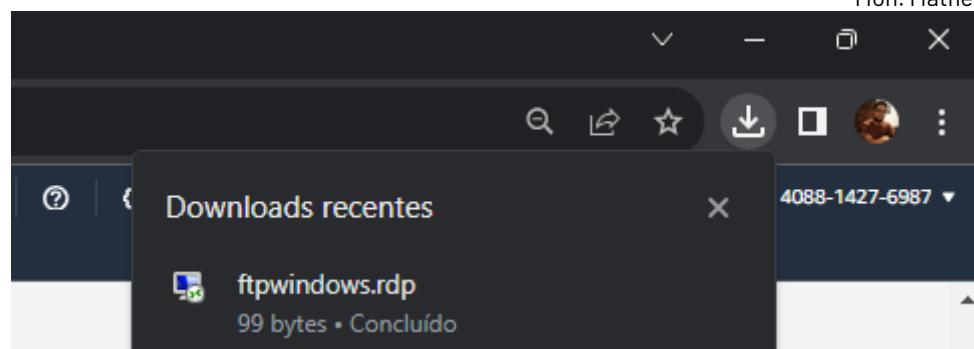
 Se tiver ingresso sua instância em um diretório, você pode usar as credenciais do diretório para se conectar à sua instância.

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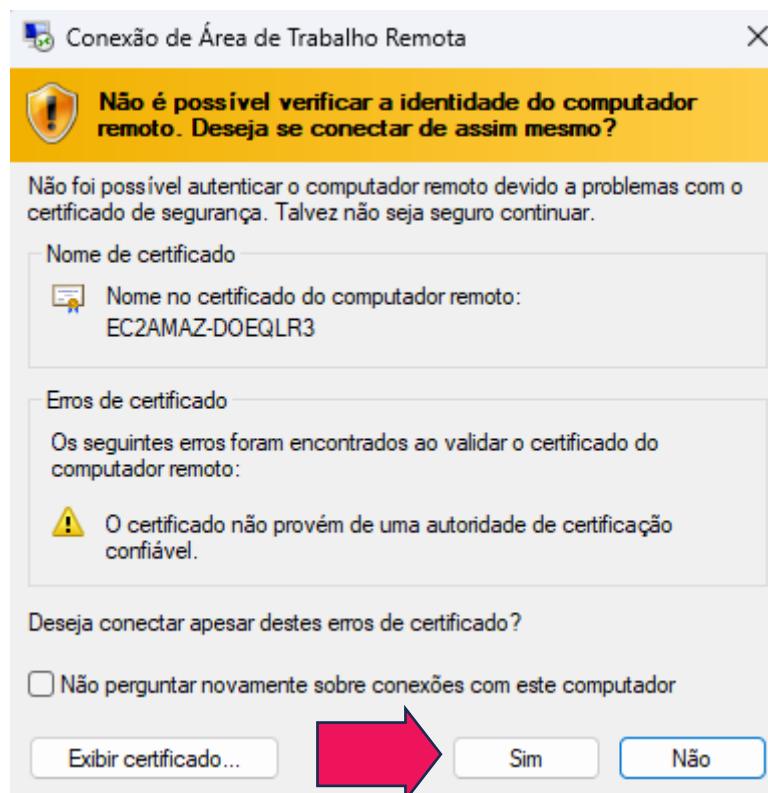
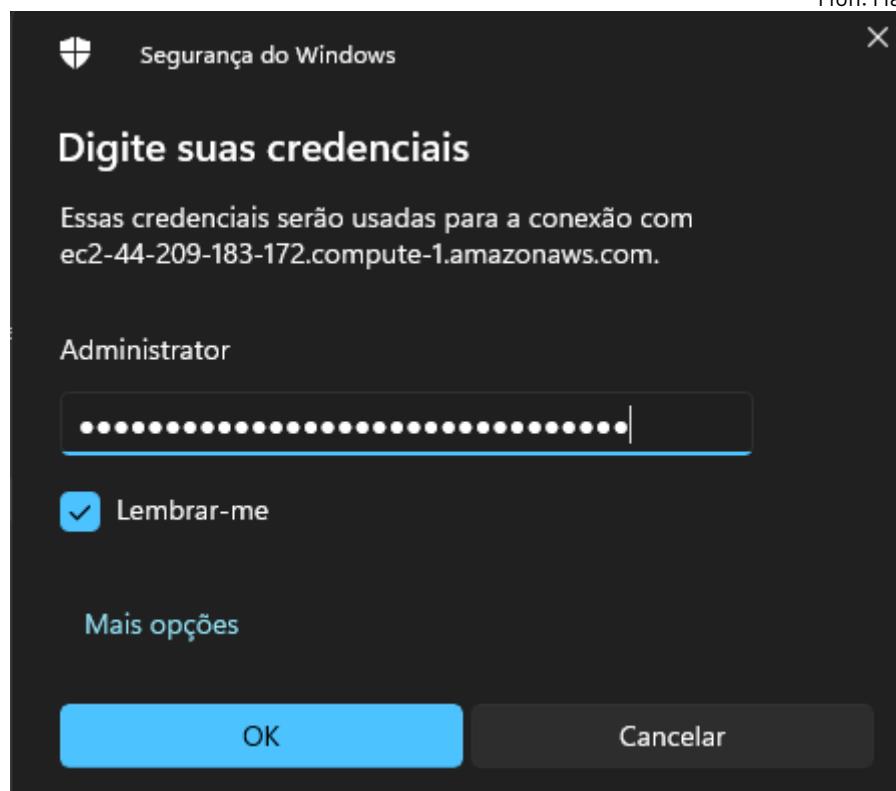


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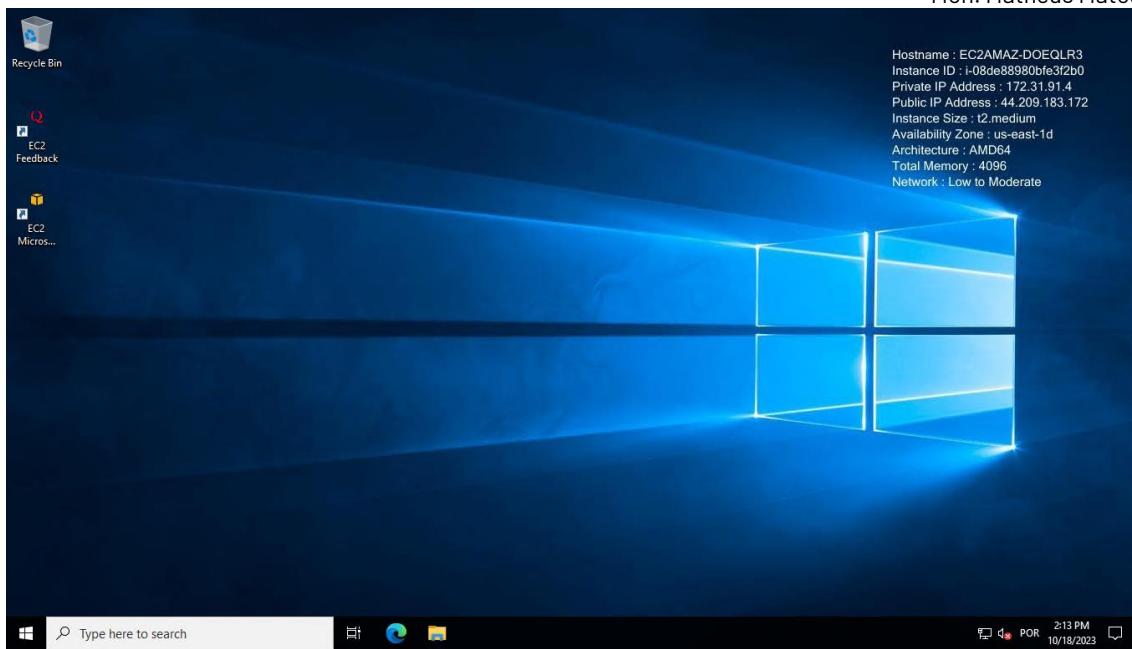


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Configurando o ambiente para a aplicação

Instalando o NodeJS via PowerShell

Crie um diretório para instalar as aplicações e acesse esse diretório

```
Administrator: Windows PowerShell
PS C:\Users\Administrator> cd .\Desktop\
PS C:\Users\Administrator\Desktop> mkdir ambiente

Directory: C:\Users\Administrator\Desktop

Mode                LastWriteTime         Length Name
----                -              -          -
d----- 10/9/2023  3:19 PM           0 ambiente

PS C:\Users\Administrator\Desktop> cd .\ambiente\
PS C:\Users\Administrator\Desktop\ambiente>
```

Execute o comando abaixo no PS:

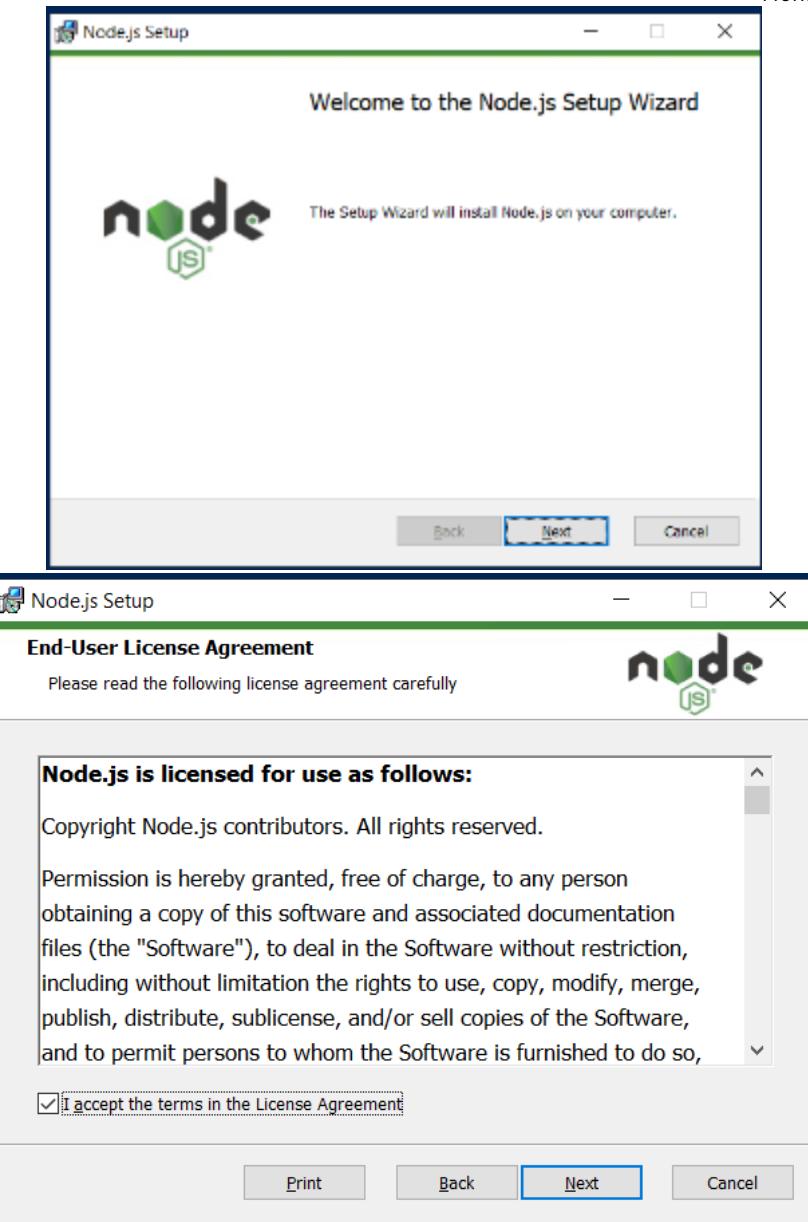
```
wget "https://nodejs.org/dist/v18.18.0/node-v18.18.0-x64.msi" -outfile "node-v18.18.0-x64.msi"
```

```
Administrator: Windows PowerShell
PS C:\Users\Administrator\Desktop\ambiente> wget https://nodejs.org/dist/v18.18.0/node-v18.18.0-x64.msi -outfile node-v18.18.0-x64.msi
Writing web request
Writing request stream... (Number of bytes written: 1292926)
```

```
Administrator: Windows PowerShell
PS C:\Users\Administrator\Desktop\ambiente> .\node-v18.18.0-x64.msi
```

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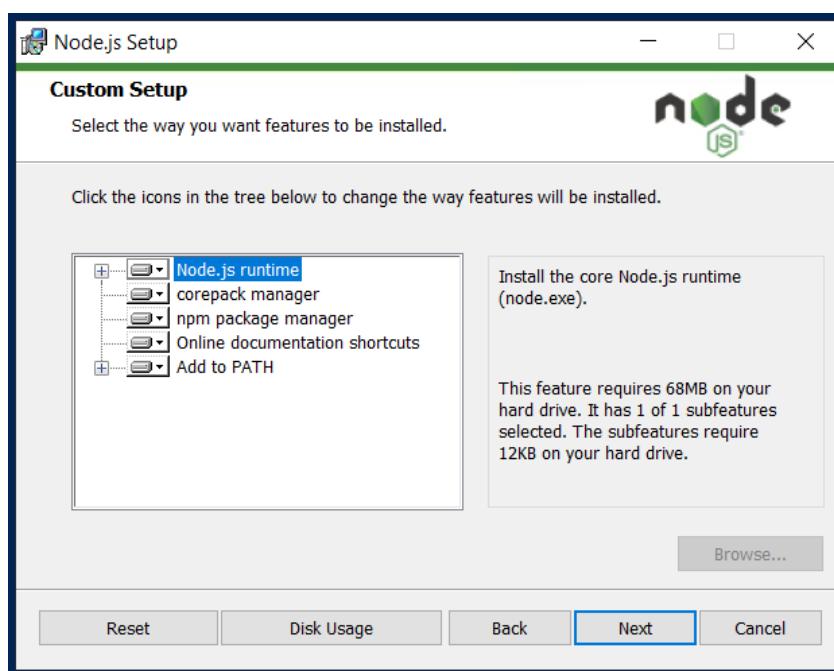
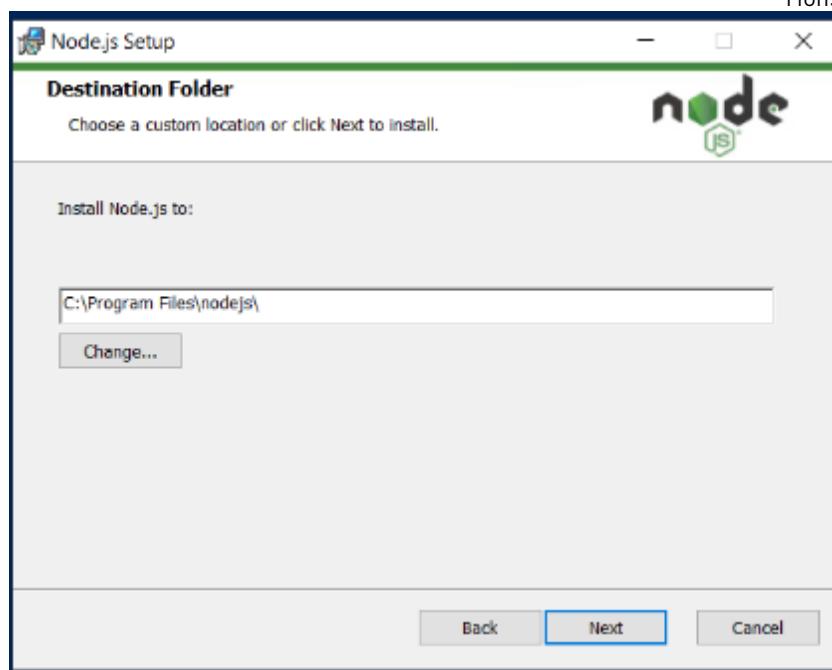


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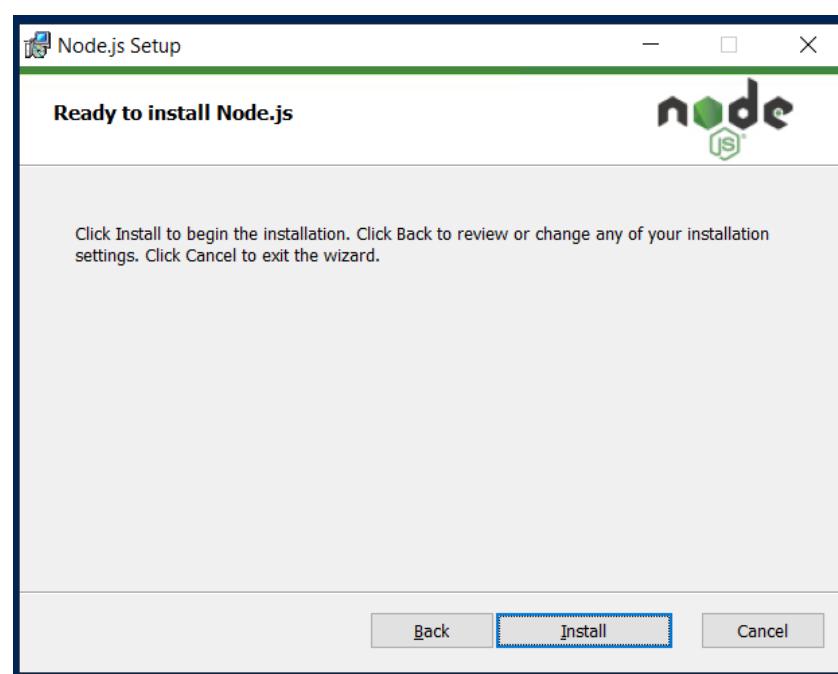
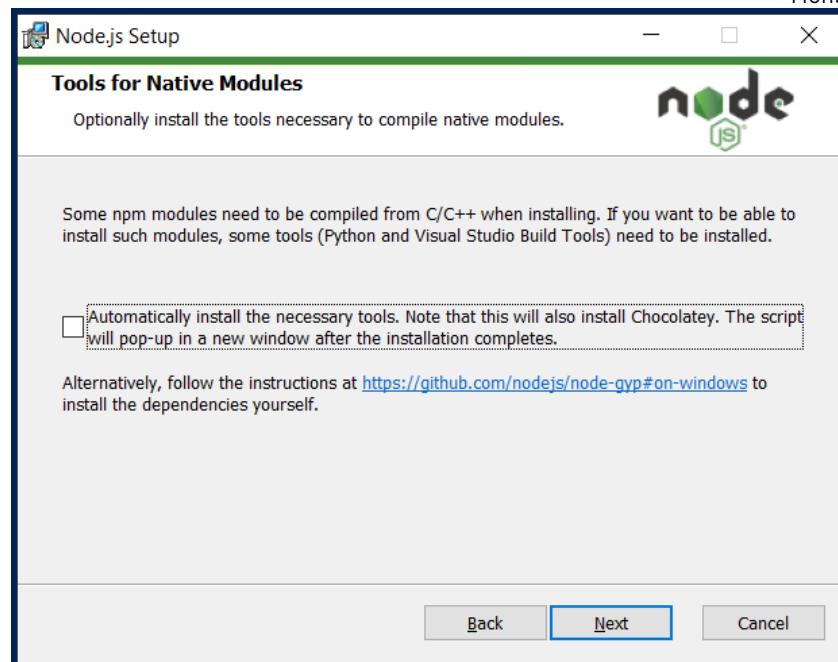


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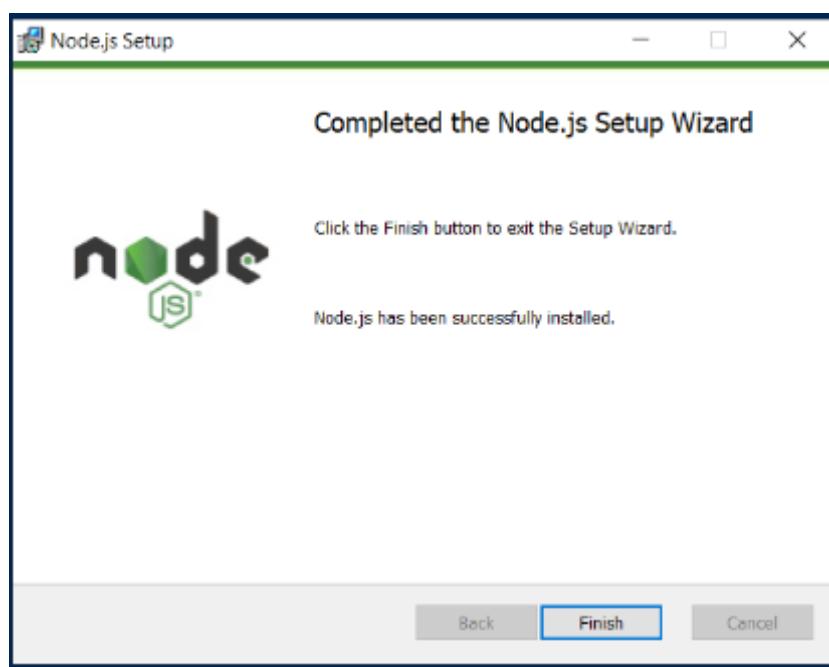
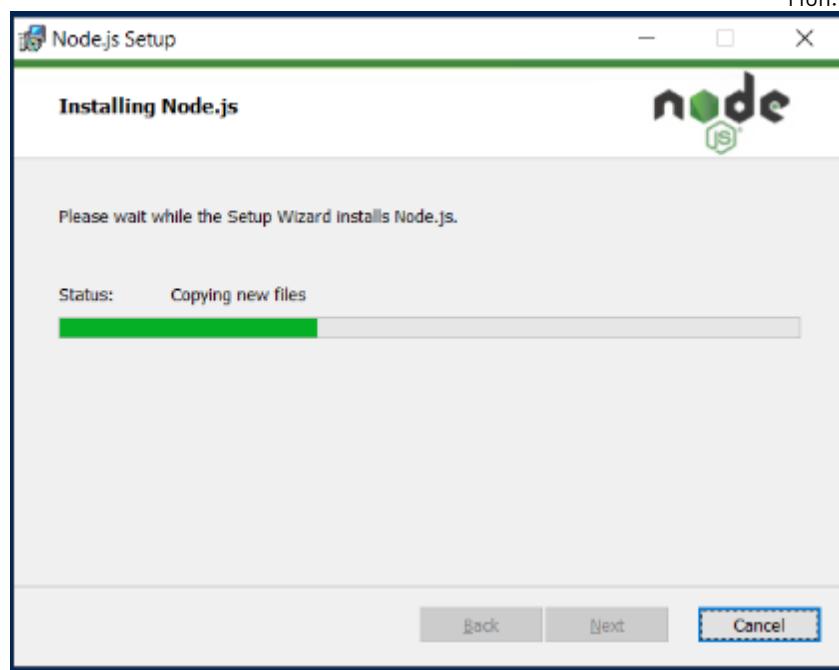


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```
Administrator: Windows PowerShell
PS C:\Users\Administrator> node -v
v18.18.0
PS C:\Users\Administrator> _
```

Instalando o Git Bash

Execute o seguinte comando no seu PS:

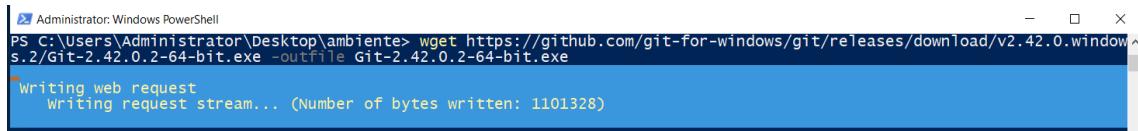
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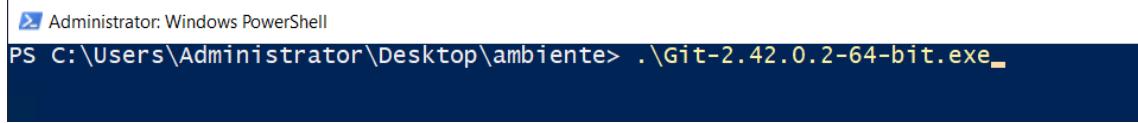
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Mon. Matheus Matos

```
wget "https://github.com/git-for-windows/git/releases/download/v2.42.0.windows.2/Git-2.42.0.2-64-bit.exe" -outfile "Git-2.42.0.2-64-bit.exe"
```



```
Administrator: Windows PowerShell
PS C:\Users\Administrator\Desktop\ambiente> wget https://github.com/git-for-windows/git/releases/download/v2.42.0.windows.2/Git-2.42.0.2-64-bit.exe -outfile Git-2.42.0.2-64-bit.exe
Writing web request
Writing request stream... (Number of bytes written: 1101328)
```



```
Administrator: Windows PowerShell
PS C:\Users\Administrator\Desktop\ambiente> .\Git-2.42.0.2-64-bit.exe
```

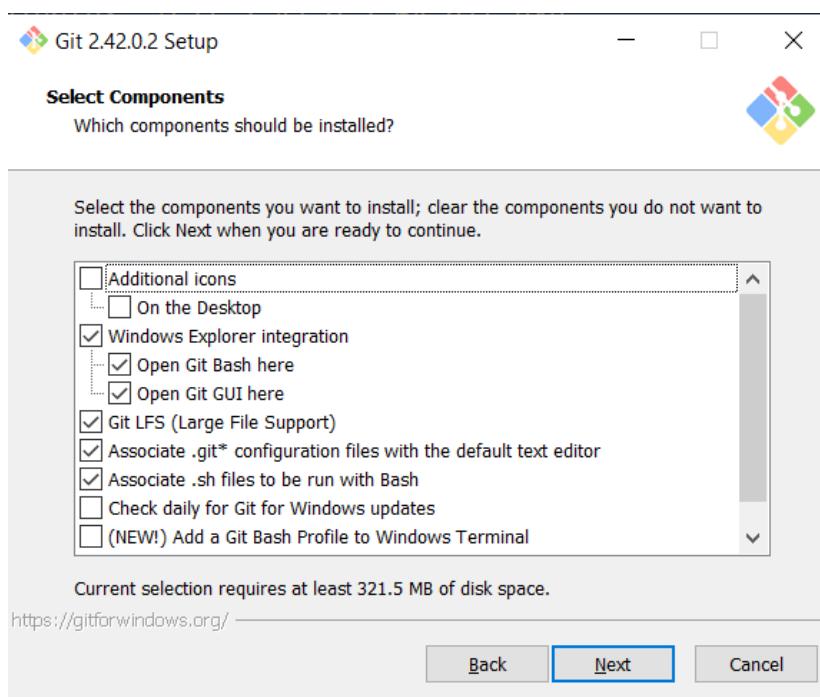
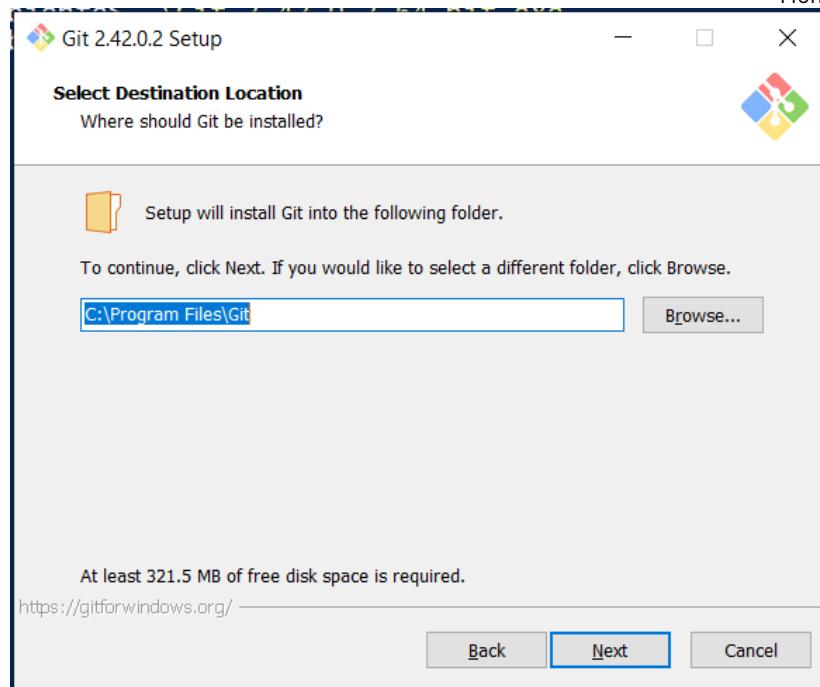


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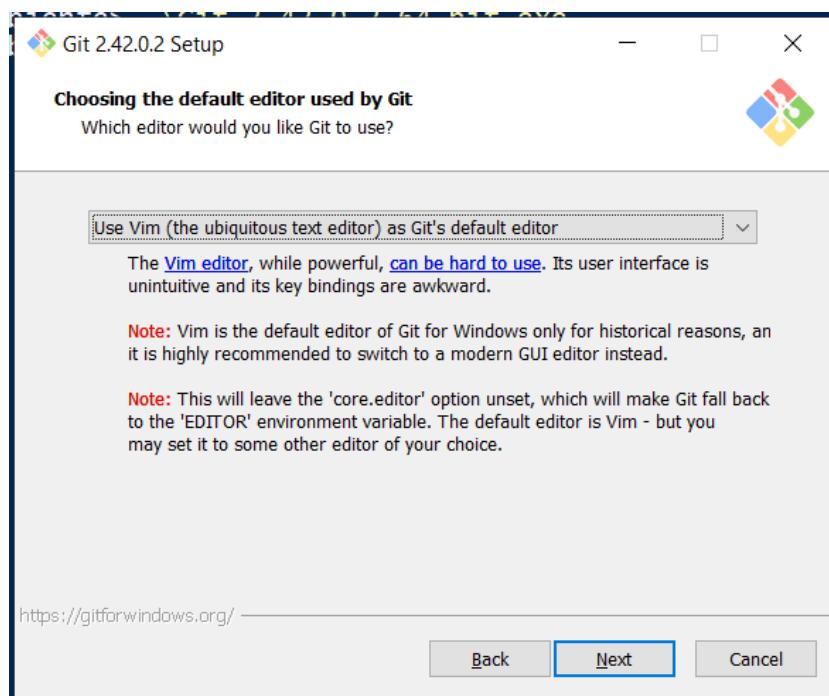
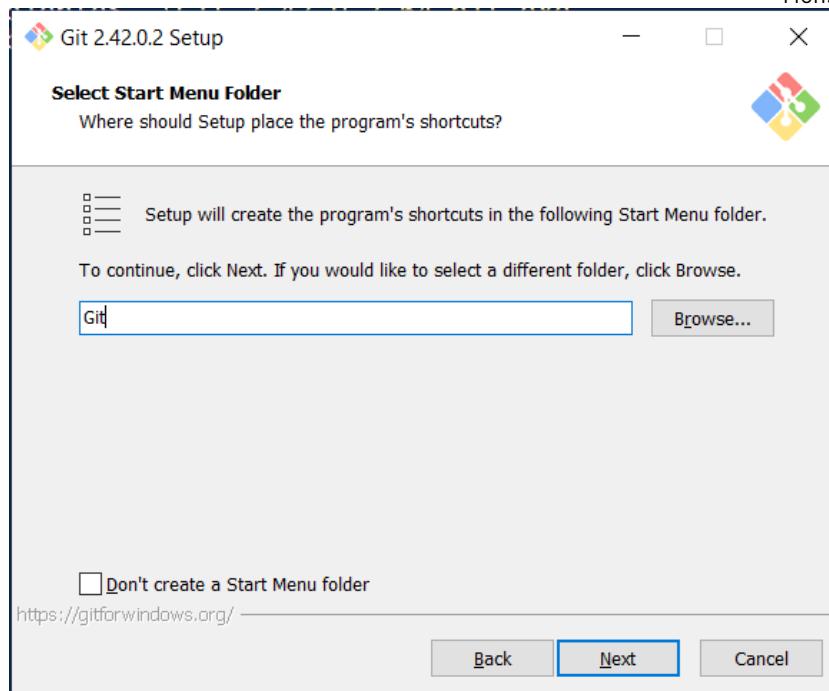


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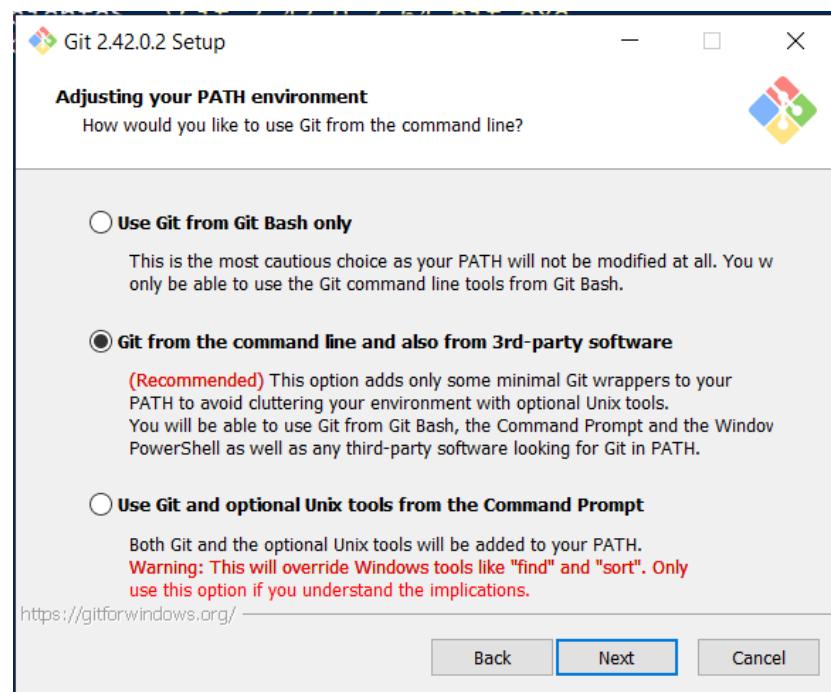
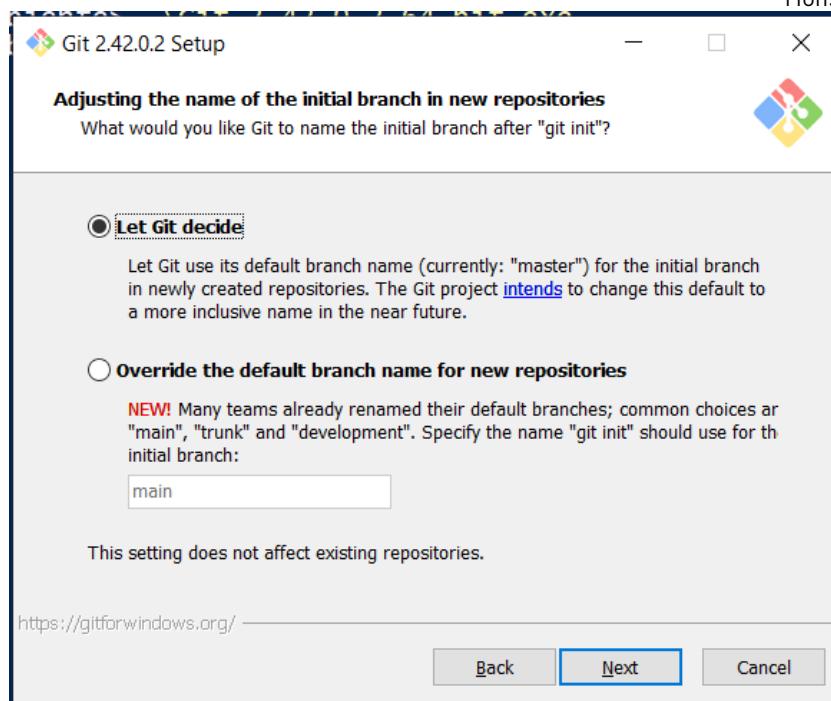


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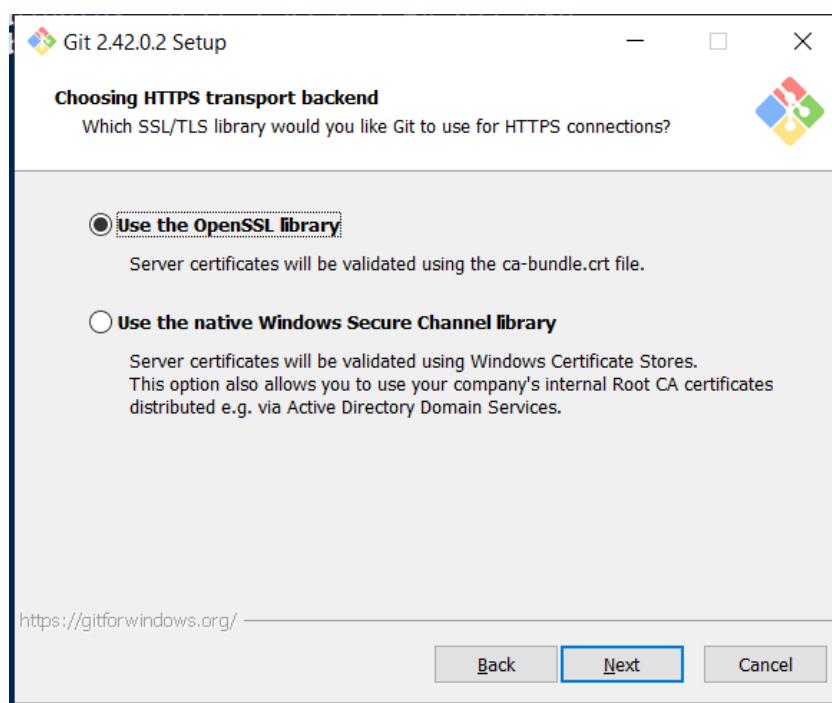
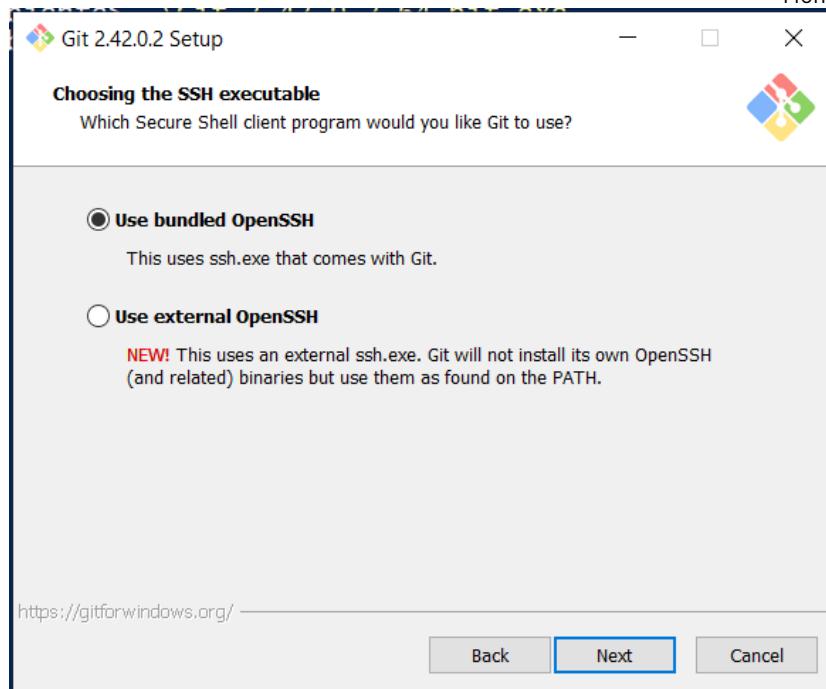


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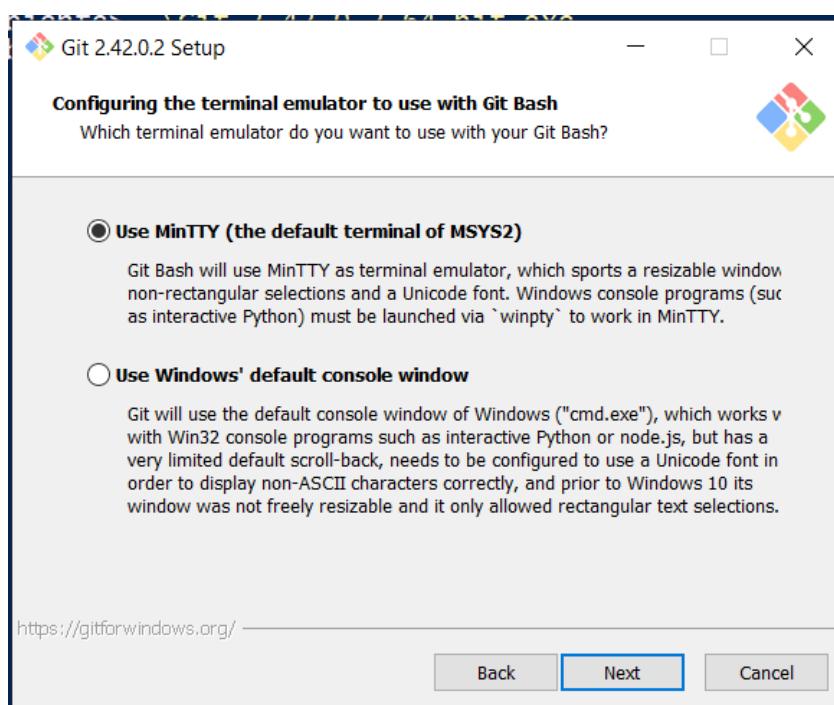
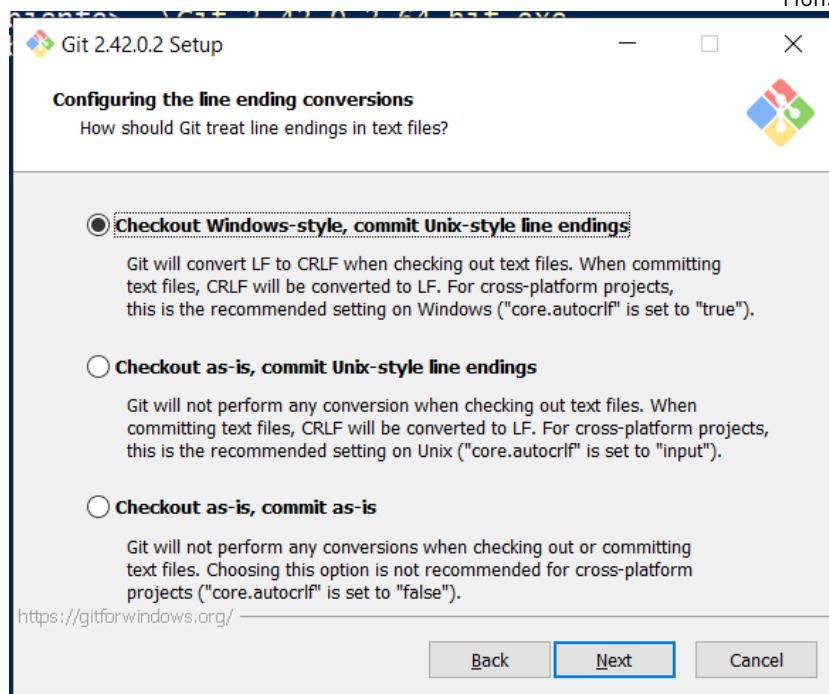


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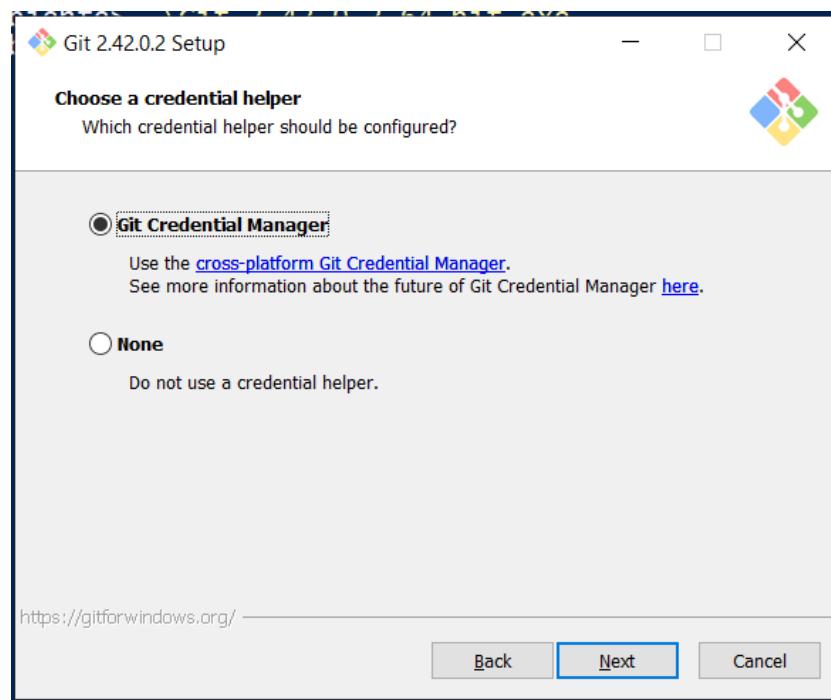
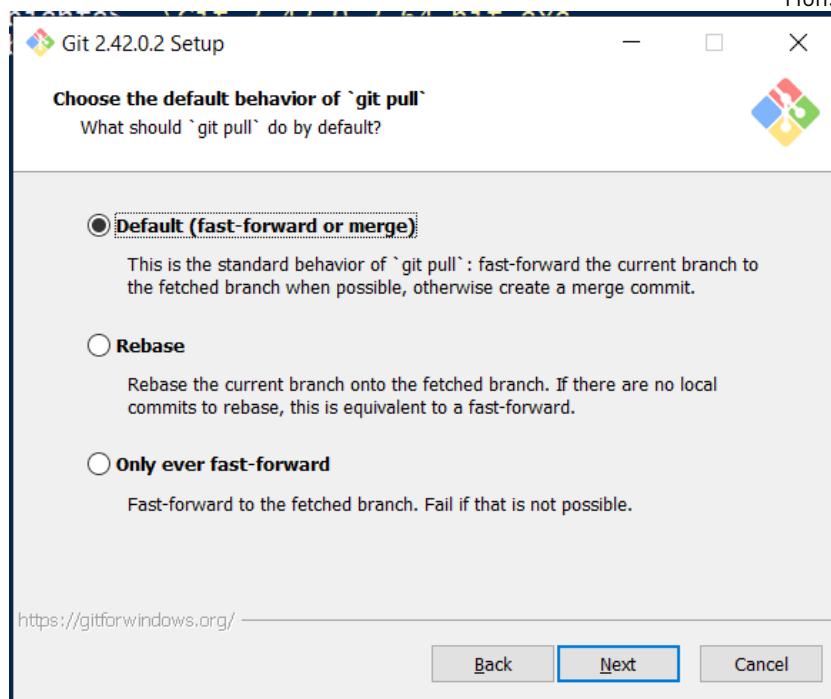


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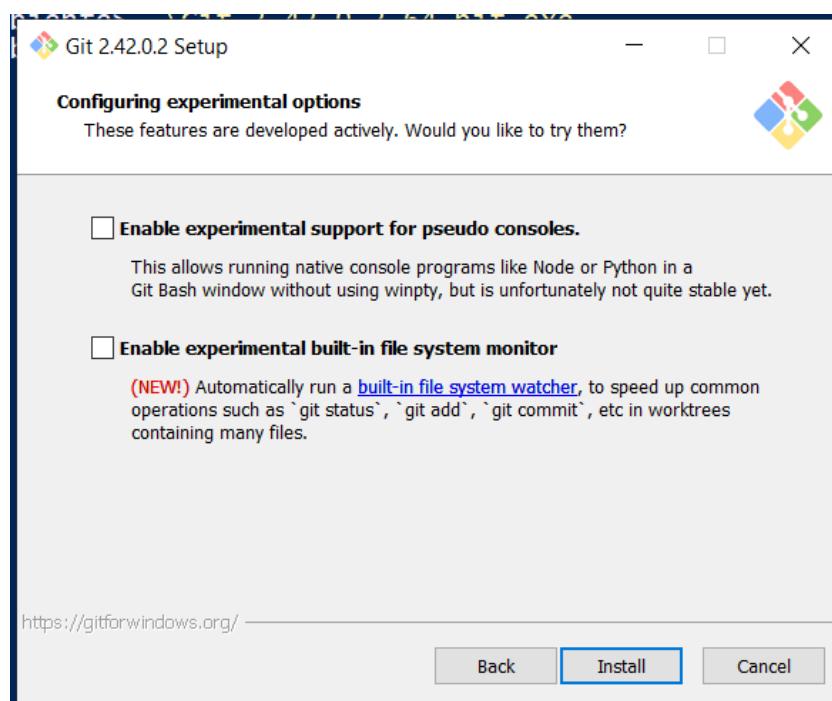
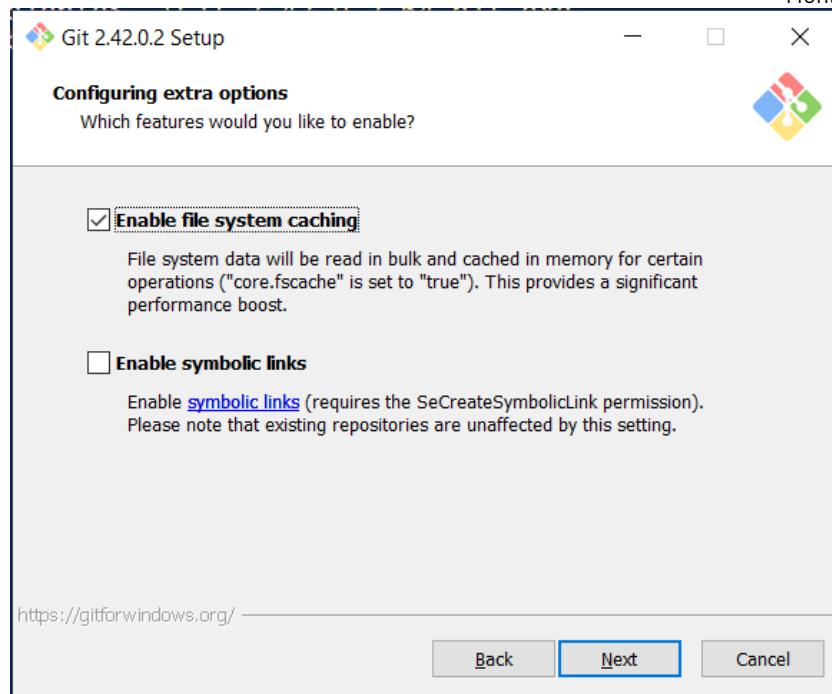


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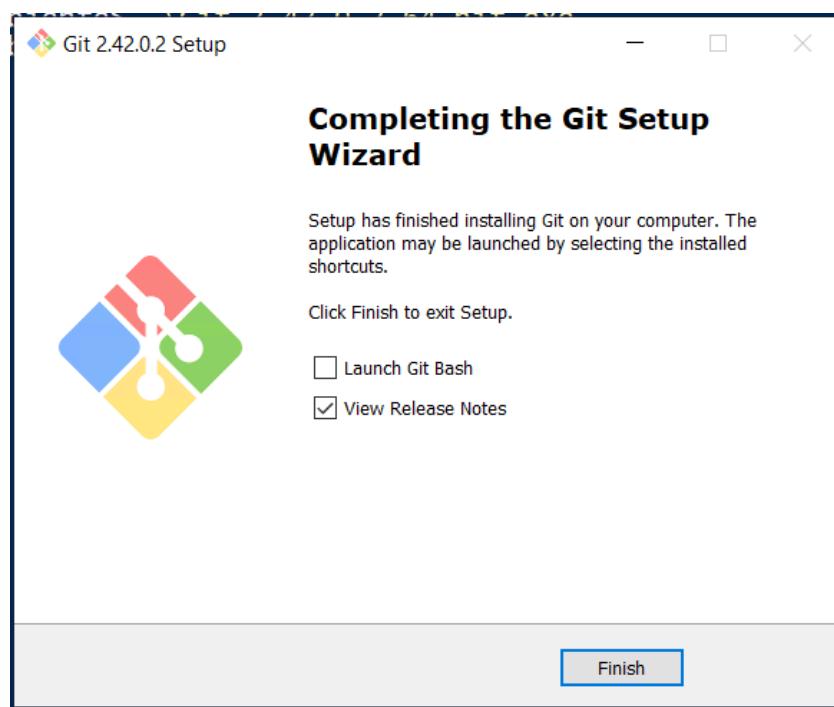
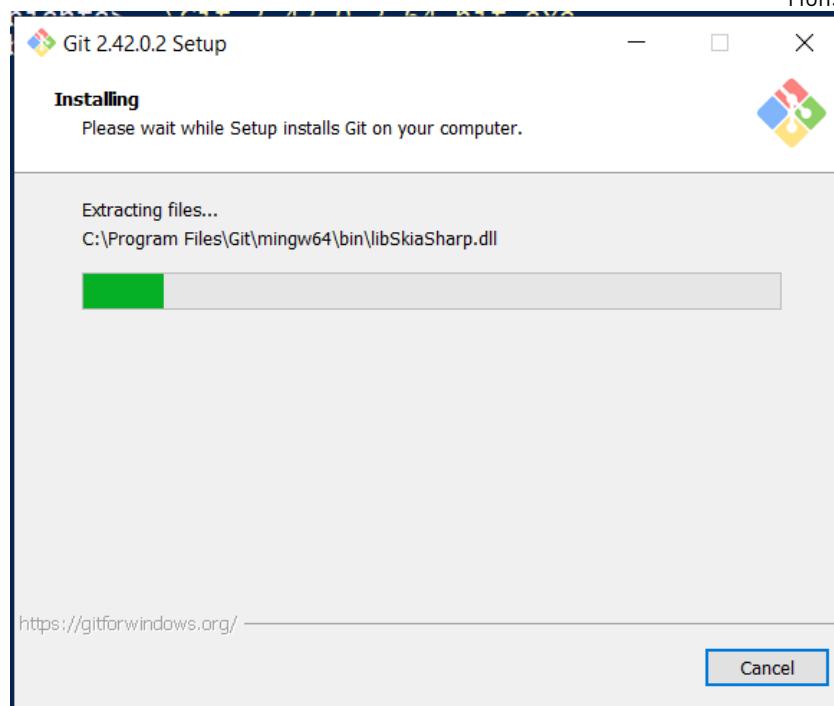


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```
Administrator: Windows PowerShell
PS C:\Users\Administrator> git -v
git version 2.42.0.windows.2
PS C:\Users\Administrator>
```

Configurando git local e Git Clone do repositório

Agora com o GIT Bash instalado e configurado no PATH do seu Windows Server, é possível realizar comandos git via PS ou Git Bash.

```
git config --global user.name "Nome Sobrenome"  
git config --global user.email seu_email@email.com
```

```
[Administrator: Windows PowerShell]  
PS C:\Users\Administrator> git config --global user.name "Matheus Matos"  
PS C:\Users\Administrator> git config --global user.email "matheus.matos@bandtec.com.br"  
PS C:\Users\Administrator> -
```

```
git clone https://github.com/BandTec/web-data-viz.git
```

```
[Administrator: Windows PowerShell]  
PS C:\Users\Administrator\Desktop\ambiente> git clone https://github.com/BandTec/web-data-viz.git  
Cloning into 'web-data-viz'...  
remote: Enumerating objects: 380, done.  
Receiving objects: 100% (380/380), 2.71 MiB | 38.05 MiB/s, done.  
Resolving deltas: 100% (188/188), done.  
remote: Counting objects: 100% (52/52), done.  
remote: Compressing objects: 100% (26/26), done.  
remote: Total 380 (delta 41), reused 26 (delta 26), pack-reused 328
```

```
[Administrator: Windows PowerShell]  
PS C:\Users\Administrator\Desktop\ambiente> cd ..\web-data-viz\site\  
PS C:\Users\Administrator\Desktop\ambiente\web-data-viz\site> ls  
  
Directory: C:\Users\Administrator\Desktop\ambiente\web-data-viz\site  
  
Mode LastWriteTime Length Name  
---- - - - -  
d---- 10/9/2023 8:30 PM public  
d---- 10/9/2023 8:30 PM src  
-a--- 10/9/2023 8:30 PM 1551 app.js  
-a--- 10/9/2023 8:30 PM 480 package.json  
  
PS C:\Users\Administrator\Desktop\ambiente\web-data-viz\site> -
```

```
[Administrator: Windows PowerShell]  
PS C:\Users\Administrator\Desktop\ambiente\web-data-viz\site> npm install  
[██████████] \ idealTree:mssql: timing Completed in 162ms
```

```
[Administrator: Windows PowerShell]  
PS C:\Users\Administrator\Desktop\ambiente\web-data-viz\site> npm install  
npm WARN  uuid@3.4.0: Please upgrade to version 7 or higher. Older versions may use Math.random() in certain  
circumstances, which is known to be problematic. See https://v8.dev/blog/math-random for details.  
added 247 packages, and audited 248 packages in 16s  
23 packages are looking for funding  
  run npm fund for details  
8 moderate severity vulnerabilities  
To address all issues, run:  
  npm audit fix  
Run `npm audit` for details.  
npm notice New major version of npm available! 9.8.1 -> 10.2.0  
npm notice Changelog: https://github.com/npm/cli/releases/tag/v10.2.0  
npm notice Run npm install -g npm@10.2.0 to update!  
npm notice
```

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Vamos alterar agora a porta de funcionamento do servidor node da aplicação (a mesma que configuramos no grupo de segurança)

```
Administrator: Windows PowerShell
PS C:\Users\Administrator\Desktop\ambiente\web-data-viz\site> notepad .\app.js
```

```
*app - Notepad
File Edit Format View Help
//process.env.AMBIENTE_PROCESSO = "desenvolvimento";
process.env.AMBIENTE_PROCESSO = "producao";

var express = require("express");
var cors = require("cors");
var path = require("path");
var PORTA = process.env.AMBIENTE_PROCESSO == "desenvolvimento" ? 3333 : 80; ? 3333 : 80;

var app = express();

var indexRouter = require("./src/routes/index");
var usuarioRouter = require("./src/routes/usuarios");
var avisosRouter = require("./src/routes/avisos");
var medidasRouter = require("./src/routes/medidas");
var aquariosRouter = require("./src/routes/aquarios");
var empresasRouter = require("./src/routes/empresas");

app.use(express.json());
app.use(express.urlencoded({ extended: false }));
app.use(express.static(path.join(__dirname, "public")));

app.use(cors());

app.use("/", indexRouter);
app.use("/usuarios", usuarioRouter);
app.use("/avisos", avisosRouter);
app.use("/medidas", medidasRouter);
app.use("/aquarios", aquariosRouter);
app.use("/empresas", empresasRouter);
<
```

```
Administrator: Windows PowerShell
PS C:\Users\Administrator\Desktop\ambiente\web-data-viz\site> npm start
> web-data-viz@1.0.0 start
> node app.js
Servidor do seu site já está rodando! Acesse o caminho a seguir para visualizar: http://localhost:80
  Você está rodando sua aplicação em Ambiente de producao
    Se "desenvolvimento", você está se conectando ao banco LOCAL (MySQL Workbench).
    Se "producao", você está se conectando ao banco REMOTO (SQL Server em nuvem Azure)
      Para alterar o ambiente, comente ou descomente as linhas 1 ou 2 no arquivo 'app.js'
```

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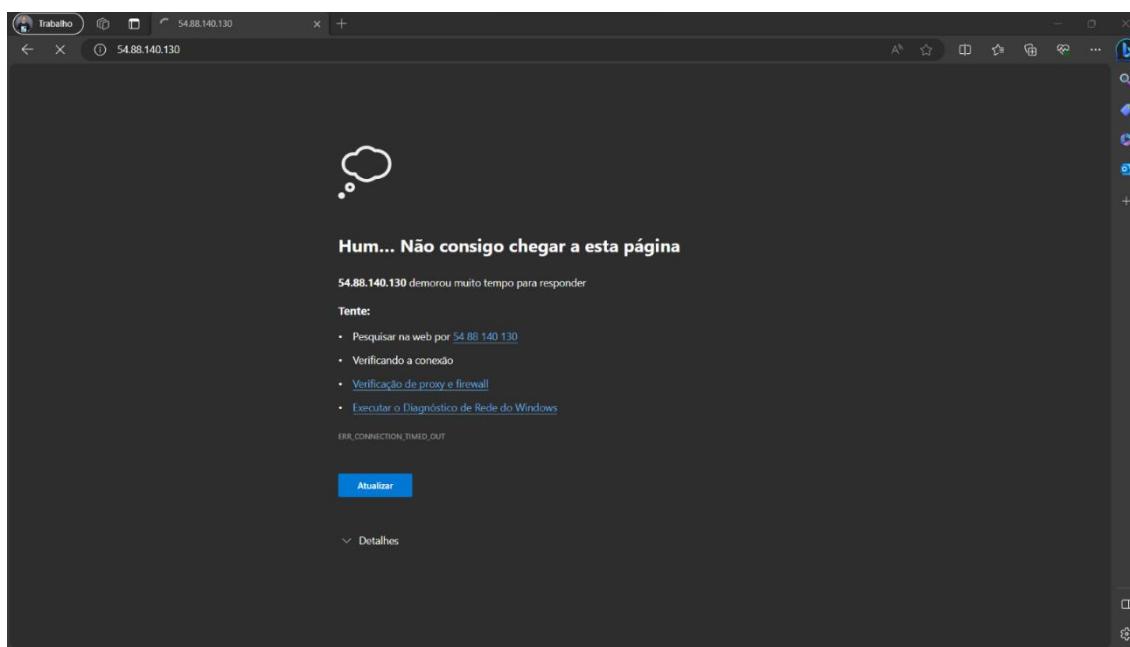
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Localmente (no próprio Windows server) funciona!

Vamos testar agora da sua máquina com o IPv4 público da instância.



Precisamos liberar as regras de firewall da máquina para termos acesso remoto!

Liberação de firewall Windows server

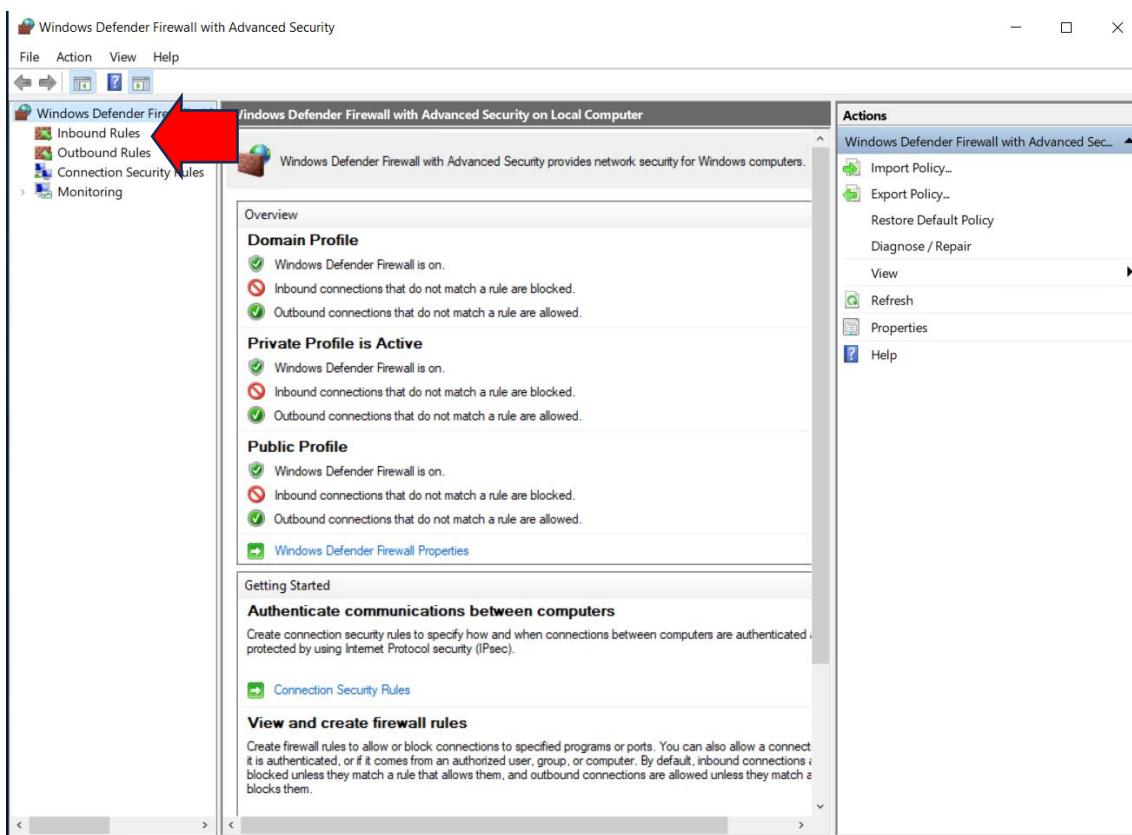
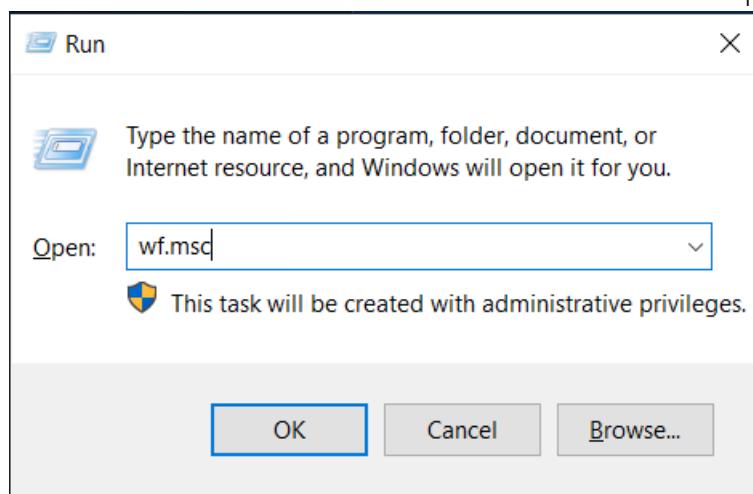
Na máquina virtual acesse o run com o comando **Win+R**

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The screenshot shows the Windows Defender Firewall with Advanced Security interface. The main window displays a list of 'Inbound Rules'. The 'Actions' pane on the right contains options like 'New Rule...', 'Filter by Profile', 'Filter by State', 'Filter by Group', 'View', 'Refresh', 'Export List...', and 'Help'. A red arrow highlights the 'Actions' pane.

Name	Group	Profile	Action
AllJoyn Router (TCP-In)	AllJoyn Router	Domain	
AllJoyn Router (UDP-In)	AllJoyn Router	Domain	
BranchCache Content Retrieval (HTTP-In)	BranchCache - Content Retri...	All	No
BranchCache Hosted Cache Server (HTTP-In)	BranchCache - Hosted Cache...	All	No
BranchCache Peer Discovery (WSD-In)	BranchCache - Peer Discover...	All	No
Cast to Device functionality (qWave-TCP-In)	Cast to Device functionality	Private...	Yes
Cast to Device functionality (qWave-UDP-In)	Cast to Device functionality	Private...	Yes
Cast to Device SSDP Discovery (UDP-In)	Cast to Device functionality	Public	Yes
Cast to Device streaming server (HTTP-Str...	Cast to Device functionality	Private	Yes
Cast to Device streaming server (HTTP-Str...	Cast to Device functionality	Public	Yes
Cast to Device streaming server (RTCP-Str...	Cast to Device functionality	Domain	Yes
Cast to Device streaming server (RTCP-Str...	Cast to Device functionality	Public	Yes
Cast to Device streaming server (RTCP-Str...	Cast to Device functionality	Domain	Yes
Cast to Device streaming server (RTCP-Str...	Cast to Device functionality	Private	Yes
Cast to Device streaming server (RTSP-Str...	Cast to Device functionality	Private	Yes
Cast to Device streaming server (RTSP-Str...	Cast to Device functionality	Public	Yes
Cast to Device streaming server (RTSP-Str...	Cast to Device functionality	Domain	Yes
Cast to Device UpnP Events (TCP-In)	Cast to Device functionality	Public	Yes
COM+ Network Access (DCOM-In)	COM+ Network Access	All	No
COM+ Remote Administration (DCOM-In)	COM+ Remote Administration	All	No
Core Networking - Destination Unreachab...	Core Networking	All	Yes
Core Networking - Destination Unreachab...	Core Networking	All	Yes
Core Networking - Dynamic Host Configu...	Core Networking	All	Yes
Core Networking - Dynamic Host Configu...	Core Networking	All	Yes
Core Networking - Internet Group Manag...	Core Networking	All	Yes
Core Networking - IPHTTPS (TCP-In)	Core Networking	All	Yes
Core Networking - IPv6 (IPv6-In)	Core Networking	All	Yes
Core Networking - Multicast Listener Don...	Core Networking	All	Yes
Core Networking - Multicast Listener Que...	Core Networking	All	Yes
Core Networking - Multicast Listener Rep...	Core Networking	All	Yes
Core Networking - Multicast Listener Rep...	Core Networking	All	Yes
Core Networking - Neighbor Discovery A...	Core Networking	All	Yes

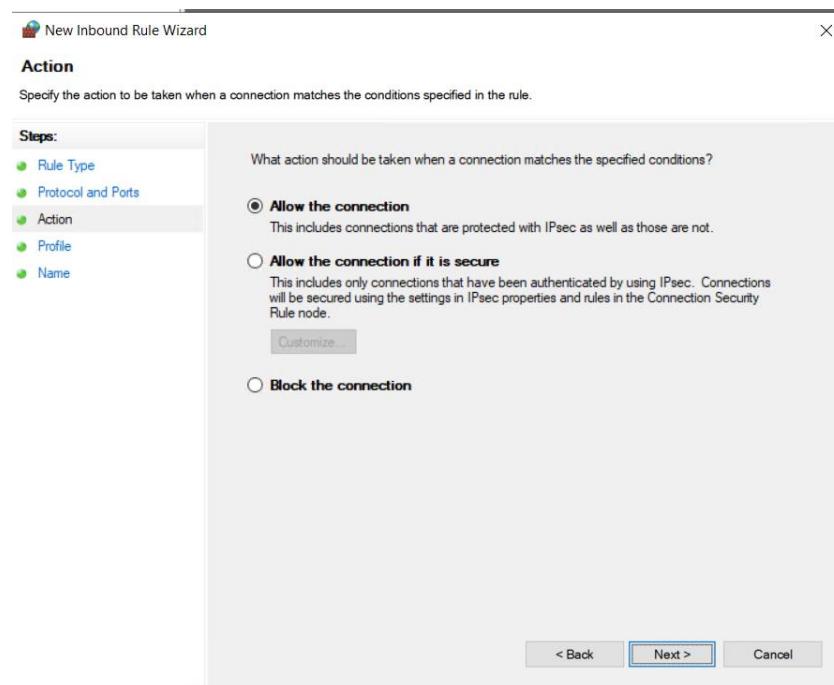
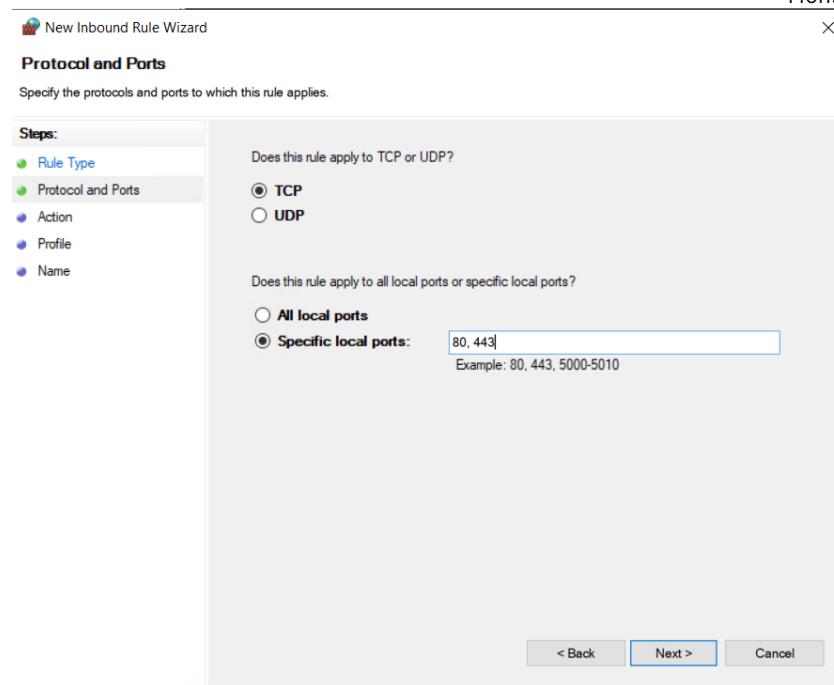
The screenshot shows the 'New Inbound Rule Wizard' with the 'Rule Type' step selected. The left sidebar lists steps: Rule Type (selected), Protocol and Ports, Action, Profile, and Name. The main area asks 'What type of rule would you like to create?' and provides four options: Program (radio button), Port (radio button, selected), Predefined (radio button), and Custom (radio button). The 'Port' section shows 'AllJoyn Router' as the selected profile. Navigation buttons at the bottom include '< Back', 'Next >', and 'Cancel'.

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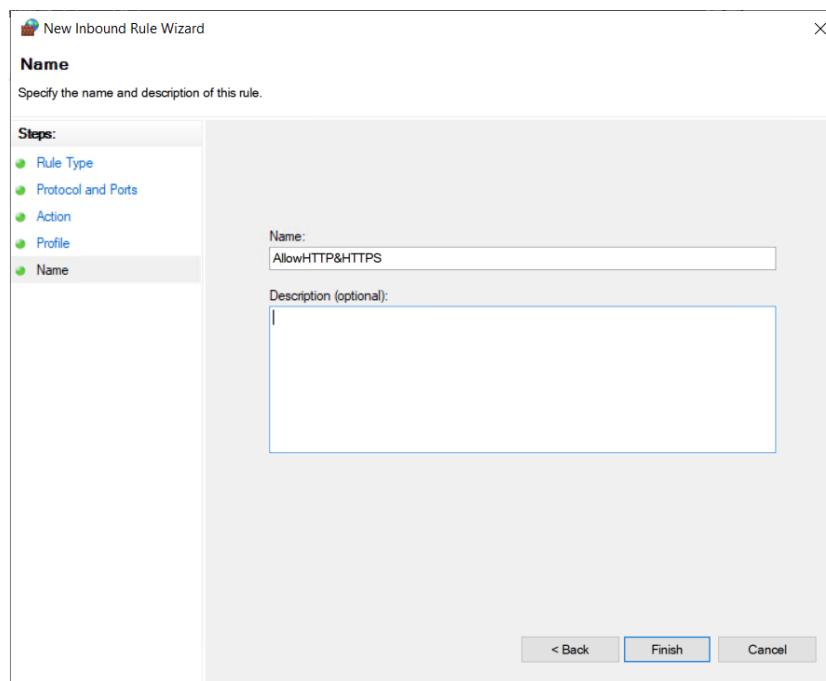
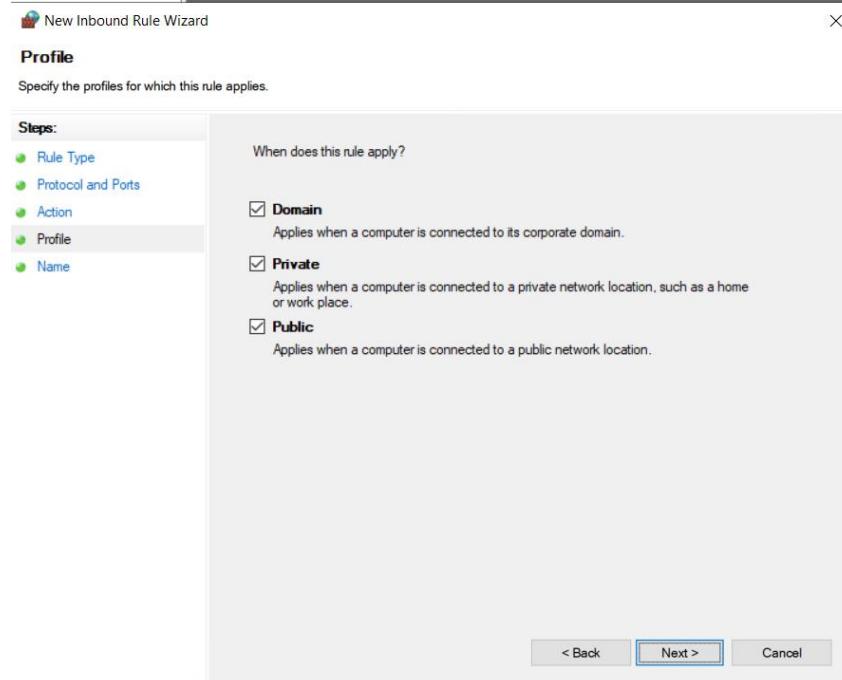


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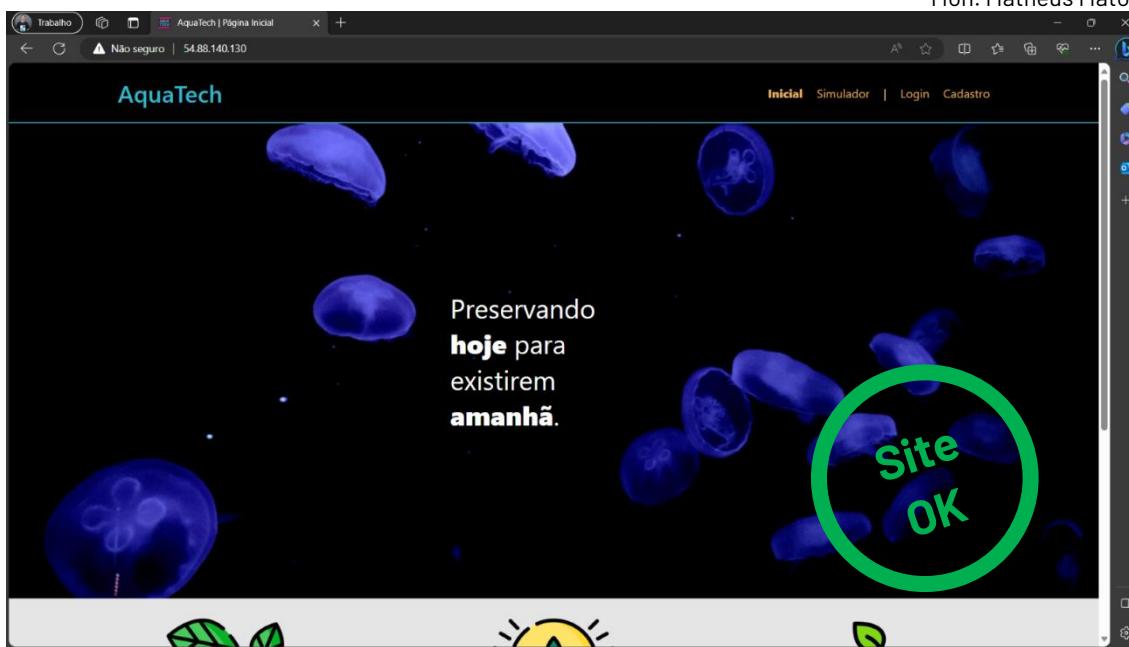
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Teste novamente com o IPv4 público da sua instância



Instalando NodeJS e Git Bash via OS (alternativa)

```
PS C:\Users\Administrator\Desktop\ambiente> New-Item installScript.ps1  
PS C:\Users\Administrator\Desktop\ambiente> notepad .\installScript.ps1
```

No arquivo que abrir digite:

```
# Install Node.js  
echo "instalando o nodejs"  
Invoke-WebRequest -Uri "https://nodejs.org/dist/v20.7.0/node-v20.7.0-x64.msi" -OutFile  
"C:\node-v20.7.0-x64.msi"  
Start-Process -Wait -FilePath "msiexec.exe" -ArgumentList "/i C:\node-v20.7.0-x64.msi /qn"  
Remove-Item -Path "C:\node-v20.7.0-x64.msi"  
[System.Console]::Clear()  
  
# Install Git Bash  
echo "instalando o gitbash"  
Invoke-WebRequest -Uri https://github.com/git-for-  
windows/git/releases/download/v2.37.1.windows.1/Git-2.37.1-64-bit.exe -UseBasicParsing -  
OutFile "C:\git.exe"  
Start-Process "C:\git.exe" -ArgumentList '/VERYSILENT /NORESTART /NOCANCEL /SP-  
/CLOSEAPPLICATIONS /RESTARTAPPLICATIONS  
/COMPONENTS="icons,ext\reg\shellhere,assoc,assoc_sh" -Wait  
Remove-Item -Path "C:\git.exe"  
[Environment]::SetEnvironmentVariable('Path', "$([Environment]::GetEnvironmentVariable('Path',  
Machine));C:\Program Files\Git\bin", 'Machine')  
[System.Console]::Clear()
```

Salve o arquivo

```
PS C:\Users\Administrator\Desktop\ambiente> .\installScript.ps1
```

SQL Server

Instalando o SQL Server Express

Agora iremos instalar uma versão Express no servidor (instância) na AWS. Acesse a pasta de ambiente criada com permissão de administrador.

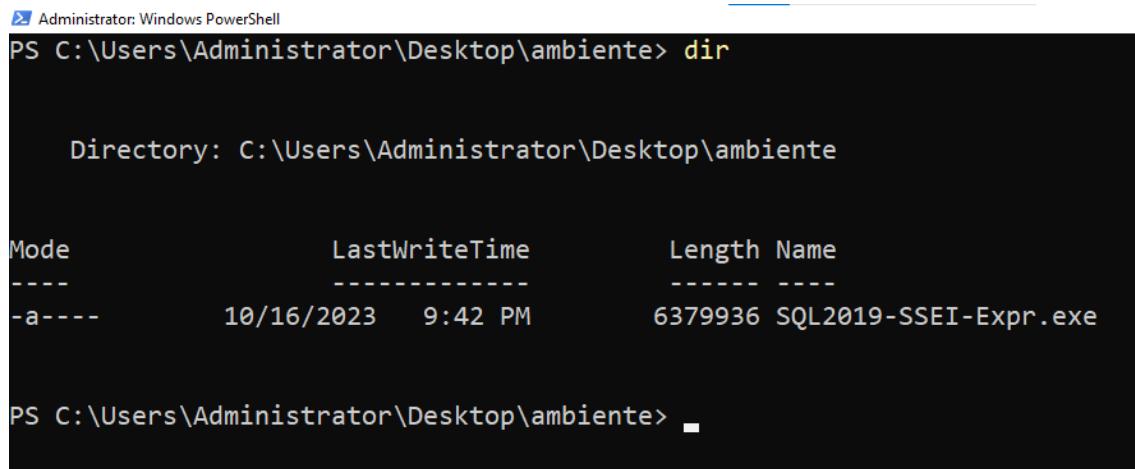
Execute o seguinte comando:

```
Invoke-WebRequest -URI https://download.microsoft.com/download/7/f/8/7f8a9c43-8c8a-4f7c-9f92-83c18d96b681/SQL2019-SSEI-Expr.exe -OutFile "SQL2019-SSEI-Expr.exe"
```



```
Administrator: Windows PowerShell (x86)
PS C:\Users\Administrator\Desktop\ambiente> Invoke-WebRequest -URI https://download.microsoft.com/download/7/f/8/7f8a9c43-8c8a-4f7c-9f92-83c18d96b681\SQL2019-SSEI-Expr.exe
Writing web request
Writing request stream... (Number of bytes written: 1495584)
```

Ao finalizar a instalação, certifique-se que você baixou o executável com o comando `dir`



```
Administrator: Windows PowerShell
PS C:\Users\Administrator\Desktop\ambiente> dir

Directory: C:\Users\Administrator\Desktop\ambiente

Mode                LastWriteTime         Length Name
----                -----          ----- ----
-a---       10/16/2023   9:42 PM        6379936 SQL2019-SSEI-Expr.exe

PS C:\Users\Administrator\Desktop\ambiente>
```

Execute a aplicação com

```
.\SQL2019-SSEI-Expr.exe
```

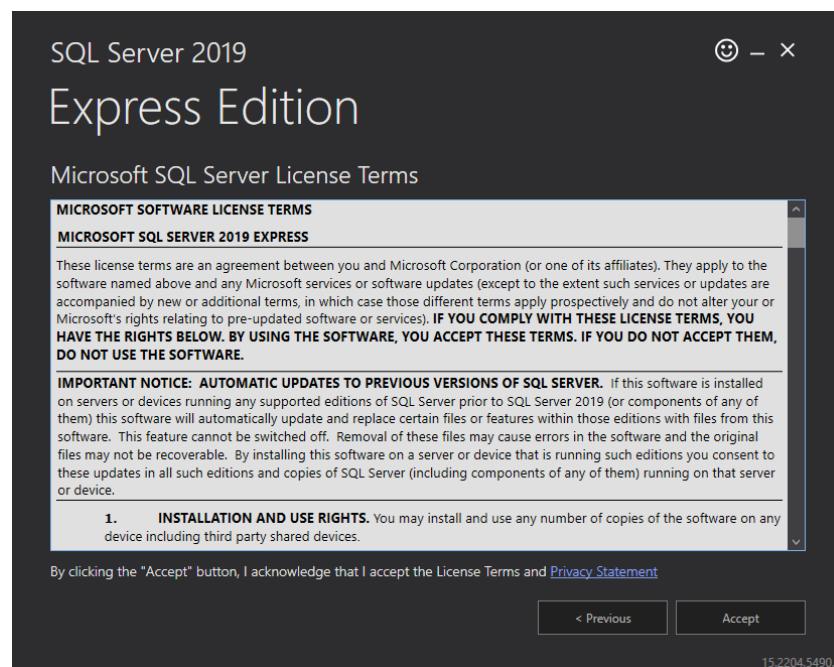
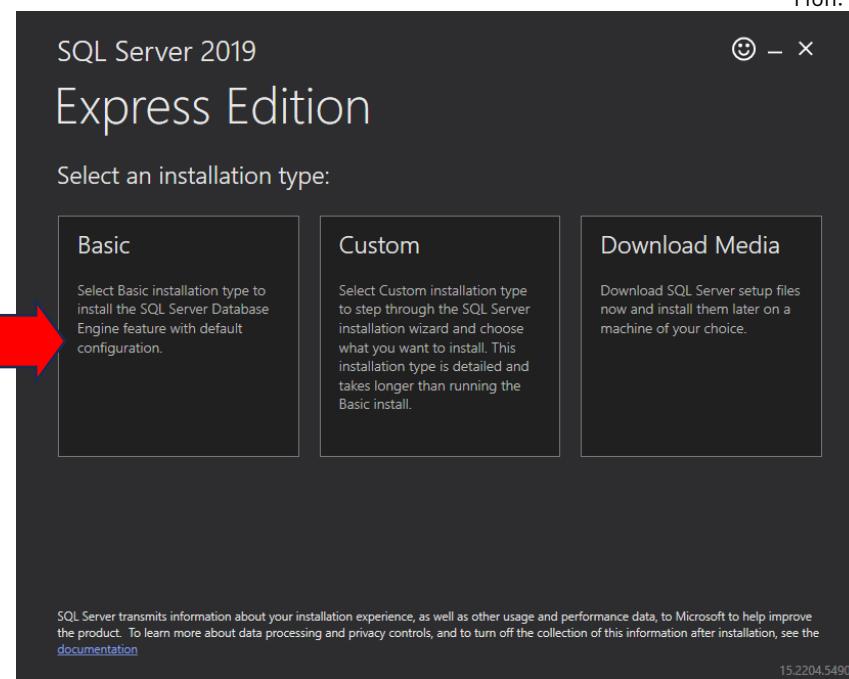
Configurando o SQL Server

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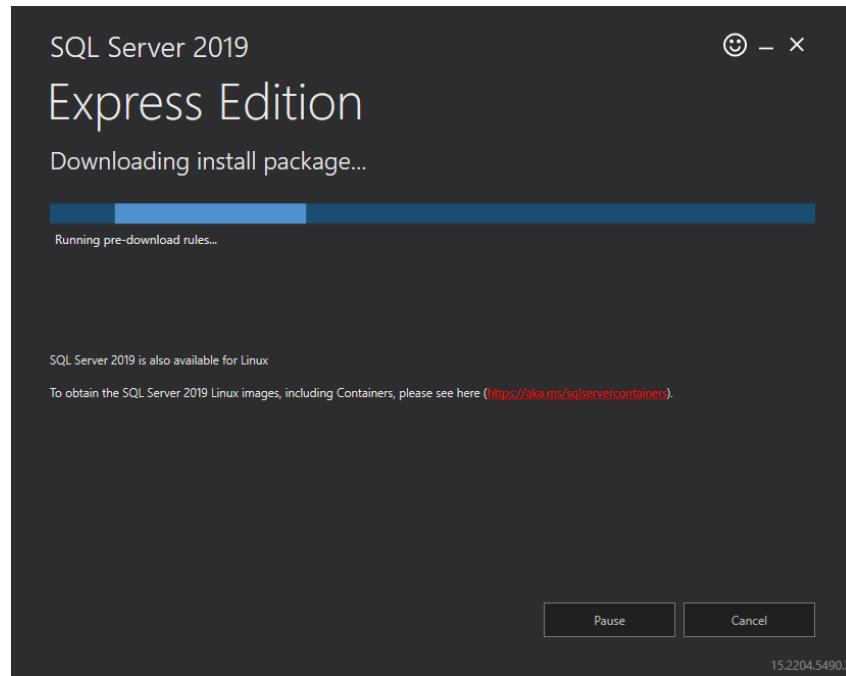
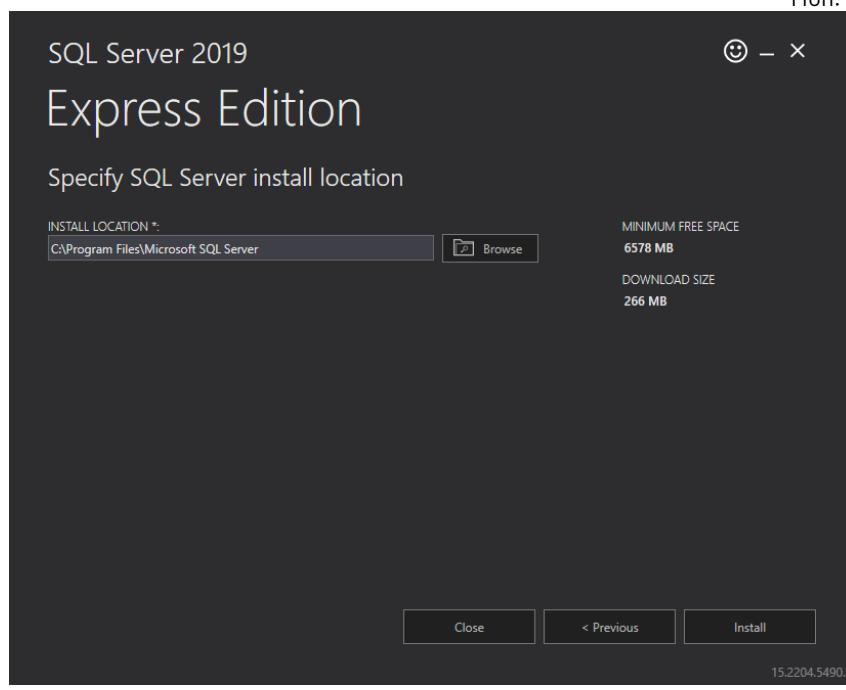


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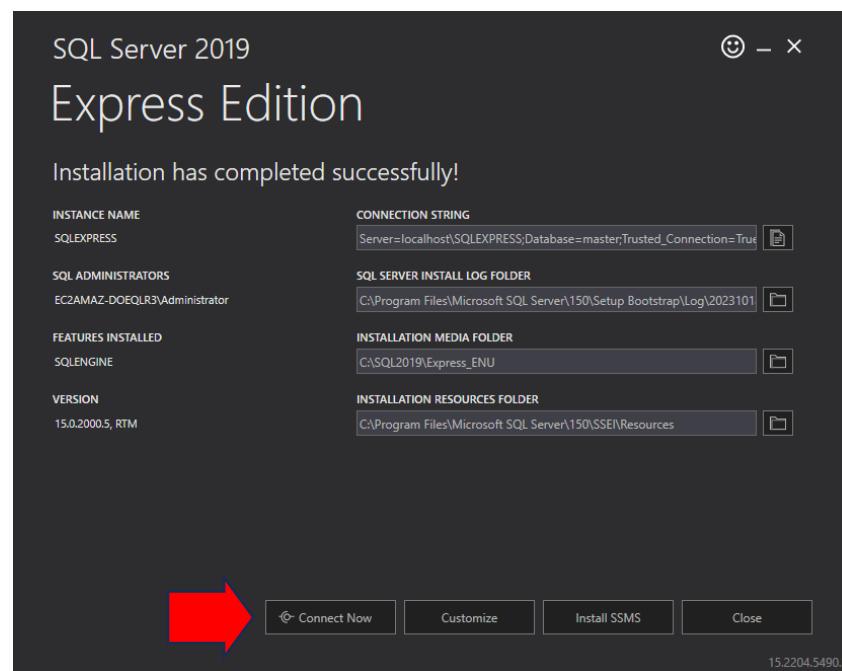
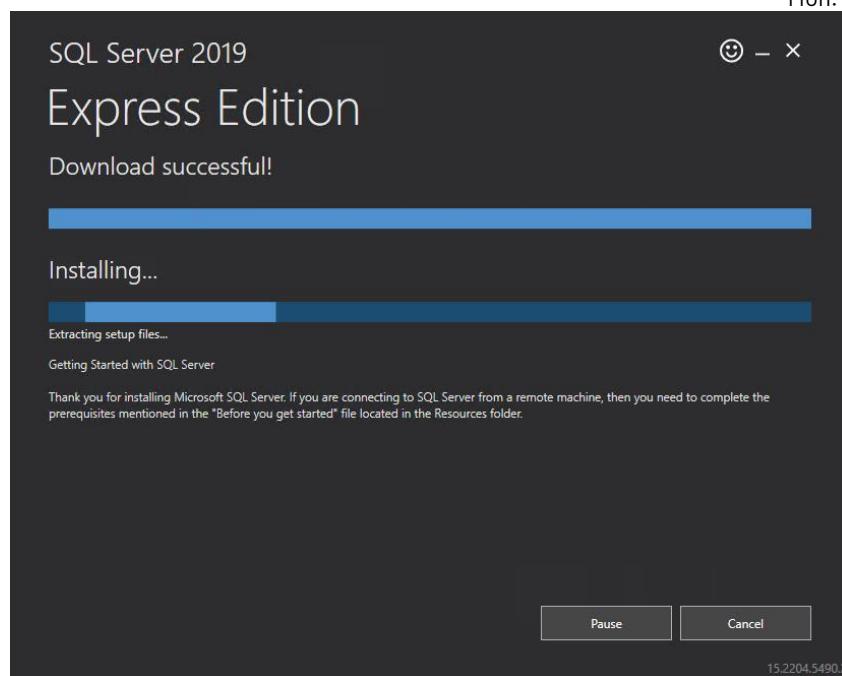


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Para testar a conexão clique em Conect Now

```
-- run below command from command prompt
-- sqlcmd -S EC2AMAZ-DOEQLR3\SQLEXPRESS -E
-- 

select @@Version
go

Microsoft SQL Server 2019 (RTM) - 15.0.2000.5 (X64)
Sep 24 2019 13:48:23
Copyright (C) 2019 Microsoft Corporation
Express Edition (64-bit) on Windows Server 2022 Datacenter 10.0 <X64> (Build 20348: ) (Hypervisor)

(1 row affected)
1> -
```

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Podemos fechar agora o gerenciador de instalação do SQL Server. E cuidaremos das configurações de portas de acesso.

Liberação de firewall para o SQL Server

The screenshot shows the Windows Control Panel interface. A large red arrow points from the top left towards the 'Windows Defender Firewall' section. Another red arrow points from the bottom left towards the 'Advanced settings' link. The Control Panel is set to 'Category' view.

Control Panel

View by: Category ▾

Adjust your computer's settings

System and Security

- Review your computer's status
- View event logs

Network and Internet

- View network status and tasks

Hardware

- View devices and printers
- Add a device

Programs

- Uninstall a program
- Turn Windows features on or off

User Accounts

- Change account type

Appearance and Personalization

Clock and Region

- Set the time and date
- Change date, time, or number formats

Ease of Access

- Let Windows suggest settings
- Optimize visual display

Security and Maintenance

- Review your computer's status and resolve issues
- Change User Account Control settings
- Troubleshoot common computer problems

Windows Defender Firewall

- Check firewall status
- Allow an app through Windows Firewall

System

- View amount of RAM and processor speed
- Allow remote access
- Launch remote assistance
- See the name of this computer

Power Options

- Change what the power buttons do
- Change when the computer sleeps

Administrative Tools

- Defragment and optimize your drives
- Create and format hard disk partitions
- View event logs
- Schedule tasks
- Generate a system health report

Control Panel Home

Help protect your PC with Windows Defender Firewall

Windows Defender Firewall can help prevent hackers or malicious software from gaining access to your PC through the Internet or a network.

Private networks	Connected
Networks at home or work where you know and trust the people and devices on the network	
Windows Defender Firewall state:	On
Incoming connections:	Block all connections to apps that are not on the list of allowed apps
Active private networks:	Network 2
Notification state:	Do not notify me when Windows Defender Firewall blocks a new app

Guest or public networks	Not connected

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Esp. Marcio Santana

Mon. Matheus Matos

The screenshot shows two windows side-by-side. The left window is titled 'Windows Defender Firewall with Advanced Security' and displays the 'Inbound Rules' list. A red box labeled '1' highlights the 'Inbound Rules' link in the navigation pane. The right window is titled 'New Inbound Rule Wizard' and shows the 'Rule Type' step. A red box labeled '2' highlights the 'New Rule...' button in the 'Actions' pane.

Inbound Rules List (Left Window):

Name	Group	Profile	Enabled	Action	Override	Program	Local Address	Remote Address
Host Process for Windows Services		Domain	No	Allow	No	C:\Wind...	Any	Any
Host Process for Windows Services		Private...	Yes	Allow	No	C:\Wind...	Any	Any
Host Process for Windows Services		Private...	Yes	Allow	No	C:\Wind...	Any	Any
Host Process for Windows Services		Domain	No	Allow	No	C:\Wind...	Any	Any
AllJoyn Router (TCP-In)	AllJoyn Router	Domain	Yes	Allow	No	%System...	Any	Any
AllJoyn Router (UDP-In)	AllJoyn Router	Domain	Yes	Allow	No	%System...	Any	Any
BranchCache Content Retrieval (HTTP-In)	BranchCache - Content Retr...	All	No	Allow	No	SYSTEM	Any	Any
BranchCache Hosted Cache Server (HTTP...	BranchCache - Hosted Cach...	All	No	Allow	No	SYSTEM	Any	Any
BranchCache Peer Discovery (WSD-In)	BranchCache - Peer Discove...	All	No	Allow	No	%System...	Any	Local st...
Cast to Device functionality (qWave-TCP...	Cast to Device functionality	Private...	Yes	Allow	No	%System...	Any	PlayTo I...
Cast to Device functionality (qWave-UDP...	Cast to Device functionality	Private...	Yes	Allow	No	%System...	Any	PlayTo I...
Cast to Device SSDP Discovery (UDP-In)	Cast to Device functionality	Public	Yes	Allow	No	%System...	Any	Any
Cast to Device streaming server (HTTP-Streaming-In)	Device functionality	Private	Yes	Allow	No	System	Any	Local st...
Cast to Device streaming server (HTTP-Str...	Cast to Device functionality	Domain	Yes	Allow	No	System	Any	Any
Cast to Device streaming server (HTTP-Str...	Cast to Device functionality	Public	Yes	Allow	No	System	Any	PlayTo I...
Cast to Device streaming server (RTCP-Str...	Cast to Device functionality	Private	Yes	Allow	No	%System...	Any	Local st...
Cast to Device streaming server (RTCP-Str...	Cast to Device functionality	Domain	Yes	Allow	No	%System...	Any	Any
Cast to Device streaming server (RTSP-Str...	Cast to Device functionality	Public	Yes	Allow	No	%System...	Any	PlayTo I...
Cast to Device streaming server (RTSP-Str...	Cast to Device functionality	Public	Yes	Allow	No	%System...	Any	PlayTo I...
Cast to Device streaming server (RTSP-Str...	Cast to Device functionality	Public	Yes	Allow	No	%System...	Any	PlayTo I...
Cast to Device streaming server (RTSP-Str...	Cast to Device functionality	Private	Yes	Allow	No	%System...	Any	Local st...
Cast to Device UPnP Events (TCP-In)	Cast to Device functionality	Public	Yes	Allow	No	System	Any	PlayTo I...
COM+ Network Access (DCOM-In)	COM+ Network Access	All	No	Allow	No	%System...	Any	Any
COM+ Remote Administration (DCOM-In)	COM+ Remote Administrati...	All	No	Allow	No	%System...	Any	Any
Core Networking - Destination Unreacha...	Core Networking	All	Yes	Allow	No	System	Any	Any
Core Networking - Destination Unreacha...	Core Networking	All	Yes	Allow	No	System	Any	Any
Core Networking - Dynamic Host Config...	Core Networking	All	Yes	Allow	No	%System...	Any	Any
Core Networking - Internet Group Mana...	Core Networking	All	Yes	Allow	No	System	Any	Any
Core Networking - IPWTTCE (TCP-In)	Core Networking	All	Yes	Allow	No	Custom	Any	Any

New Inbound Rule Wizard (Right Window):

The window title is 'New Inbound Rule Wizard'. The current step is 'Rule Type'. It asks 'What type of firewall rule would you like to create?'. The 'Port' option is selected. Other options include 'Program', 'Predefined', and 'Custom'. The 'Predefined' dropdown shows 'AllJoyn Router'. Navigation buttons at the bottom are '< Back', 'Next >', and 'Cancel'.

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X



Protocol and Ports

Specify the protocols and ports to which this rule applies.

Steps:

Rule Type

Protocol and Ports

Action

Profile

Name

Does this rule apply to TCP or UDP?

TCP

UDP

Does this rule apply to all local ports or specific local ports?

All local ports

Specific local ports:

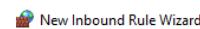
1433

Example: 80, 443, 5000-5010

< Back

Next >

Cancel



X

Action

Specify the action to be taken when a connection matches the conditions specified in the rule.

Steps:

Rule Type

Protocol and Ports

Action

Profile

Name

What action should be taken when a connection matches the specified conditions?

Allow the connection

This includes connections that are protected with IPsec as well as those are not.

Allow the connection if it is secure

This includes only connections that have been authenticated by using IPsec. Connections will be secured using the settings in IPsec properties and rules in the Connection Security Rule node.

Customize...

Block the connection

< Back

Next >

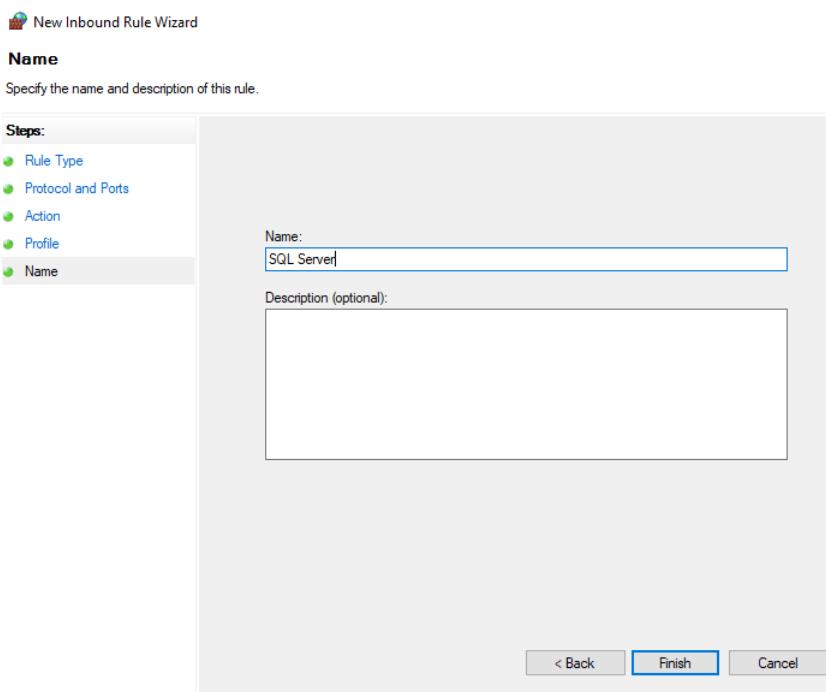
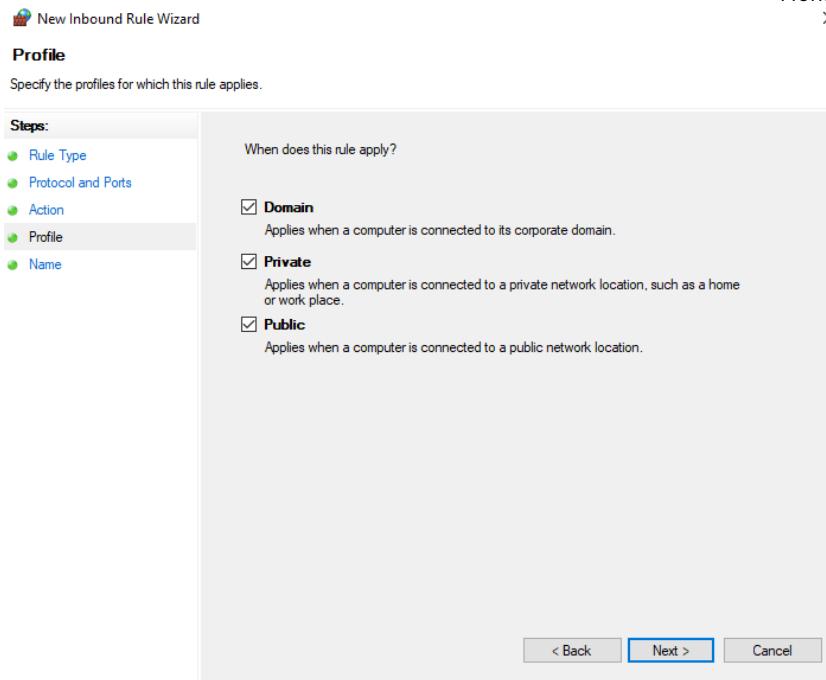
Cancel

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Name	Group	Profile	Enabled	Action	Override	Program	Local Address
Host Process for Windows Services		Domain	No	Allow	No	C:\Wind...	Any
Host Process for Windows Services		Private...	Yes	Allow	No	C:\Wind...	Any
Host Process for Windows Services		Domain	No	Allow	No	C:\Wind...	Any
Host Process for Windows Services		Private...	Yes	Allow	No	C:\Wind...	Any
SQL Server	All	Yes	Allow	No	Any	Any	Any
AllJoyn Router (TCP-In)	AllJoyn Router	Domai...	Yes	Allow	No	%System...	Any
AllJoyn Router (UDP-In)	AllJoyn Router	Domai...	Yes	Allow	No	%System...	Any
BranchCache Content Retrieval (HTTP-In)	BranchCache - Content Retr...	All	No	Allow	No	SYSTEM	Any
BranchCache Hosted Cache Server (HTTP...	BranchCache - Hosted Cach...	All	No	Allow	No	SYSTEM	Any

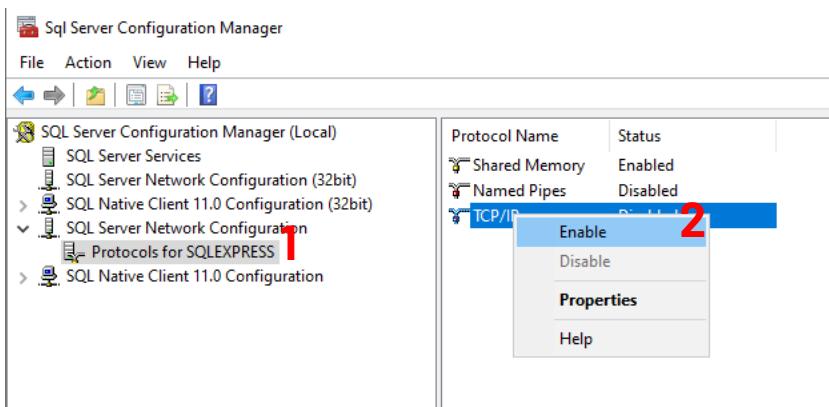
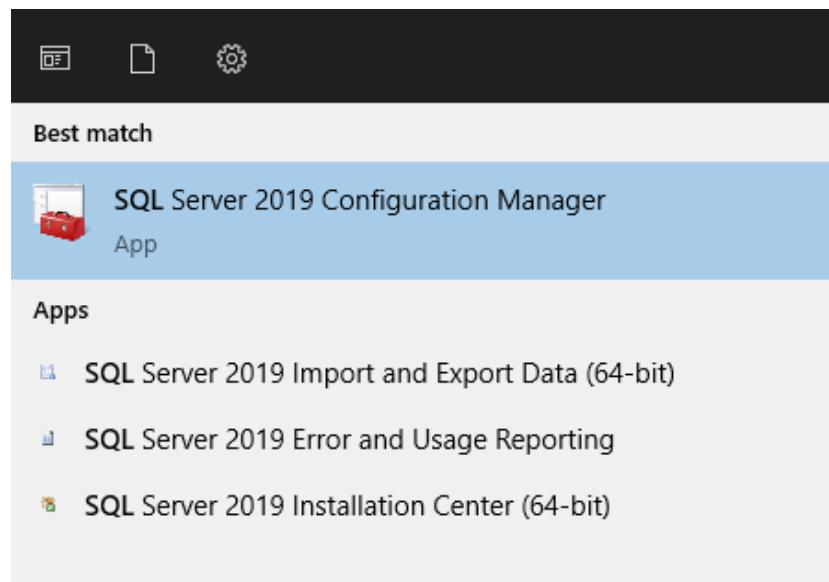
Habilitando TCP/IP para o SQL Server

Se usarmos sempre a instalação do SQL Server no mesmo computador, podemos pular esta etapa. Por exemplo, se formos um usuário individual com apenas um computador e fizermos tudo nesse computador, sempre poderemos nos conectar ao SQL Server usando uma designação localhost, ou seja, sem passar por nenhuma rede.

Só precisamos fazer este procedimento se quisermos acessar esta instalação do SQL Server pela rede a partir de outros computadores. Por exemplo, se trabalhamos em uma organização com vários computadores e um deles hospeda esta instalação do SQL Server, mas na verdade fazemos nosso trabalho em um computador diferente, para conectar-nos do nosso computador desktop à máquina que hospeda o SQL Server, temos que ser capazes para se conectar a ele através da web.

O Firewall do Windows Defender da Microsoft impedirá conexões através da rede com o SQL Server, portanto, primeiro configuraremos o firewall para permitir conexões no tópico anterior e agora devemos configurar o SQL Server para aceitar tais conexões usando TCP/IP.

Inicie o SQL Server 2017 Configuration Manager, um aplicativo que foi instalado automaticamente quando instalamos o SQL Server 2017 Express.

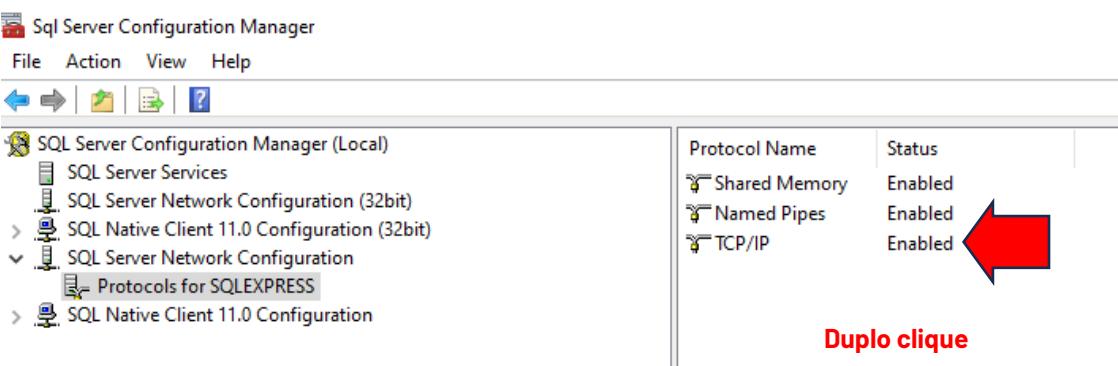
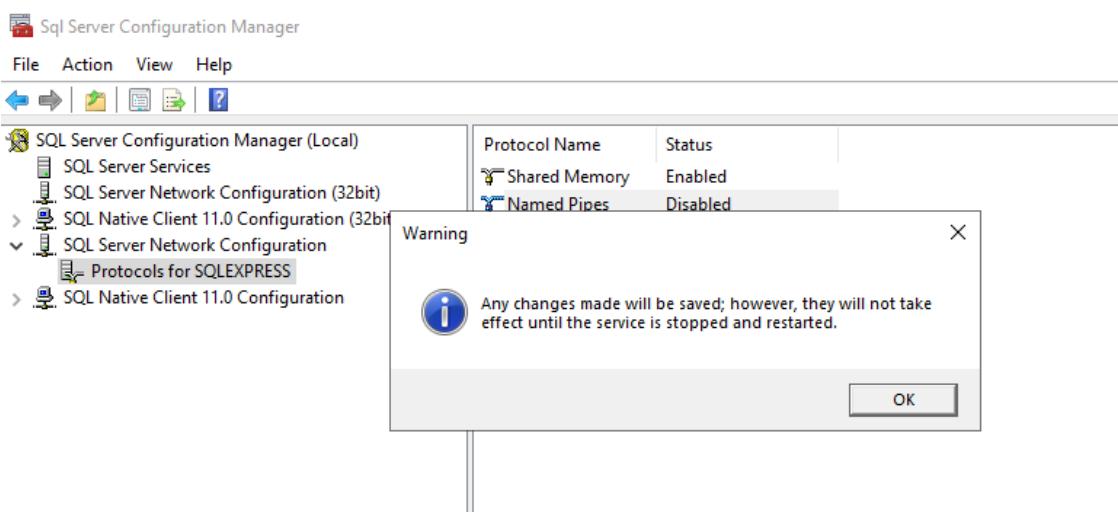
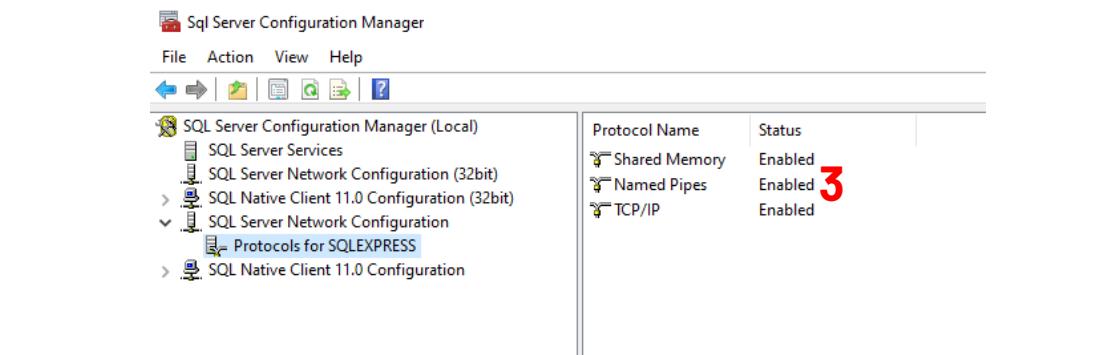


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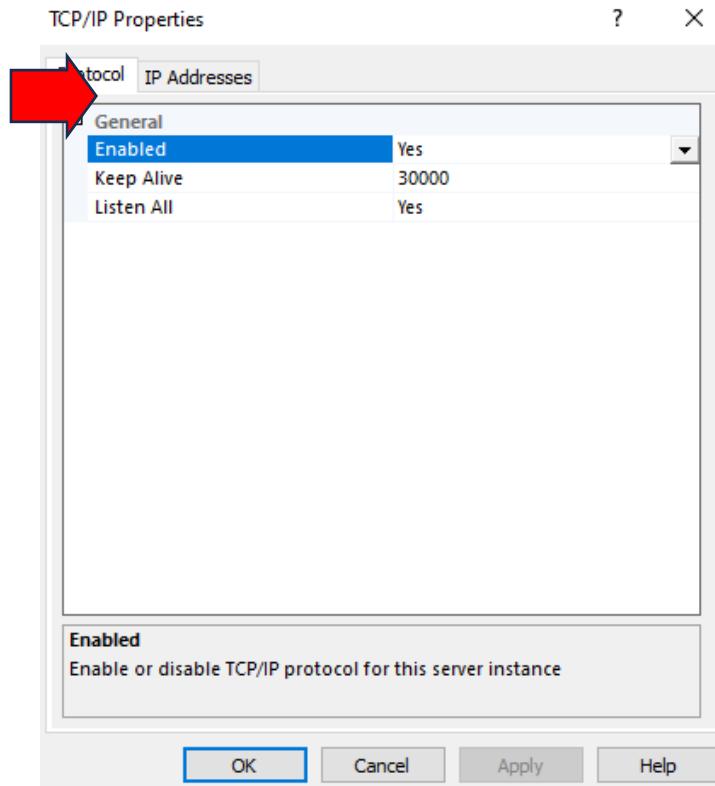


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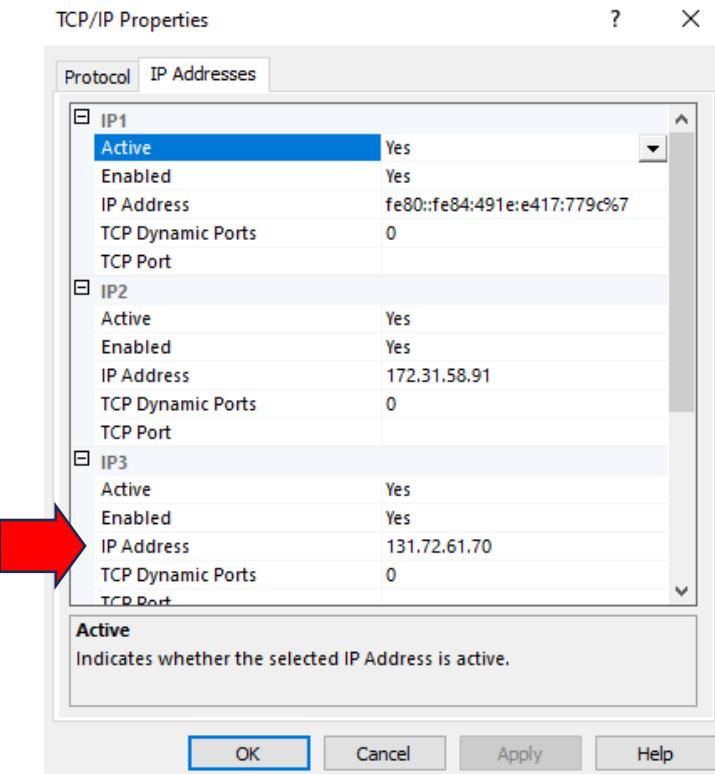
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Configure para que os IPs estejam como **enable: yes** além disso, em um dos IPs coloque o seu IP de saída público

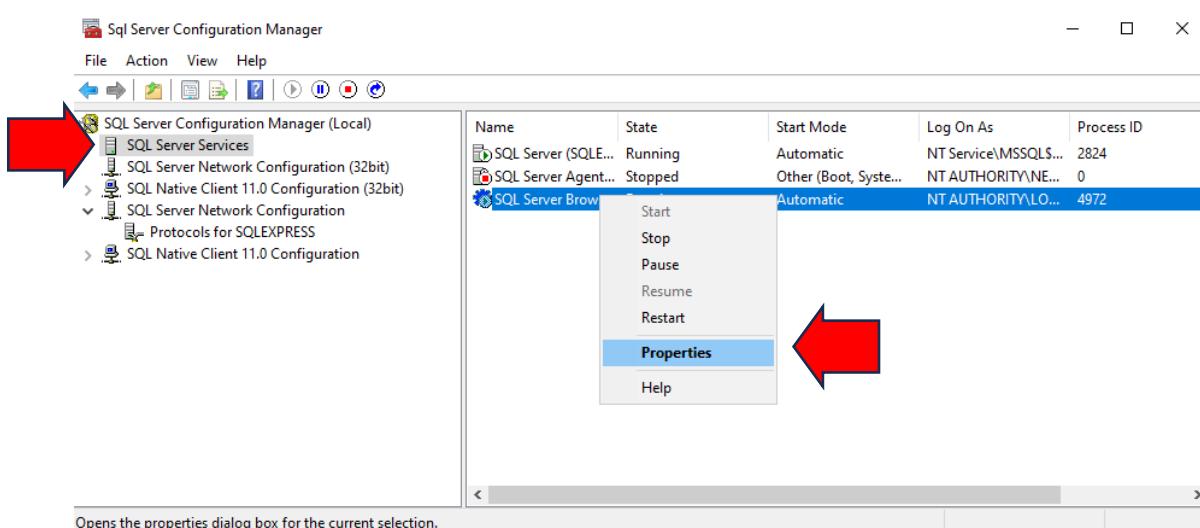
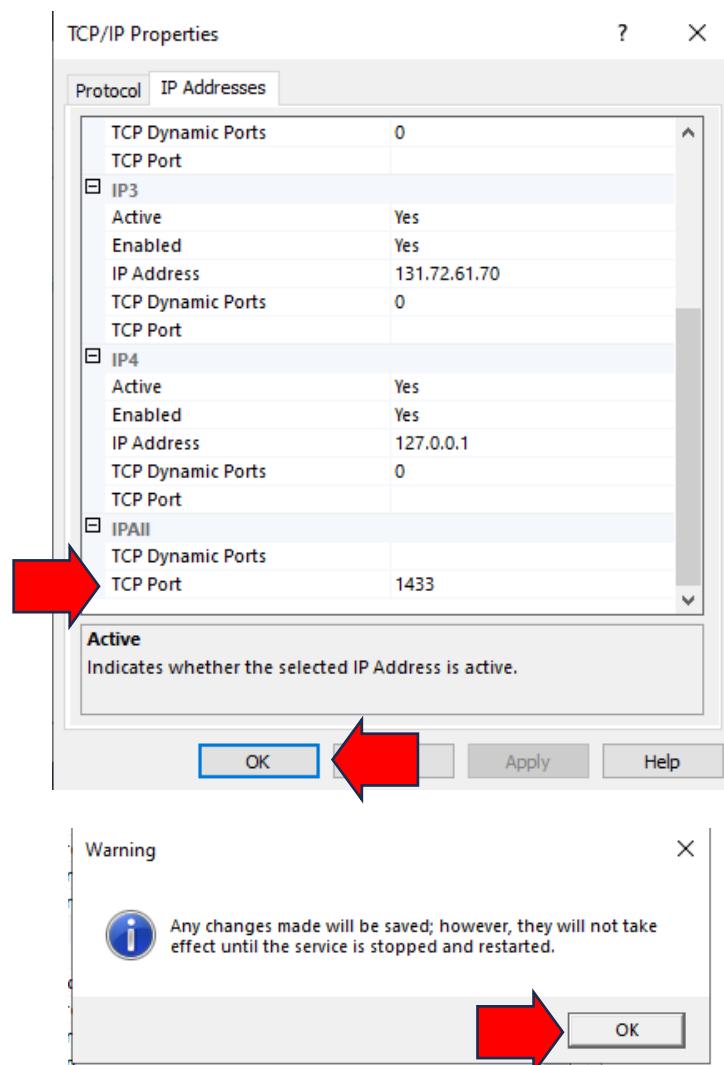


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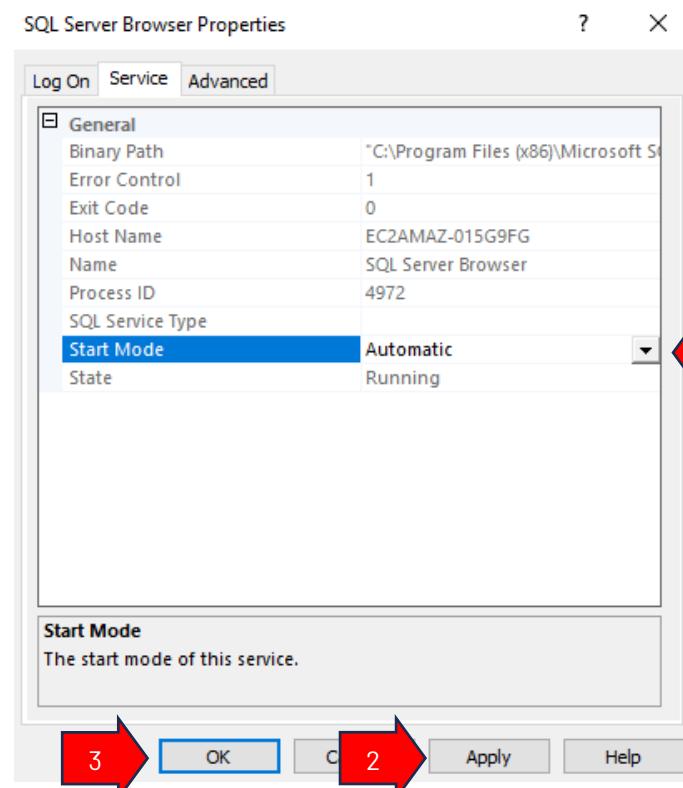
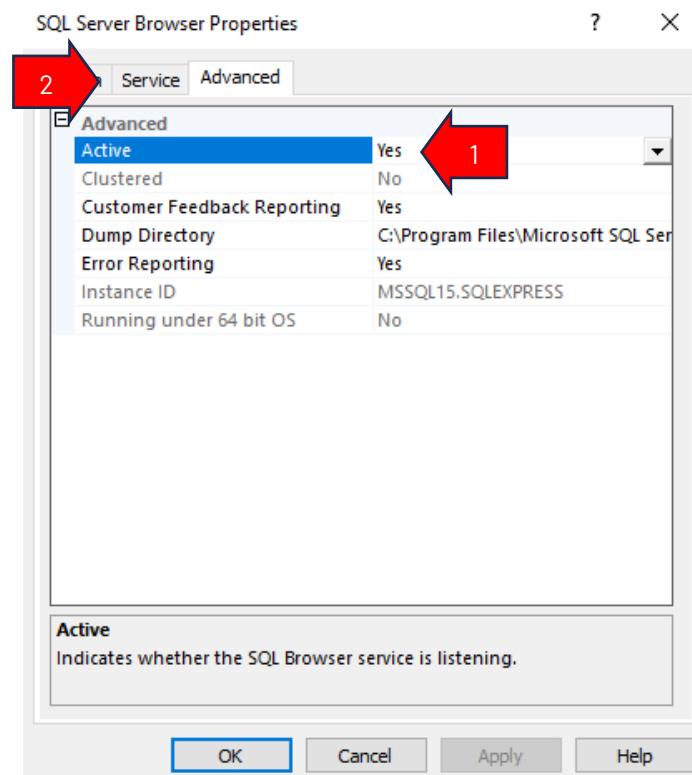
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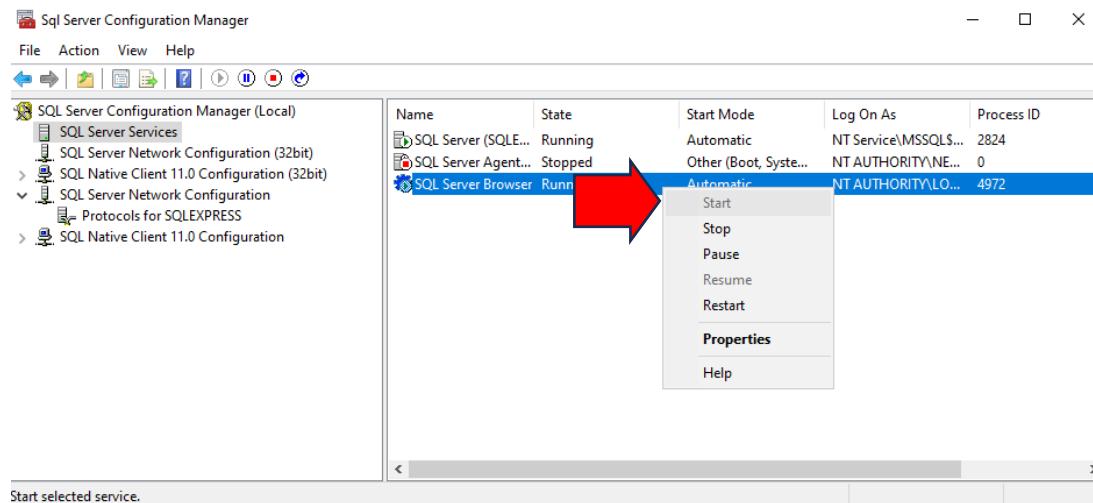


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Precisamos reiniciar o servidor para que nossas modificações surtam efeito.

A screenshot of the SQL Server Configuration Manager window. The tree view shows 'SQL Server Configuration Manager (Local)' with 'SQL Server Services' expanded, showing 'SQL Server (SQLE...) Running', 'SQL Server Agent... Stopped', and 'SQL Server Browser Running'. A red arrow points to the context menu for the 'SQL Server' service, specifically the 'Restart' option. The main table on the right lists services with columns: Name, State, Start Mode, Log On As, and Process ID. Below the table is another table showing detailed service information.

Name	State	Start Mode	Log On As	Process ID
SQL Server (SQLE...)	Running	Automatic	NT Service\MSQL\$...	2824
SQL Server Agent...	Stopped	Other (Boot, Syste...)	Start	\NE... 0
SQL Server Browser	Running	Automatic	Stop	\LO... 4972

Name	State	Start Mode	Log On As	Process ID	Service Type
SQL Server Browser	Running	Automatic	NT AUTHORITY\LO...	3160	
SQL Server (SQLEXPRESS)	Running	Automatic	NT Service\MSQL\$...	6676	SQL Server
SQL Server Agent (SQLEXPRESS)	Stopped	Other (Boot, Syste...)	NT AUTHORITY\NE...	0	SQL Agent

Liberando a porta na AWS

Além de configurar a porta no Windows Server, é necessário liberar nas regras de entrada dos grupos de segurança a porta **1433** com o protocolo **MSSQL**.

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Name	ID da regra do grupo de segurança	Versão do IP	Tipo	Protocolo
-	sgr-04e53184ceaf18f4	IPv4	MSSQL	TCP
-	sgr-012e99eec6cce8d9e	IPv4	TCP personalizado	TCP
-	sgr-0258800f6e6b2b40f	IPv4	RDP	TCP
-	sgr-074351ceed6d865...	IPv4	HTTP	TCP
-	sgr-088179ec92bf2af90	IPv4	TCP personalizado	TCP
-	sgr-0e4d8576319958...	IPv4	TCP personalizado	TCP

Instalando o Azure Data Studio

O Azure Data Studio é uma ferramenta leve e multiplataforma de gerenciamento e desenvolvimento de dados com conectividade com bancos de dados locais e na nuvem populares. O Azure Data Studio oferece suporte a Windows, macOS e Linux, com capacidade imediata de conexão ao Azure SQL e ao SQL Server.

Na pasta **ambiente** digite o comando para instalar o Azure Data Studio

Invoke-WebRequest -URI <https://go.microsoft.com/fwlink/?linkid=2247827> -OutFile "azure-data-studio.exe"

```
Administrator: Windows PowerShell
PS C:\Users\Administrator\Desktop\ambiente> dir

Directory: C:\Users\Administrator\Desktop\ambiente

Mode                LastWriteTime         Length Name
----                -----        ----- 
-a---    10/16/2023 10:44 PM      139144984 azure-data-studio.exe
-a---    10/16/2023  9:42 PM       6379936 SQL2019-SSEI-Expr.exe

PS C:\Users\Administrator\Desktop\ambiente> .
```

Execute o comando abaixo para inicializar o instalador

.\azure-data-studio.exe

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Setup - Azure Data Studio (User)

- □ X



License Agreement

Please read the following important information before continuing.

Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.

MICROSOFT SOFTWARE LICENSE TERMS

MICROSOFT AZURE DATA STUDIO

Microsoft Corporation ("Microsoft") grants you a nonexclusive, perpetual, royalty-free right to use, copy, and modify the software code provided by us ("Software Code"). You may not sublicense the Software Code or any use of it (except to your affiliates and to vendors to perform work on your behalf) through distribution, network access, service agreement, lease, rental, or otherwise. Unless applicable law gives you more rights, Microsoft reserves all other rights not expressly granted herein, whether by implication, estoppel or otherwise.

THE SOFTWARE CODE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL MICROSOFT OR ITS LICENSORS

I accept the agreement

I do not accept the agreement

Next >

Cancel

Setup - Azure Data Studio (User)

- □ X



Select Destination Location

Where should Azure Data Studio be installed?

Setup will install Azure Data Studio into the following folder.

To continue, click Next. If you would like to select a different folder, click Browse.

C:\Users\Administrator\AppData\Local\Programs\Azure Data Studio

Browse...

At least 615.5 MB of free disk space is required.

< Back

Next >

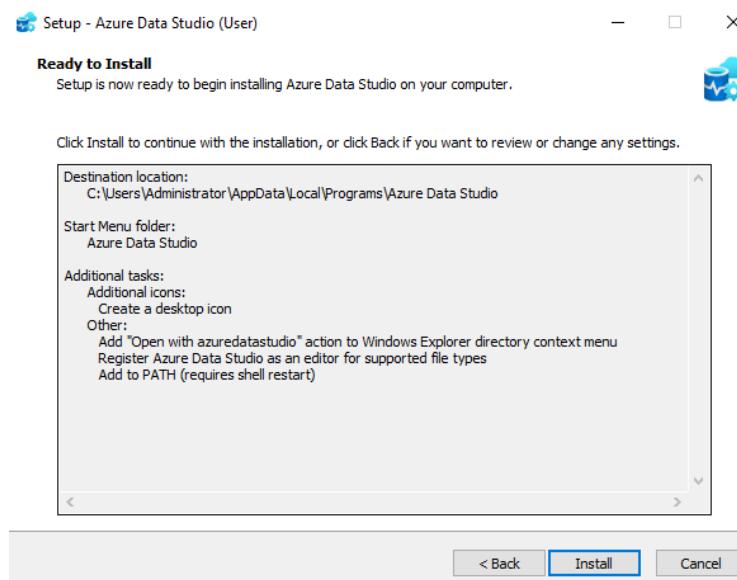
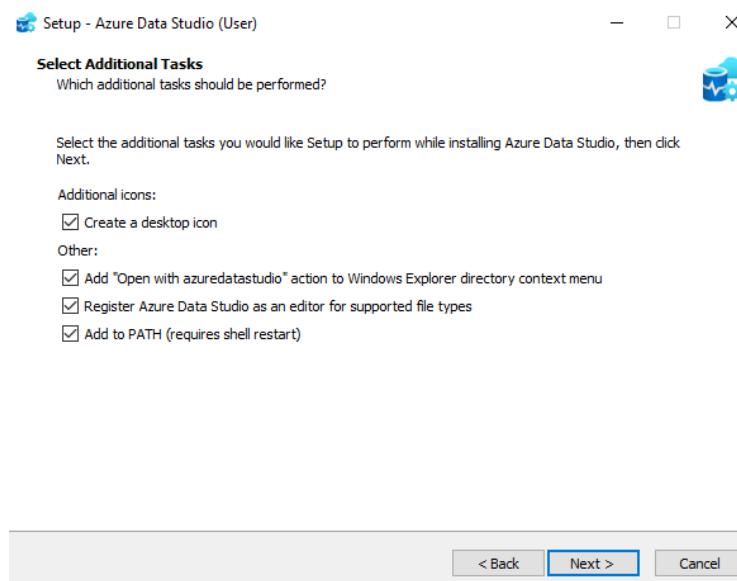
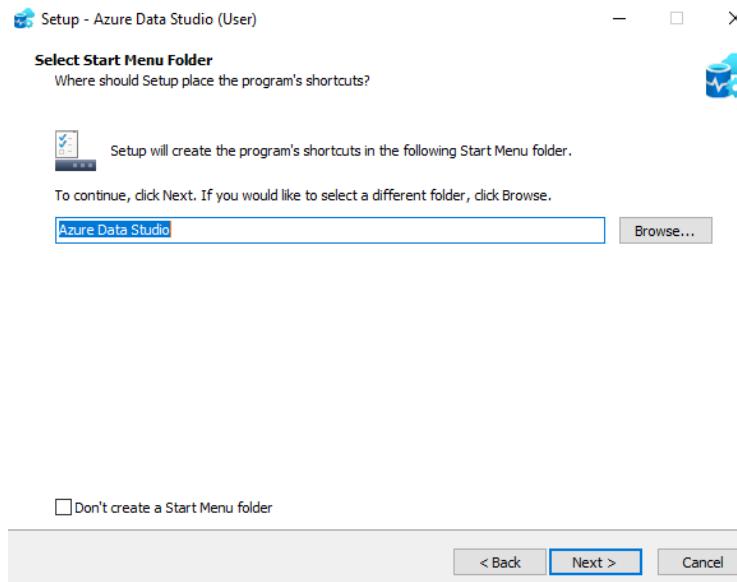
Cancel

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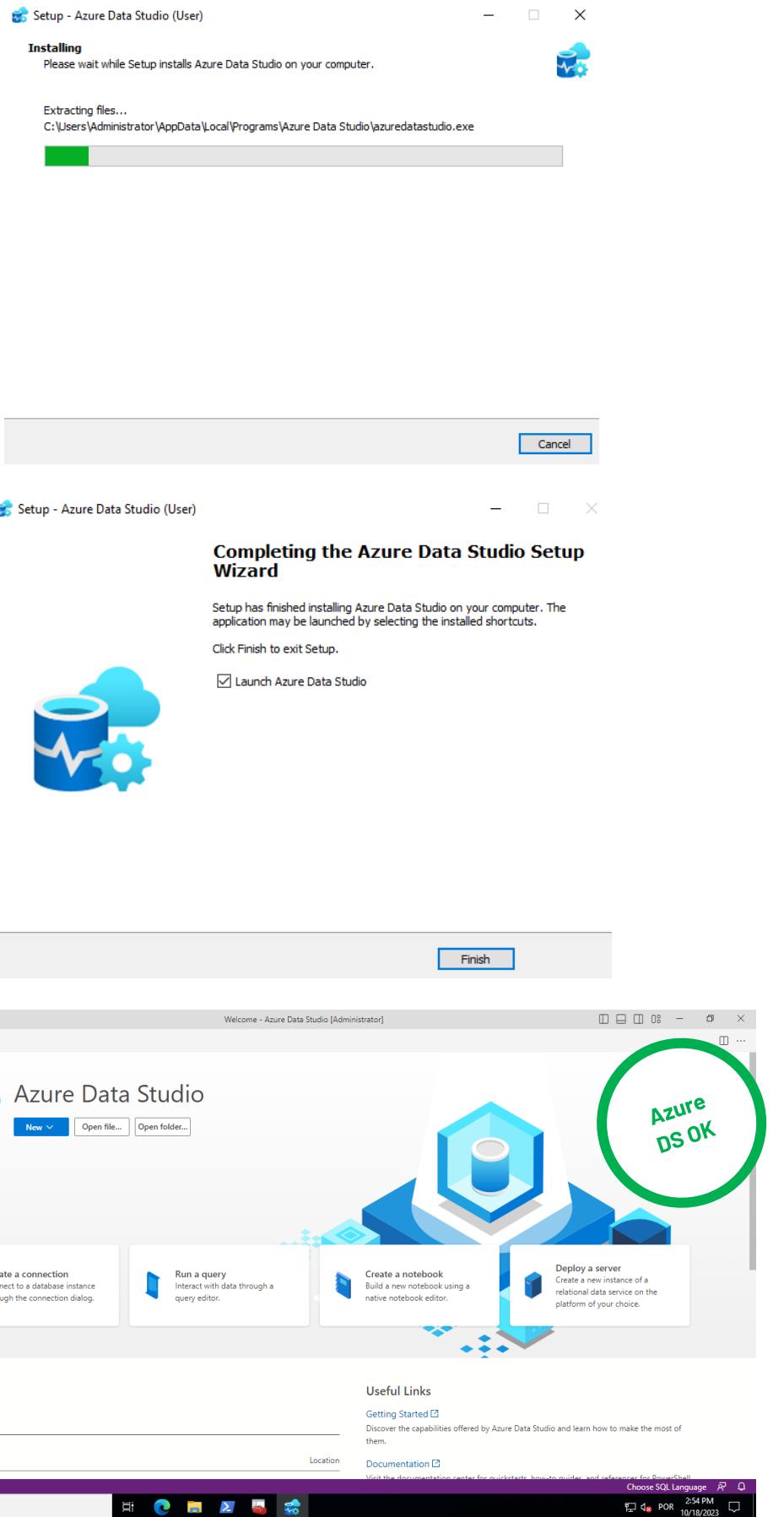


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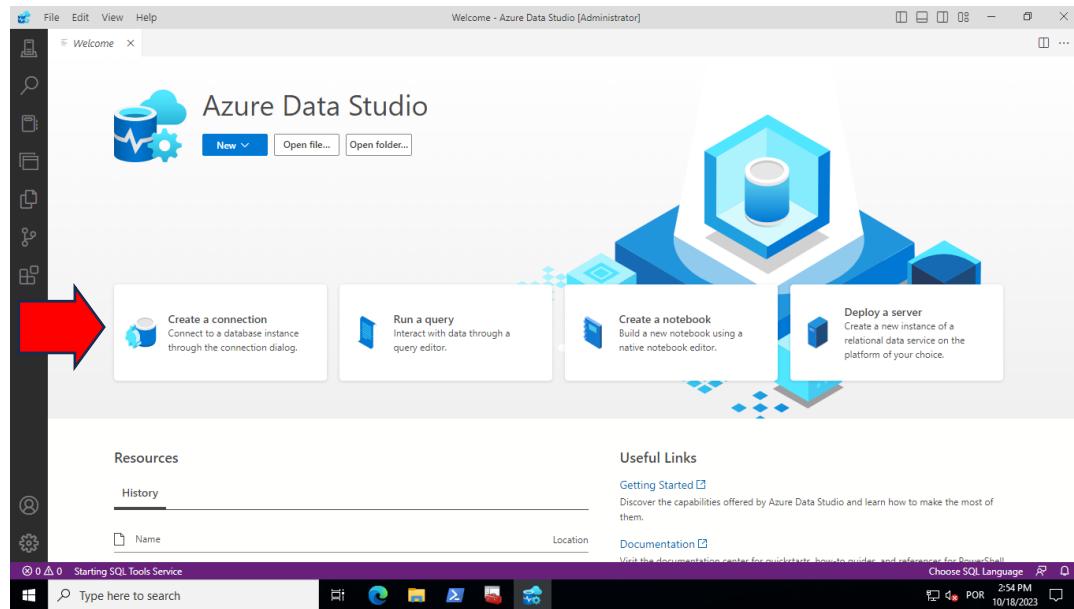
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Criando a conexão com SQL Server



Connection Details

Connection type	Microsoft SQL Server
Input type	<input checked="" type="radio"/> Parameters <input type="radio"/> Connection String
Server*	localhost
Authentication type	Windows Authentication
Database	<Default>
Encrypt	Mandatory (True)
Trust server certificate	False
Server group	<Default>
Name (optional)	

Advanced... Connect Cancel



Connection error

A connection was successfully established with the server, but then an error occurred during the login process. (provider: SSL Provider, error: 0 - The certificate chain was issued by an authority that is not trusted.)

Encryption was enabled on this connection, review your SSL and certificate configuration for the target SQL Server, or enable 'Trust server certificate' in the connection dialog.

Note: A self-signed certificate offers only limited protection and is not a recommended practice for production environments. Do you want to enable 'Trust server certificate' on this connection and retry? [Read More](#)

Copy details Enable Trust server certificate Close

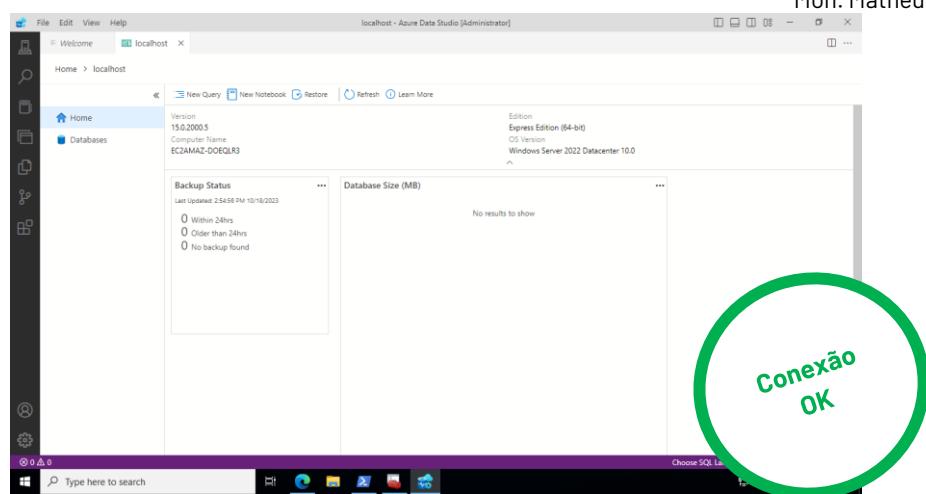


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Instalando o SSMS e conectando

O SSMS (SQL Server Management Studio) é um ambiente integrado para gerenciar qualquer infraestrutura de SQL, do SQL Server para o Banco de Dados SQL do Azure. O SSMS fornece ferramentas para configurar, monitorar e administrar instâncias do SQL Server e bancos de dados. Use o SSMS para implantar, monitorar e atualizar os componentes da camada de dados usados pelos seus aplicativos, além de criar consultas e scripts.

Use o SSMS para consultar, criar e gerenciar seus bancos de dados e data warehouses, independentemente de onde estiverem – no computador local ou na nuvem.

Para clientes que precisam de um complemento de plataforma cruzada para o SSMS para gerenciar SQL e outros bancos de dados do Azure, use o Azure Data Studio.

Para instalar acesse no navegador

[Download SQL Server Management Studio \(SSMS\) - SQL Server Management Studio \(SSMS\) | Microsoft Learn](#)

Learn / SQL / SQL Server /

Download SQL Server Management Studio (SSMS)

Article • 08/10/2023 • 49 contributors

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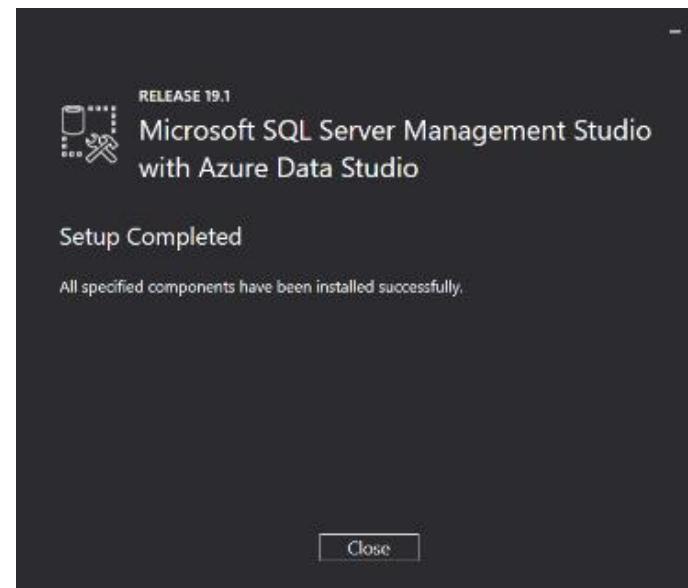
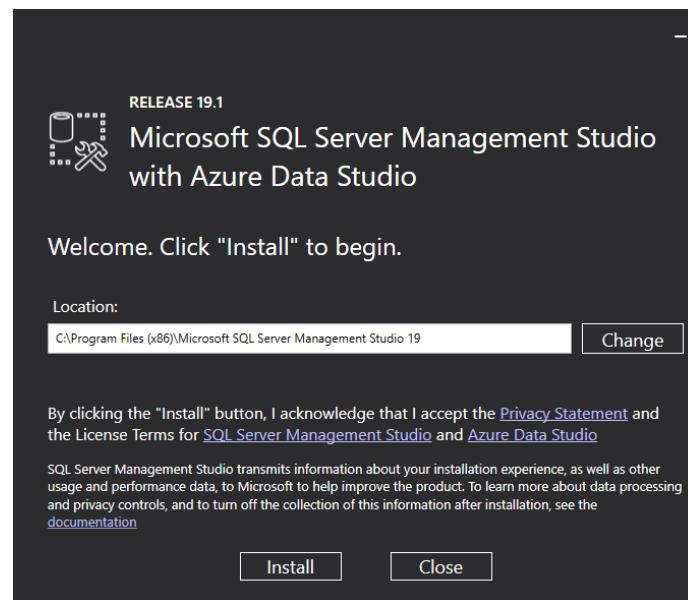
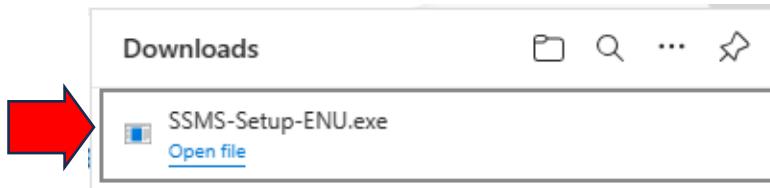
Download SSMS

[↓ Free Download for SQL Server Management Studio \(SSMS\) 19.1](#)



SSMS 19.1 is the latest general availability (GA) version. If you have a *preview* version of SSMS 19 installed, you should uninstall it before installing SSMS 19.1. If you have SSMS 19.x installed, installing SSMS 19.1 upgrades it to 19.1.

- Release number: 19.1
- Build number: 19.1.56.0
- Release date: May 24, 2023

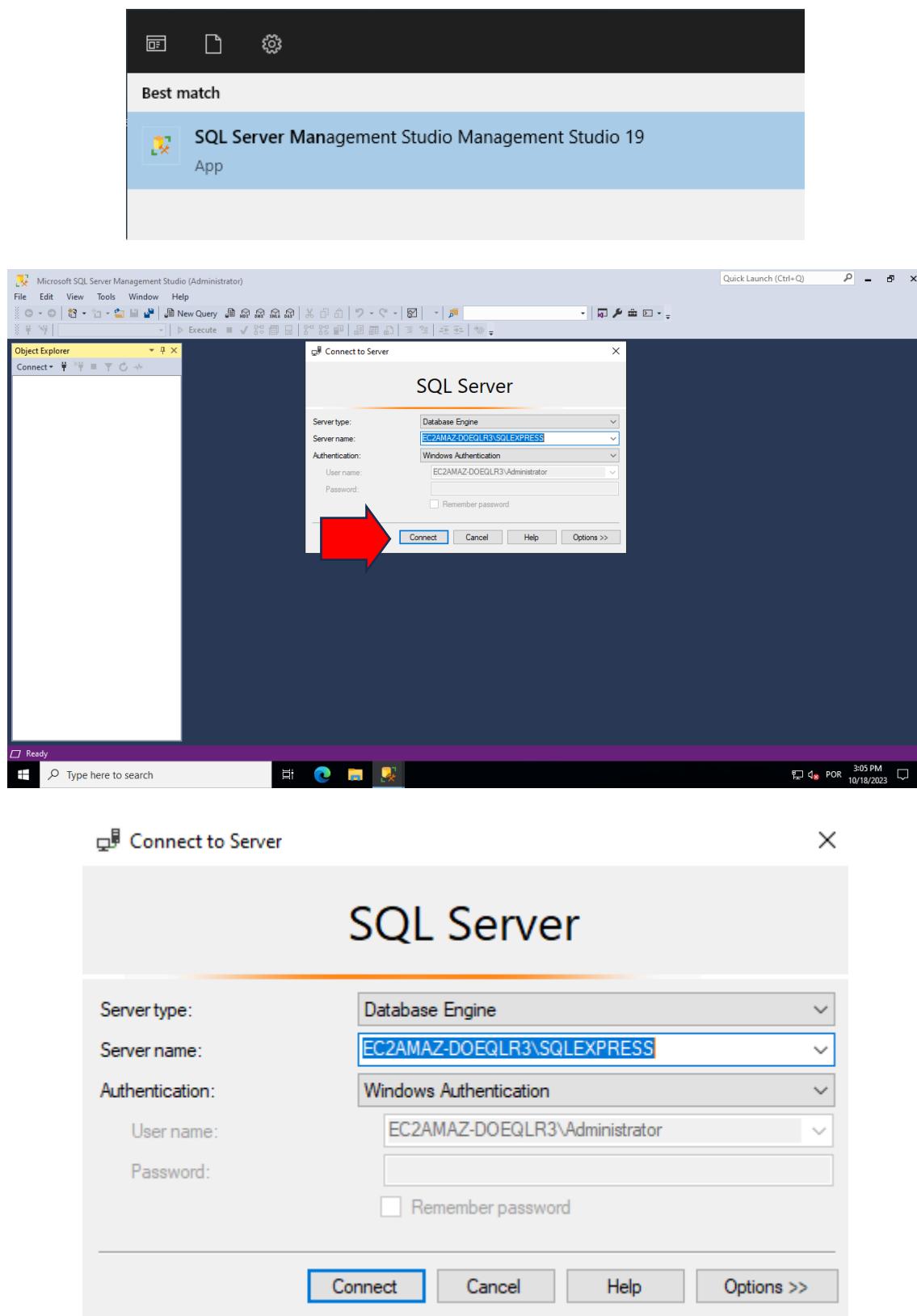


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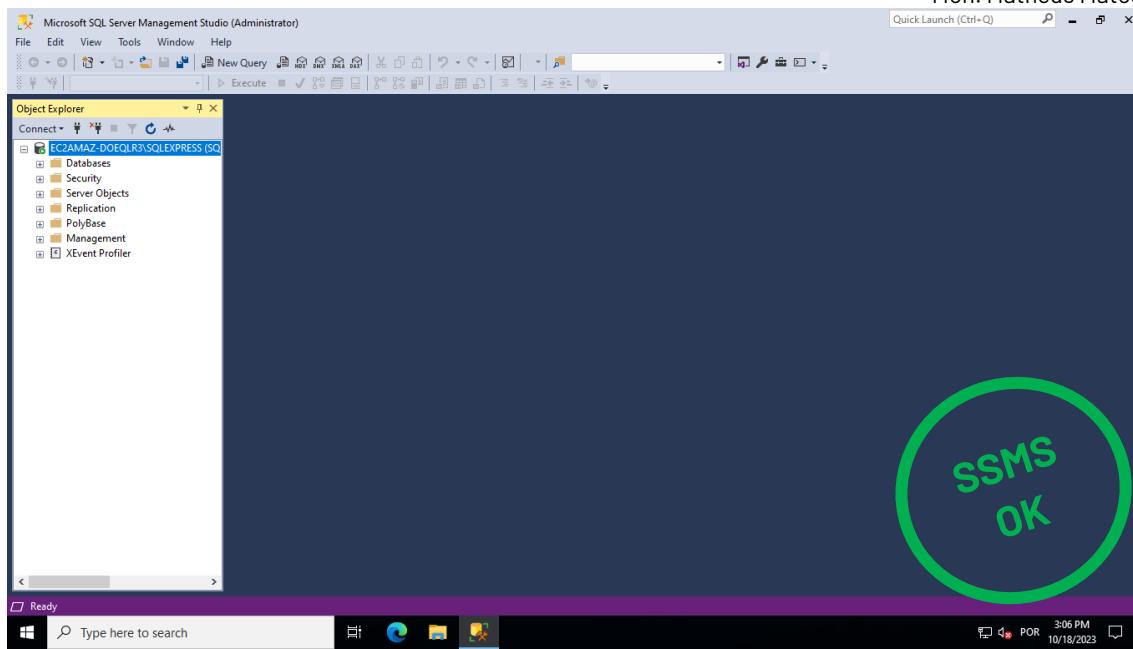


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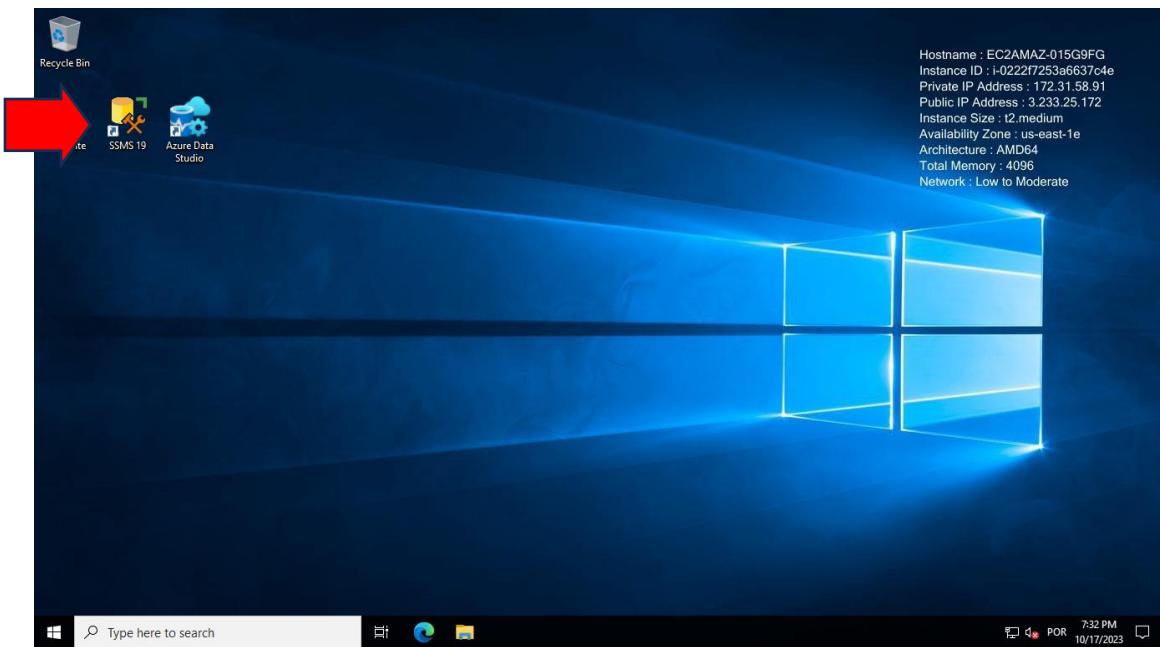
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Conectando remotamente o SQL Server

Para essa configuração é necessário acessar via SSMS na instância



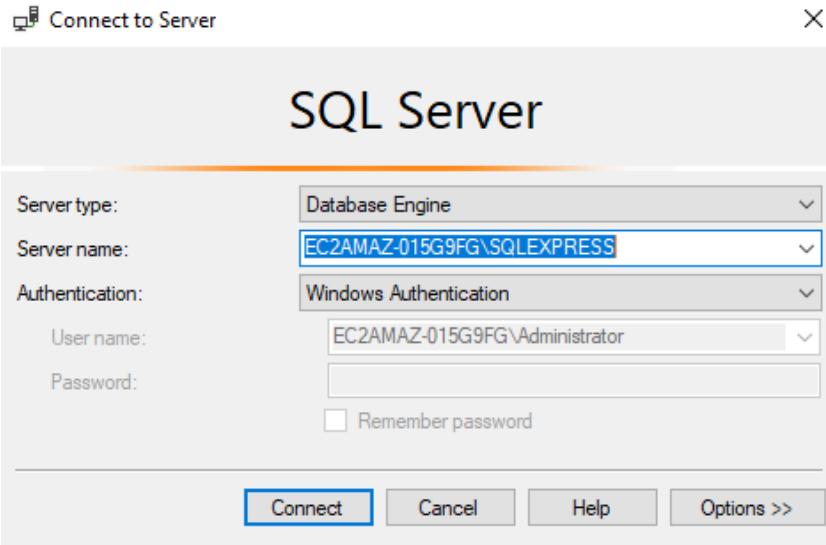
Se instalado de forma padrão, o acesso é autenticado pelo Windows (Windows Authentication)

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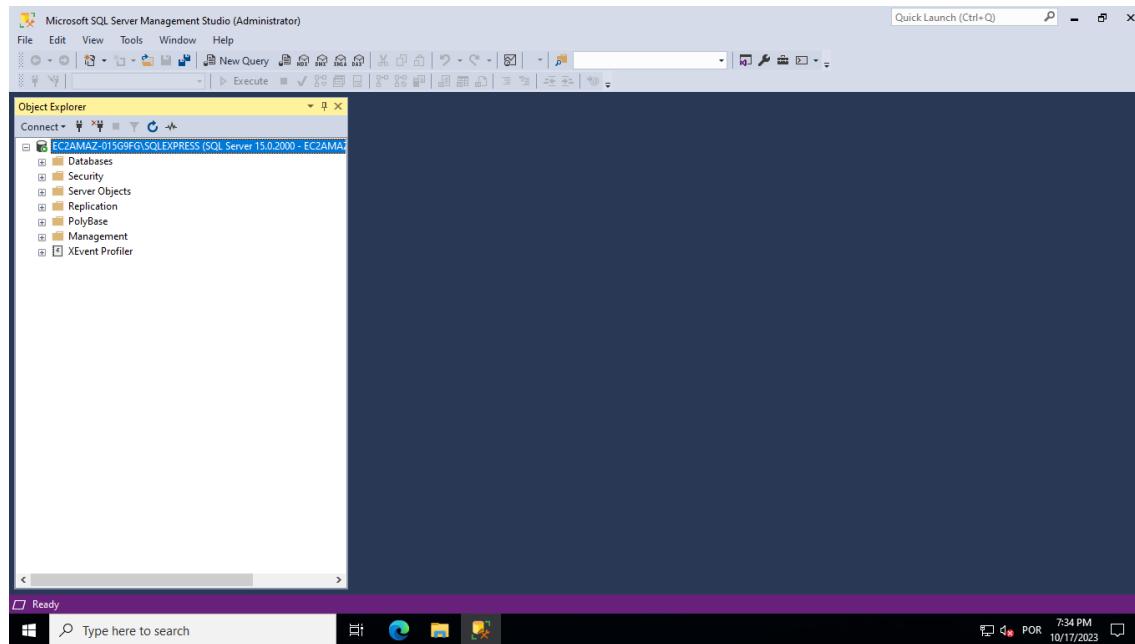
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Acesse o banco de dados



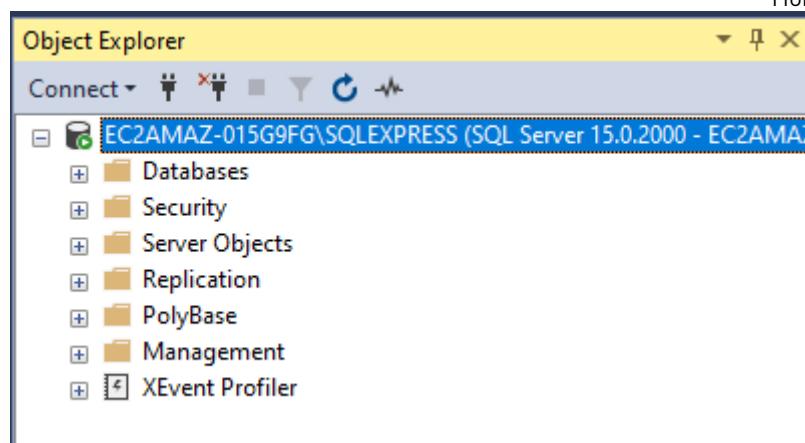
Vamos configurar o acesso ao servidor antes de alterar o usuário de administração

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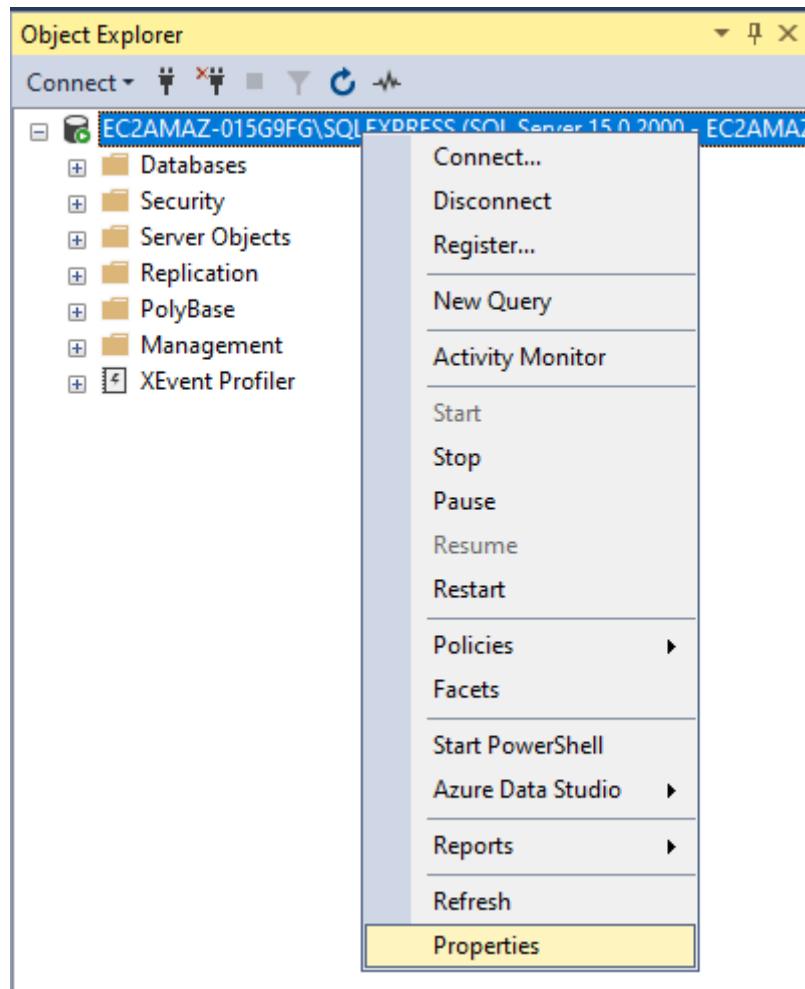
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Clique com o botão direito e clique me **Properties**



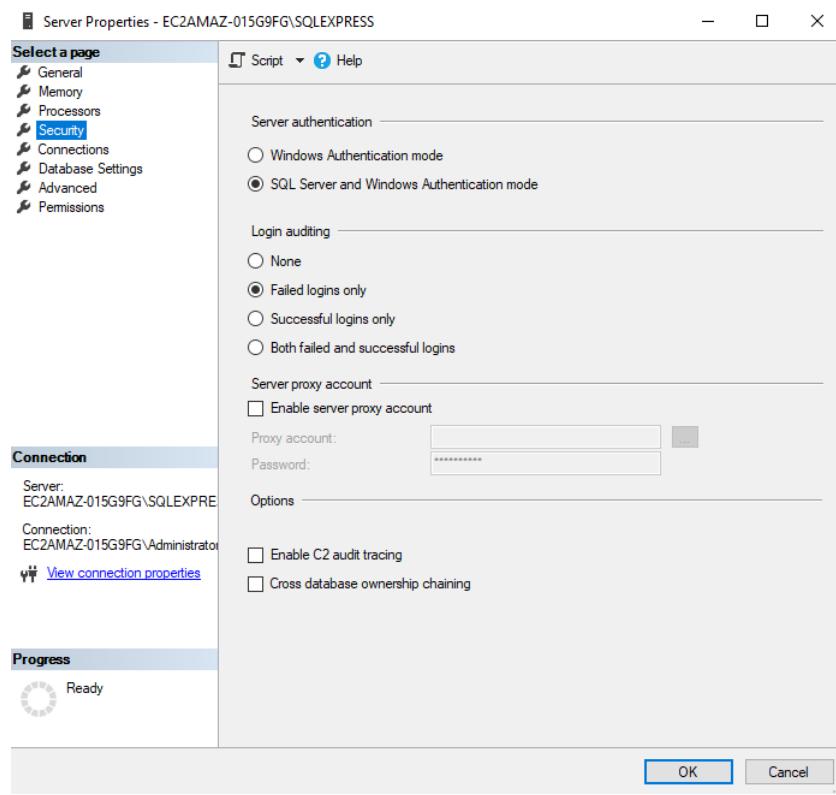
Vá na página **Security** configure o acesso e clique em OK.

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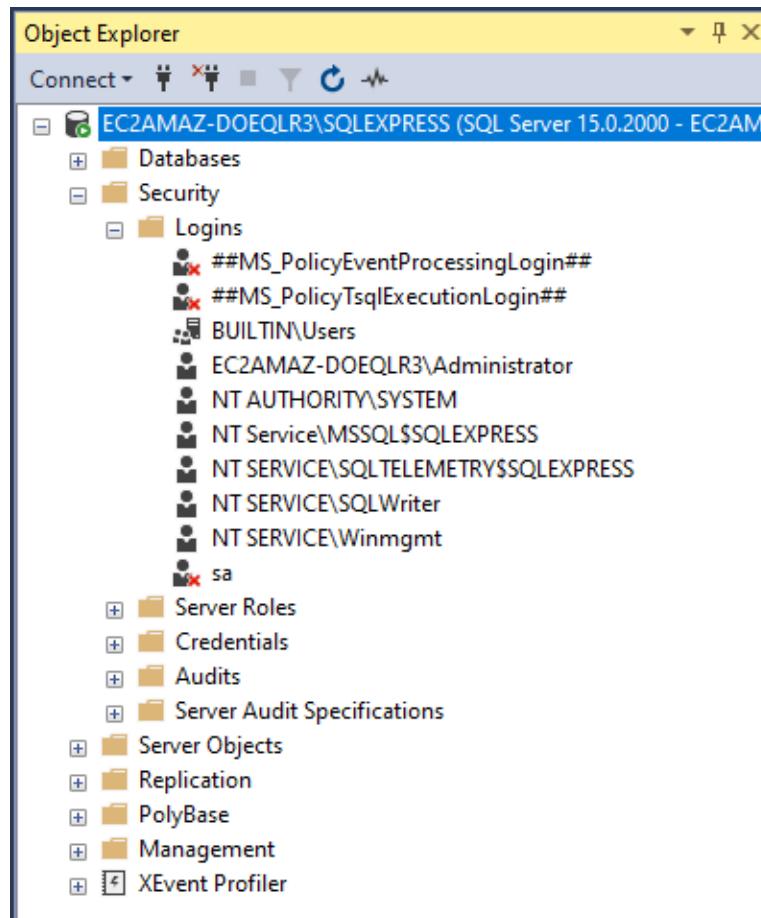
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Agora vamos configurar o usuário **sa**, dentro da instância do seu SGDB vá em **Security > Login**



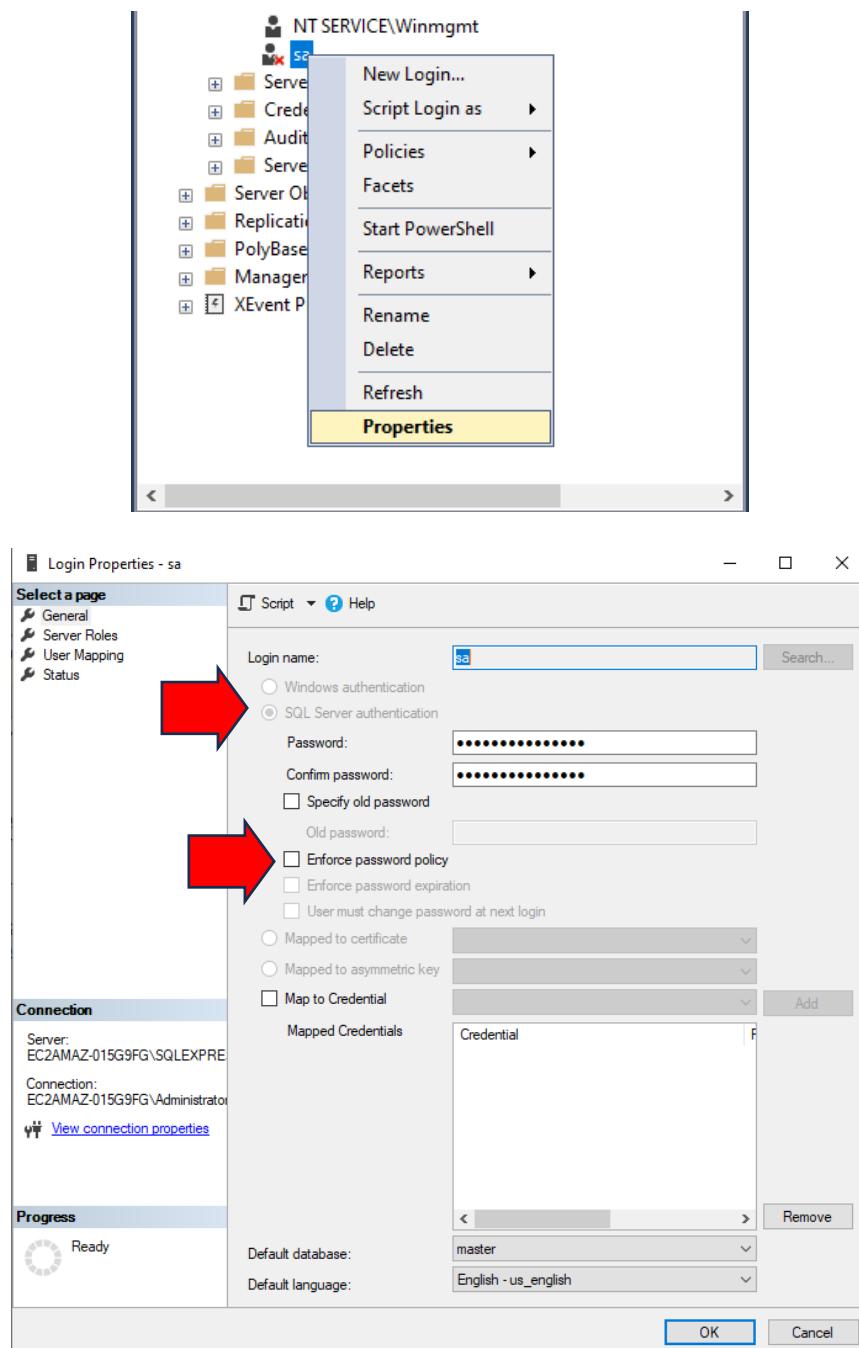
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Caso esteja apenas com autenticação pelo Windows o **Login\sa** estará com um **X** vermelho, indicando que o usuário está bloqueado para autenticação via SQL. Clique com o botão direito e vá em **Properties**



Selecione a opção SQL Server Authentication, desmarque a opção de Enforce password policy e crie uma senha para este usuário.

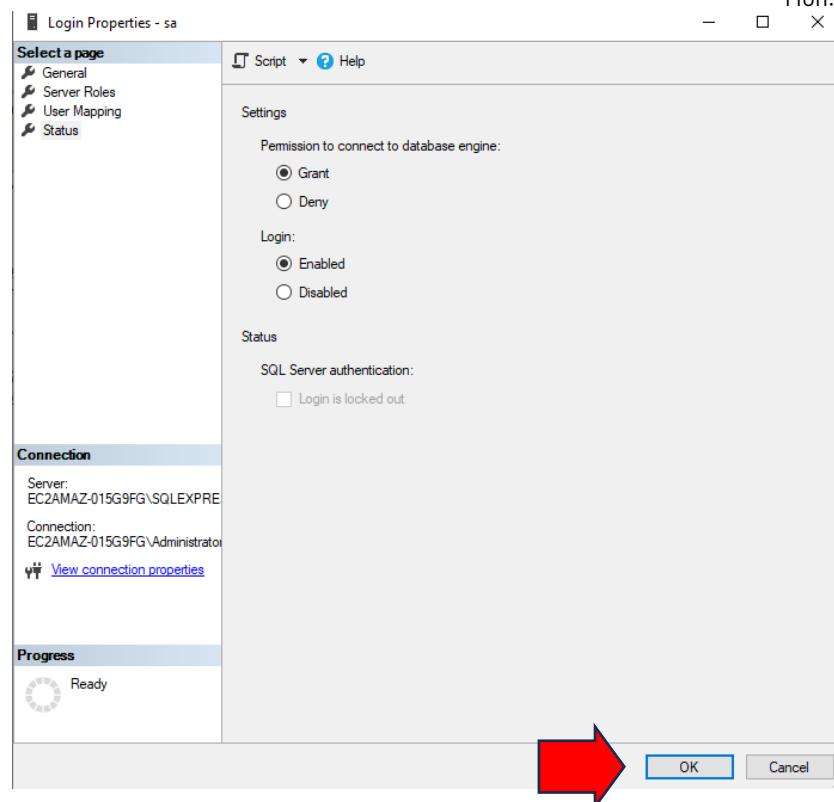
Vá para **Status** e selecione as opções **Permission to connect to database engine: Grant** e **Login: Enabled**. Clique em **OK**

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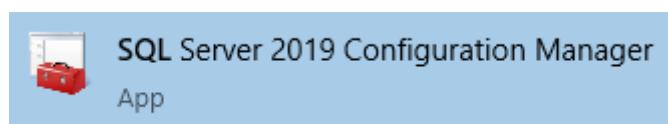
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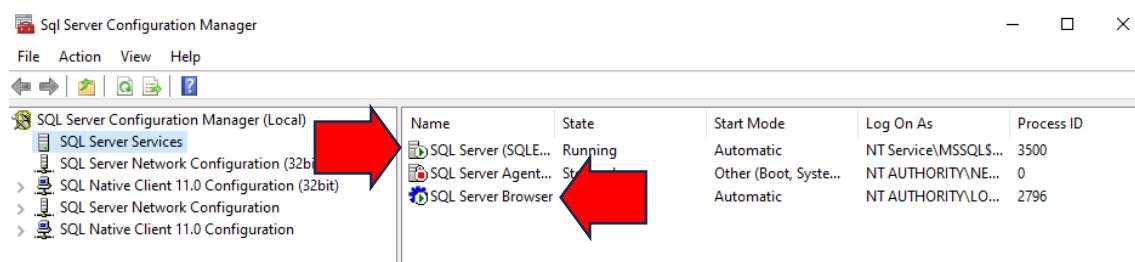
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Após isso, você precisará reiniciar o serviço do banco de dados.



Reinic peace os serviços do SQL Server e SQL Server Browser



Para a conexão você precisará do DNS público da instância onde está localizado o banco de dados ou o IPv4 público

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The screenshot shows the AWS CloudWatch Instances dashboard. At the top, there's a search bar labeled "Localizar Instance por atributo ou tag (case-sensitive)". Below it is a table titled "Instâncias (1/6) Informações" with columns: Name, ID de instância, Estado da instância, Tipo de inst..., Verificação de s..., Status do al..., Zona de dispon... . There are seven instances listed, with "windows" selected. The instance details pane below shows:

- ID de instância:** i-0222f7253a6637c4e (windows)
- Endereço IPv4 público:** 3.233.25.172 [endereço aberto]
- Estado da instância:** Executando
- Nome do DNS de IP privado (somente IPv4):** ip-172-31-58-91.ec2.internal
- DNS IPv4 público:** ec2-3-233-25-172.compute-1.amazonaws.com [endereço aberto]
- Endereços IP elásticos:** 3.233.25.172 [IP público]

Conectando via Azure Data Studio

The screenshot shows the Azure Data Studio interface. On the left, there's a sidebar with icons for Home, Search, Notebooks, Databases, and Connections. The main area has a "Welcome" tab open. It features four cards: "Create a connection" (with a red box around it), "Run a query", "Create a notebook", and "Deploy a server".

Below this is the "Connection Details" section, which is split into two panes. Both panes have identical fields:

Connection type	Microsoft SQL Server	Connection type	Microsoft SQL Server
Input type	<input checked="" type="radio"/> Parameters <input type="radio"/> Connection String	Input type	<input checked="" type="radio"/> Parameters <input type="radio"/> Connection String
Server*	3.233.25.172	Server*	ec2-3-233-25-172.compute-1.amazonaws.com
Authentication type	SQL Login	Authentication type	SQL Login
User name *	sa	User name *	sa
Password	*****	Password	*****
<input type="checkbox"/> Remember password		<input type="checkbox"/> Remember password	
Database	<Default>	Database	<Default>
Encrypt	Optional (False)	Encrypt	Optional (False)
Trust server certificate	<input type="radio"/> False	Trust server certificate	<input type="radio"/> False
Server group	<Default>	Server group	<Default>
Name (optional)		Name (optional)	

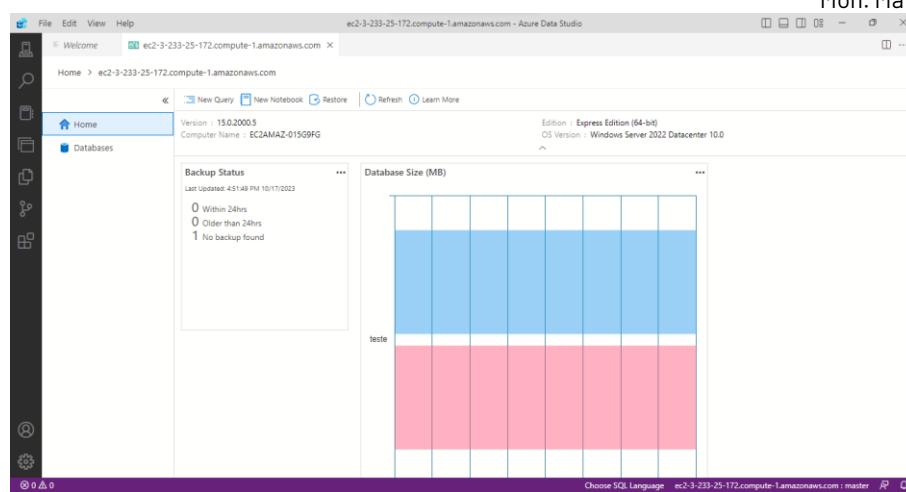
At the bottom of each pane are "Advanced..." buttons and "Connect" and "Cancel" buttons.

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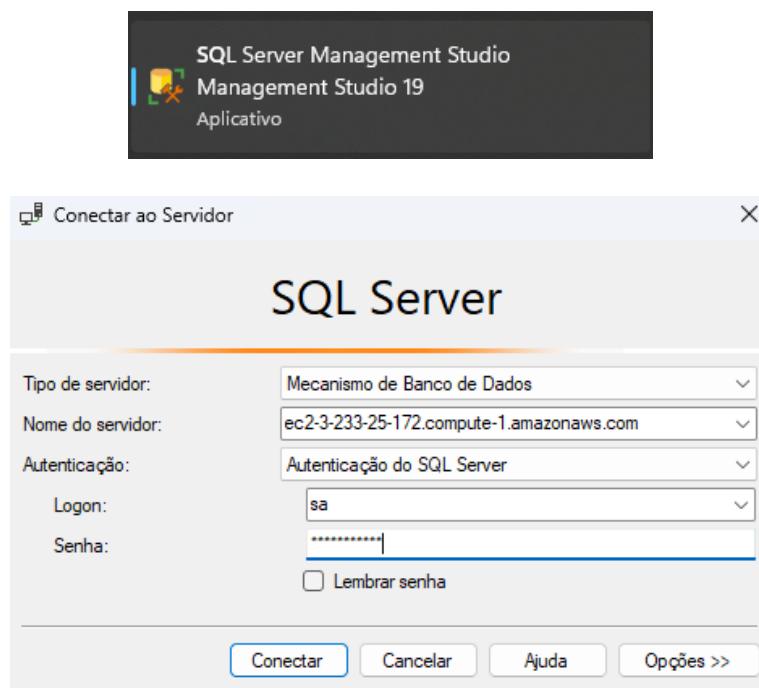
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Conectando via SSMS

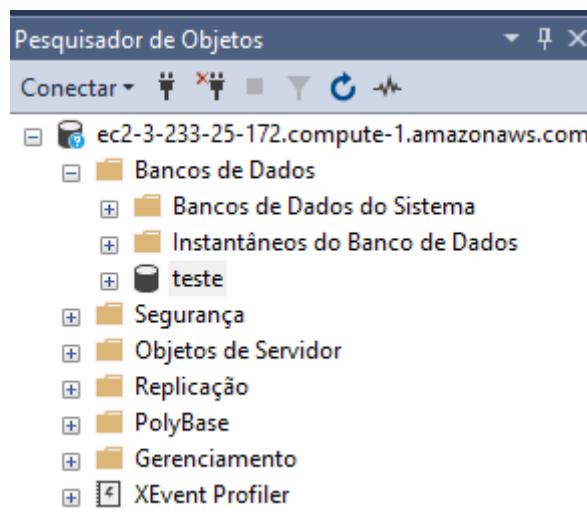
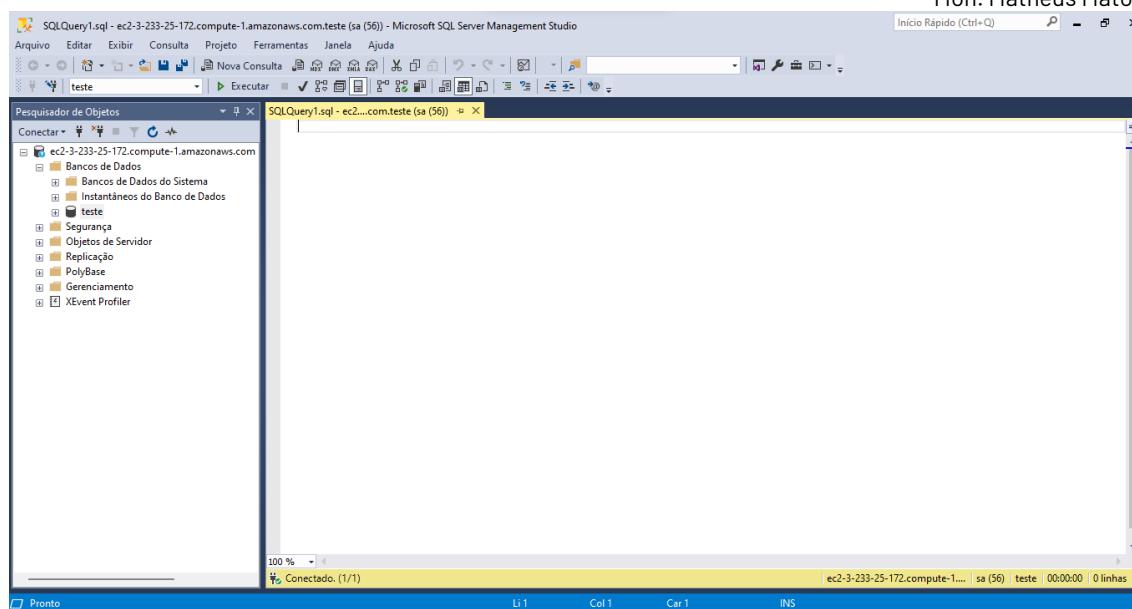


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O protocolo FTP

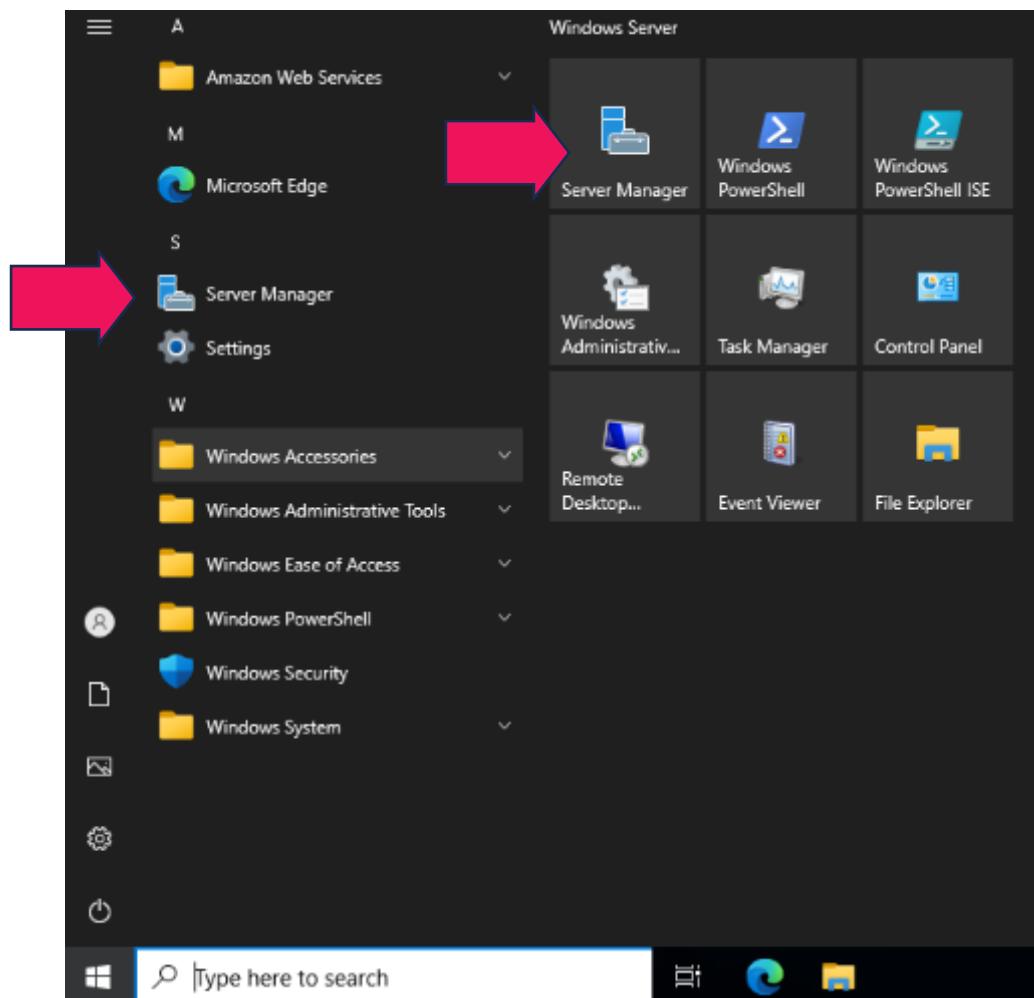
O FTP (File Transfer Protocol - Protocolo de Transferência de Arquivos) permite que desenvolvedores de sites promovam mudanças de maneira conveniente e segura, mesmo que você tenha que transferir muitos arquivos. Esse protocolo é uma forma de comunicação entre computadores que usam o TCP/IP, que é o protocolo padrão de comunicação da web.

O protocolo FTP permite que usuários autorizados possam fazer download e upload de arquivos de um servidor FTP, um computador que armazena os dados. Dessa forma, o FTP facilita a transferência de informações entre diferentes dispositivos.

A conexão FTP precisa de duas partes para estabelecer e se comunicar na rede. Para fazer isso, os usuários precisam de obter permissão quando fornecerem as credenciais para o servidor FTP. Alguns servidores FTP públicos acabam não exigindo credenciais para acessar os seus arquivos. Essa prática é comum dentro do que é chamado de "FTP anônimo".

Configurando o servidor FTP no Windows Server

Habilitando o Web Server (IIS) e adicionando a feature de FTP

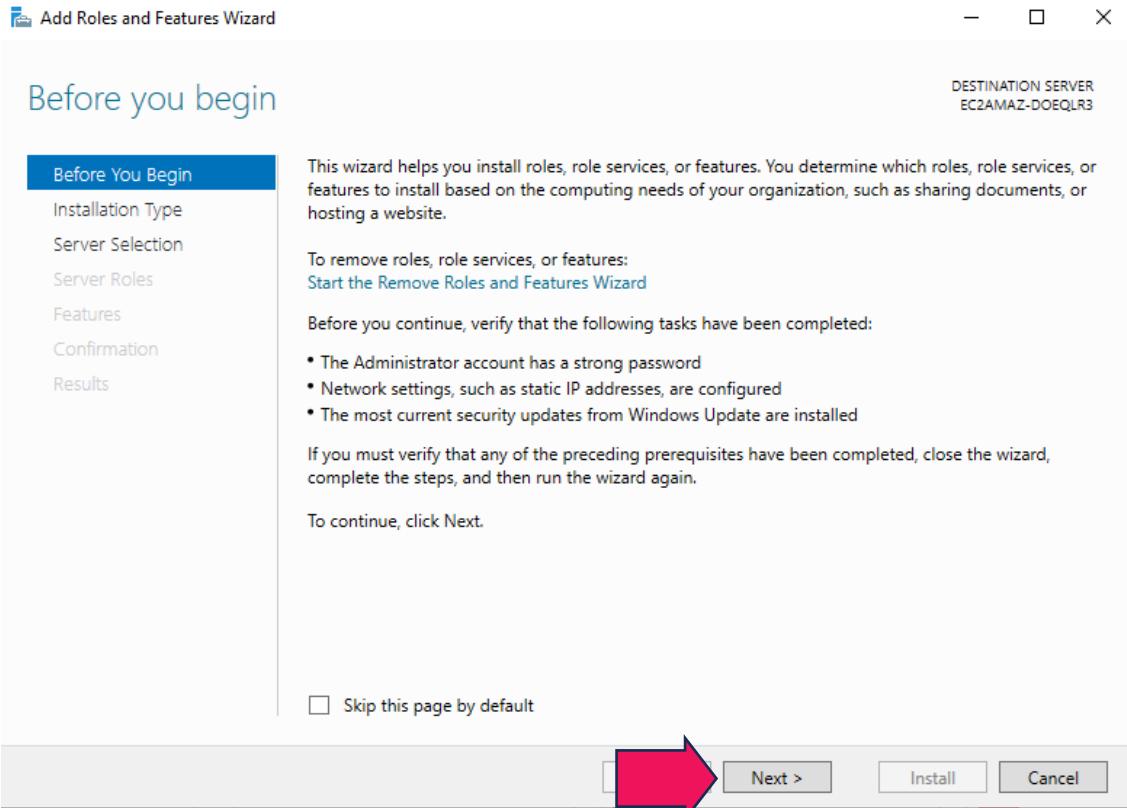
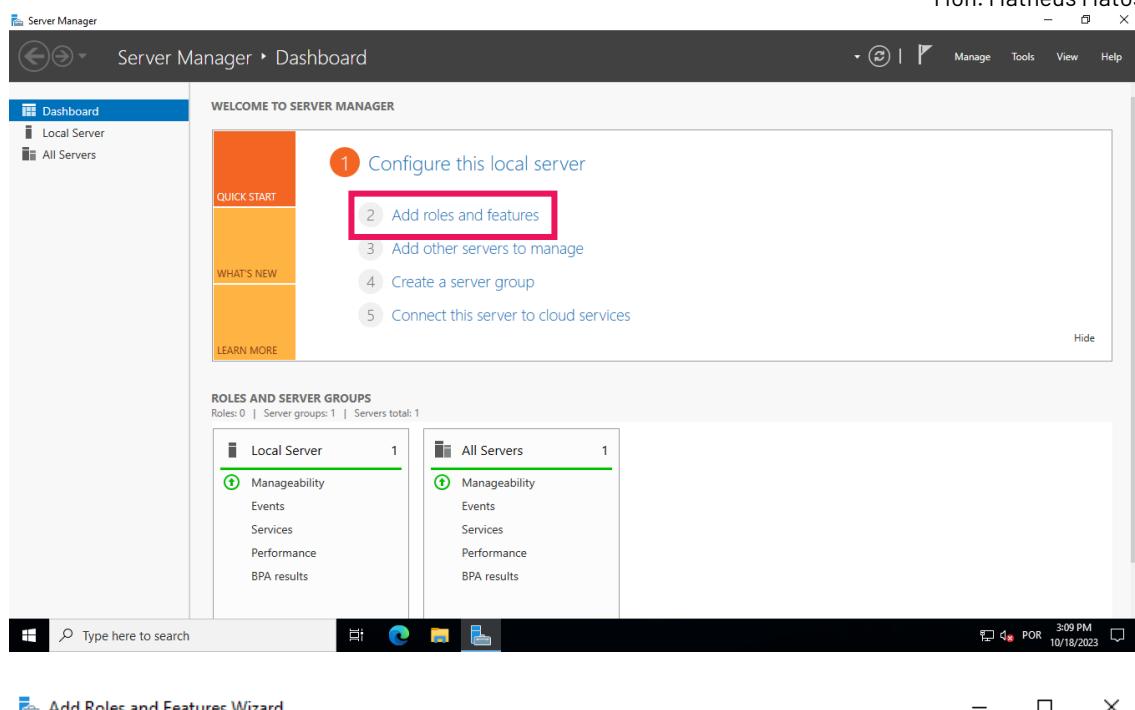


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Add Roles and Features Wizard

- □ ×

Select installation type

DESTINATION SERVER
EC2AMAZ-DOEQLR3

Before You Begin

Installation Type

Server Selection

Server Roles

Features

Confirmation

Results

Select the installation type. You can install roles and features on a running physical computer or virtual machine, or on an offline virtual hard disk (VHD).

Role-based or feature-based installation

Configure a single server by adding roles, role services, and features.

Remote Desktop Services installation

Install required role services for Virtual Desktop Infrastructure (VDI) to create a virtual machine-based or session-based desktop deployment.



Add Roles and Features Wizard

- □ ×

Select destination server

DESTINATION SERVER
EC2AMAZ-DOEQLR3

Before You Begin

Installation Type

Server Selection

Server Roles

Features

Confirmation

Results

Select a server or a virtual hard disk on which to install roles and features.

Select a server from the server pool

Select a virtual hard disk

Server Pool

Name	IP Address	Operating System
EC2AMAZ-DOEQLR3	172.31.91.4	Microsoft Windows Server 2022 Datacenter

1 Computer(s) found

This page shows servers that are running Windows Server 2012 or a newer release of Windows Server, and that have been added by using the Add Servers command in Server Manager. Offline servers and newly-added servers from which data collection is still incomplete are not shown.



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Add Roles and Features Wizard

— □ ×

Select server roles

Before You Begin

Installation Type

Server Selection

Server Roles

Features

Confirmation

Results

Select one or more roles to install on the selected server.

Roles

- Active Directory Domain Services
- Active Directory Federation Services
- Active Directory Lightweight Directory Services
- Active Directory Rights Management Services
- Device Health Attestation
- DHCP Server
- DNS Server
- Fax Server
- File and Storage Services (1 of 12 installed)
- Host Guardian Service
- Hyper-V
- Network Controller
- Network Policy and Access Services
- Print and Document Services
- Remote Access
- Remote Desktop Services
- Volume Activation Services
- Web Server (IIS)
- Windows Deployment Services
- Windows Server Update Services

Description

Web Server (IIS) provides a reliable, manageable, and scalable Web application infrastructure.

< Previous

Next >

Install

Cancel

Add Roles and Features Wizard

DESTINATION SERVER
EC2AMAZ-DOEQLR3

×

Select server roles

Before You Begin

Installation Type

Server Selection

Server Roles

Features

Confirmation

Results

Add Roles and Features Wizard

Add features that are required for Web Server (IIS)?

The following tools are required to manage this feature, but do not have to be installed on the same server.

- ▲ Web Server (IIS)
 - ◀ Management Tools
 - [Tools] IIS Management Console

Include management tools (if applicable)

Add Features

Cancel

< Previous

Next >

Install

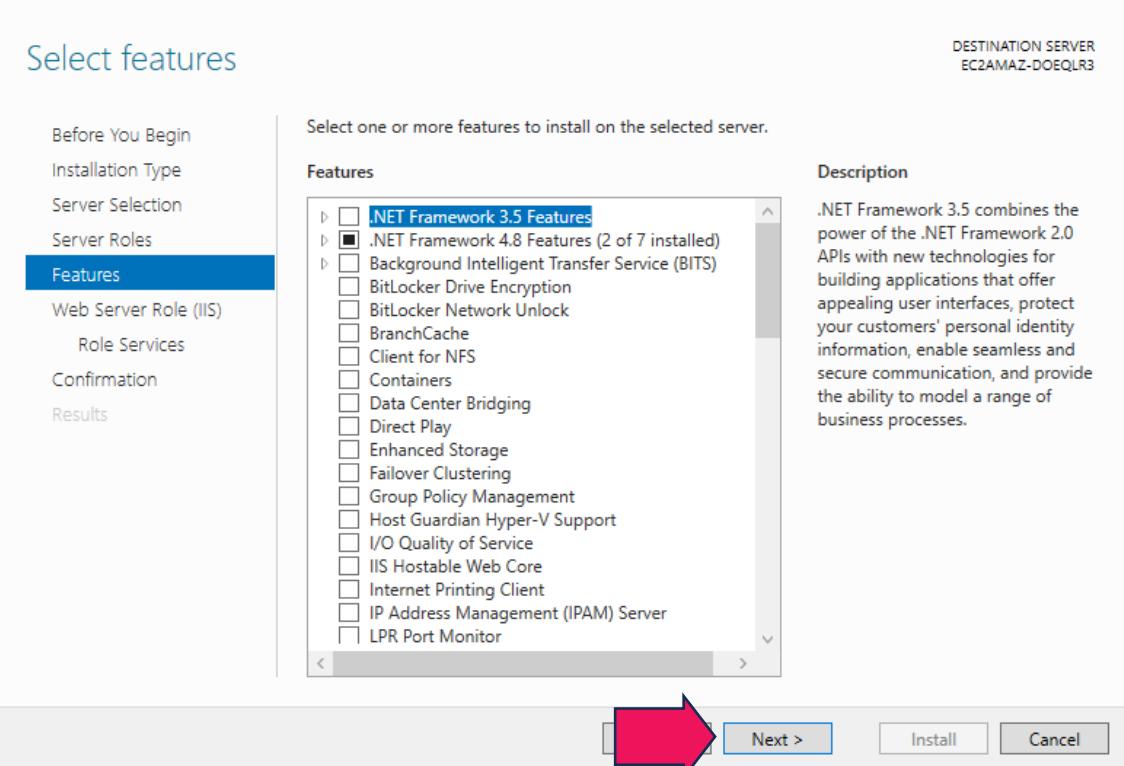
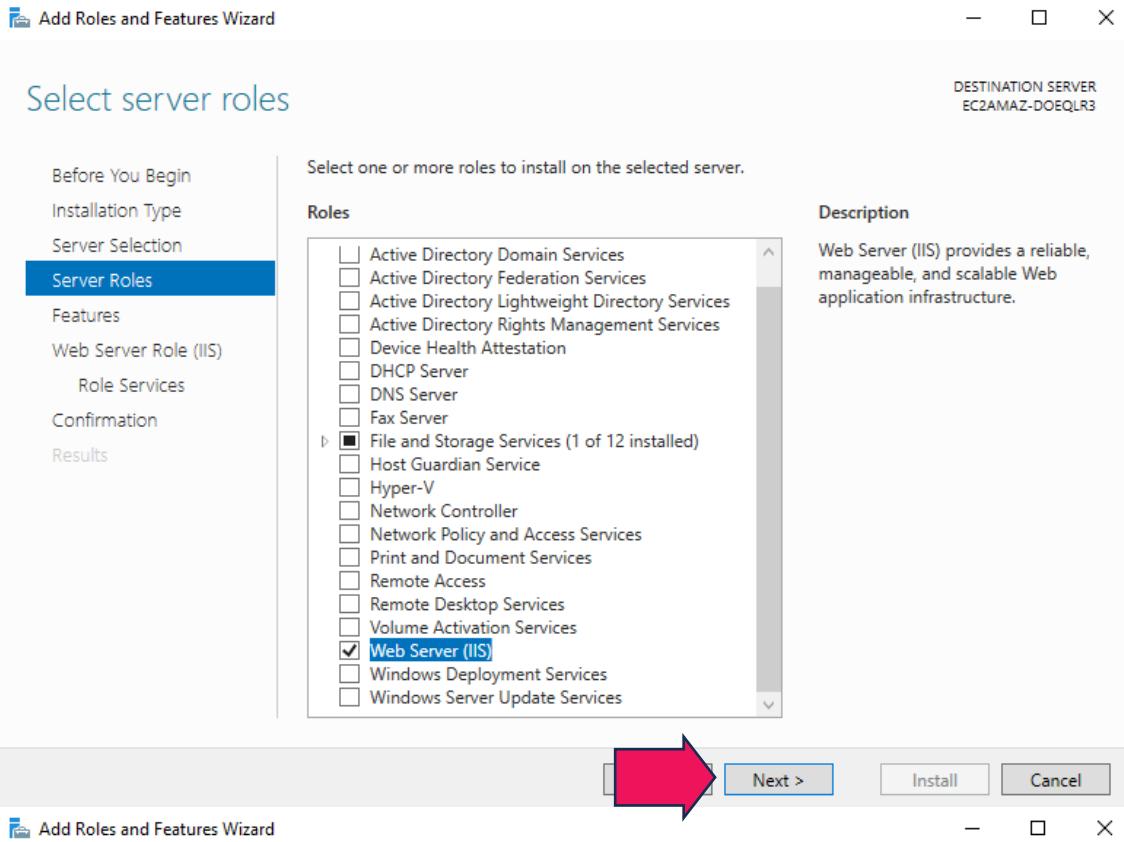
Cancel

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Add Roles and Features Wizard

— □ ×

Web Server Role (IIS)

DESTINATION SERVER
EC2AMAZ-DOEQLR3

Before You Begin

Installation Type

Server Selection

Server Roles

Features

Web Server Role (IIS)

Role Services

Confirmation

Results

Web servers are computers that let you share information over the Internet, or through intranets and extranets. The Web Server role includes Internet Information Services (IIS) 10.0 with enhanced security, diagnostic and administration, a unified Web platform that integrates IIS 10.0, ASP.NET, and Windows Communication Foundation.

- The default installation for the Web Server (IIS) role includes the installation of role services that enable you to serve static content, make minor customizations (such as default documents and HTTP errors), monitor and log server activity, and configure static content compression.

More information about Web Server IIS

Next >

Install

Cancel

Add Roles and Features Wizard

— □ ×

Select role services

DESTINATION SERVER
EC2AMAZ-DOEQLR3

Before You Begin

Installation Type

Server Selection

Server Roles

Features

Web Server Role (IIS)

Role Services

Confirmation

Results

Select the role services to install for Web Server (IIS)

Role services

<input checked="" type="checkbox"/> Security	FTP Server enables the transfer of files between a client and server by using the FTP protocol. Users can establish an FTP connection and transfer files by using an FTP client or FTP-enabled Web browser.
<input checked="" type="checkbox"/> Request Filtering	
<input type="checkbox"/> Basic Authentication	
<input type="checkbox"/> Centralized SSL Certificate Support	
<input type="checkbox"/> Client Certificate Mapping Authentication	
<input type="checkbox"/> Digest Authentication	
<input type="checkbox"/> IIS Client Certificate Mapping Authentication	
<input type="checkbox"/> IP and Domain Restrictions	
<input type="checkbox"/> URL Authorization	
<input type="checkbox"/> Windows Authentication	
<input type="checkbox"/> Application Development	
<input checked="" type="checkbox"/> FTP Server	
<input checked="" type="checkbox"/> FTP Service	
<input type="checkbox"/> FTP Extensibility	
<input checked="" type="checkbox"/> Management Tools	
<input checked="" type="checkbox"/> IIS Management Console	
<input type="checkbox"/> IIS 6 Management Compatibility	
<input type="checkbox"/> IIS Management Scripts and Tools	
<input type="checkbox"/> Management Service	

Description

FTP Server enables the transfer of files between a client and server by using the FTP protocol. Users can establish an FTP connection and transfer files by using an FTP client or FTP-enabled Web browser.

Next >

Install

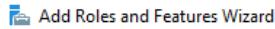
Cancel

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— □ ×

Confirm installation selections

DESTINATION SERVER
EC2AMAZ-DOEQLR3

Before You Begin

Installation Type

Server Selection

Server Roles

Features

Web Server Role (IIS)

Role Services

Confirmation

Results

To install the following roles, role services, or features on selected server, click Install.

Restart the destination server automatically if required

Optional features (such as administration tools) might be displayed on this page because they have been selected automatically. If you do not want to install these optional features, click Previous to clear their check boxes.

Web Server (IIS)

Web Server

Common HTTP Features

Static Content

Default Document

Directory Browsing

HTTP Errors

Security

Request Filtering

Health and Diagnostics

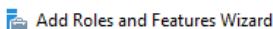
Export configuration settings
Specify an alternate source path

< Previous

Next

Install

Cancel



— □ ×

Installation progress

DESTINATION SERVER
EC2AMAZ-DOEQLR3

Before You Begin

Installation Type

Server Selection

Server Roles

Features

Web Server Role (IIS)

Role Services

Confirmation

Results

View installation progress

i Feature installation

Installation succeeded on EC2AMAZ-DOEQLR3.

Web Server (IIS)

Web Server

Common HTTP Features

Static Content

Default Document

Directory Browsing

HTTP Errors

Security

Request Filtering

Health and Diagnostics

HTTP Logging

i You can close this wizard without interrupting running tasks. View task progress or open this page again by clicking Notifications in the command bar, and then Task Details.

Export configuration settings

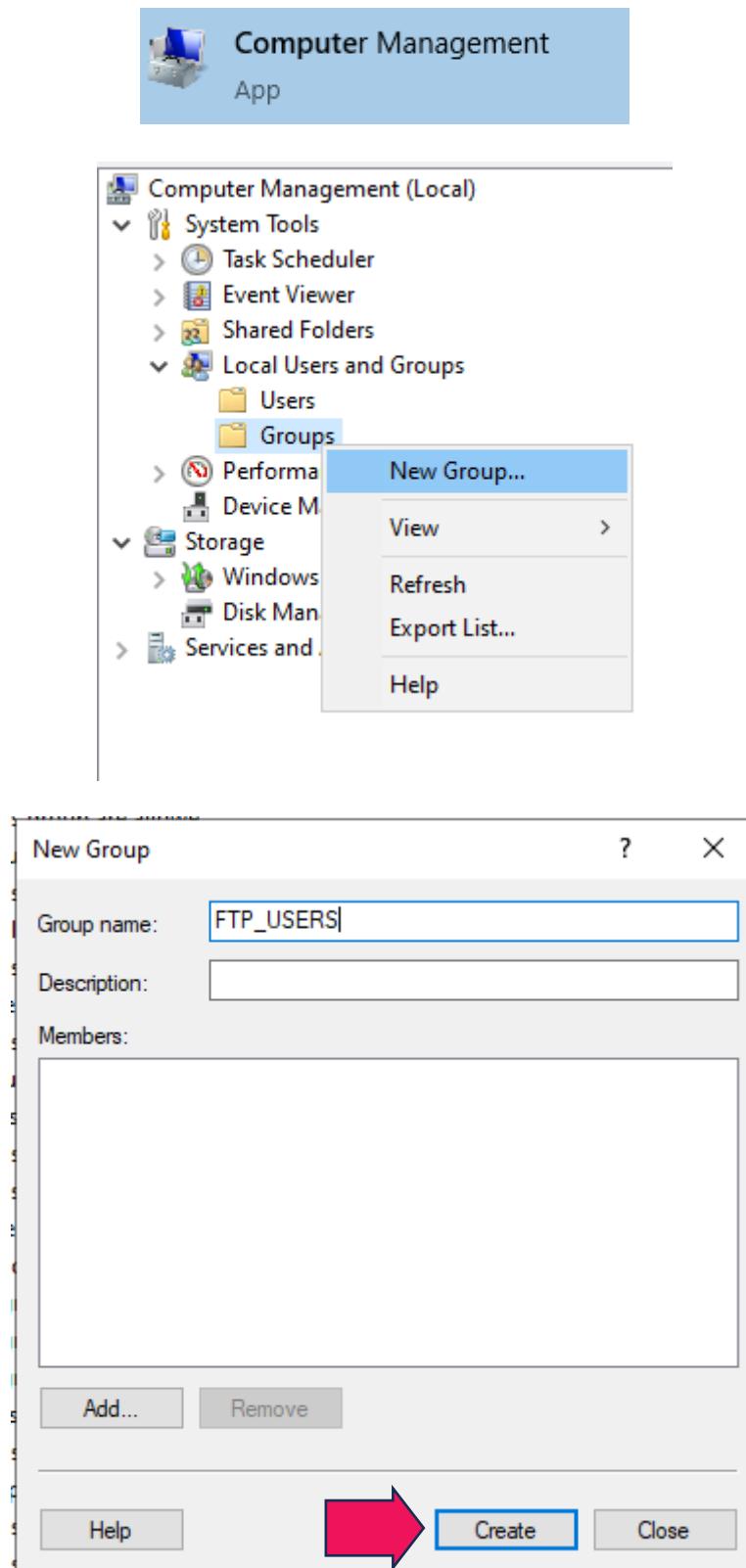
< Previous

Next

Close

Cancel

Criando grupo de usuário e usuário de acesso no FTP



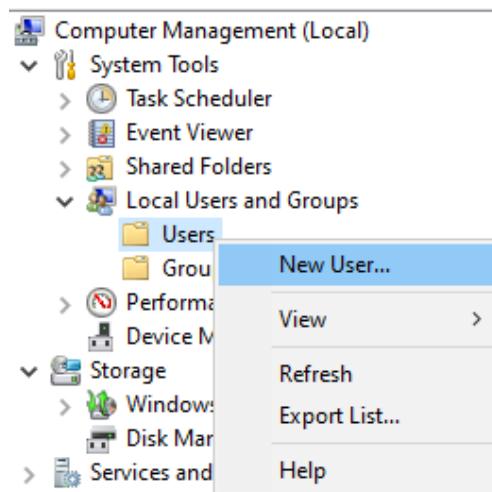
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The screenshot shows the Windows Server Computer Management interface. The left navigation pane is titled "Computer Management (Local)" and includes sections for System Tools, Task Scheduler, Event Viewer, Shared Folders, Local Users and Groups, Storage, Windows Server Backup, Disk Management, and Services and Applications. The "Local Users and Groups" section is expanded, showing sub-sections for Users and Groups. The main pane displays a list of built-in groups with their descriptions. A red box highlights the "Users" section under Local Users and Groups. The bottom status bar shows the date and time as 10/18/2023 at 3:11 PM.



The screenshot shows the "New User" dialog box. The "User name:" field contains "urubu100". The "Full name:" and "Description:" fields are empty. The "Password:" field contains a masked password. The "Confirm password:" field also contains a masked password. Below these fields are four checkboxes: "User must change password at next logon", "User cannot change password", "Password never expires", and "Account is disabled". At the bottom of the dialog are "Help", "Create" (highlighted with a large red arrow), and "Close" buttons.

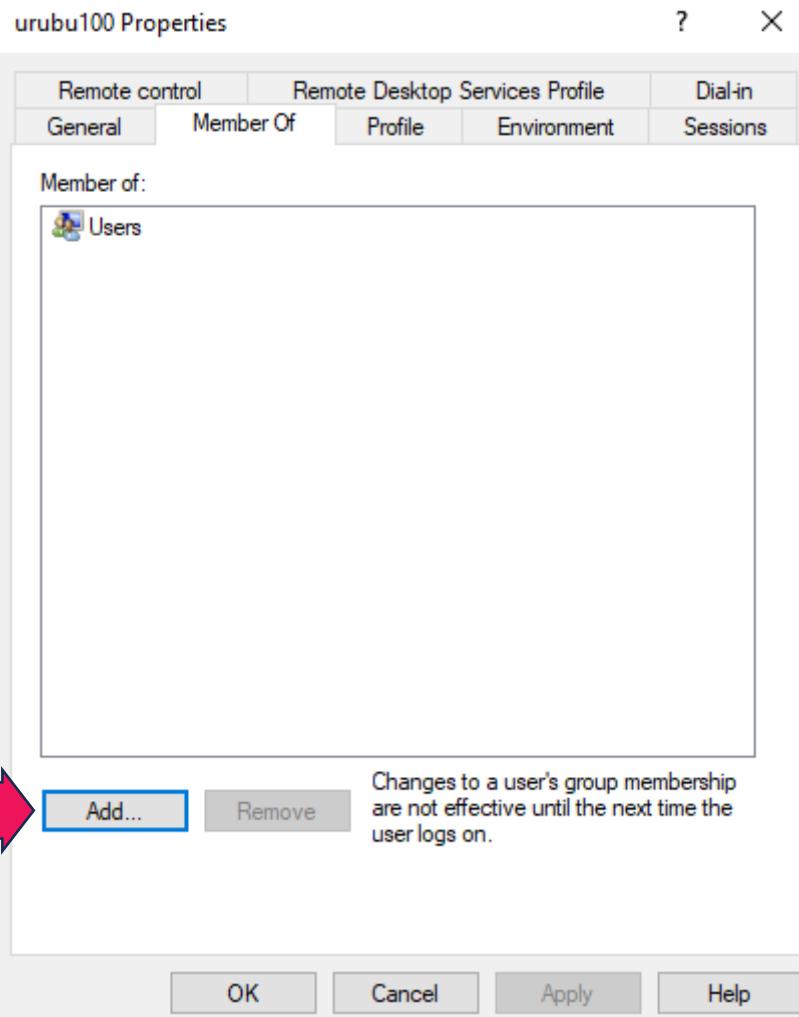
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Name	Full Name	Description
Administrator		Built-in account for administering...
DefaultAcco...		A user account managed by the s...
Guest		Built-in account for guest access t...
urubu100	urubu100	Set Password... All Tasks > Delete Rename Properties Help
WDAGUtility		A user account managed and use...

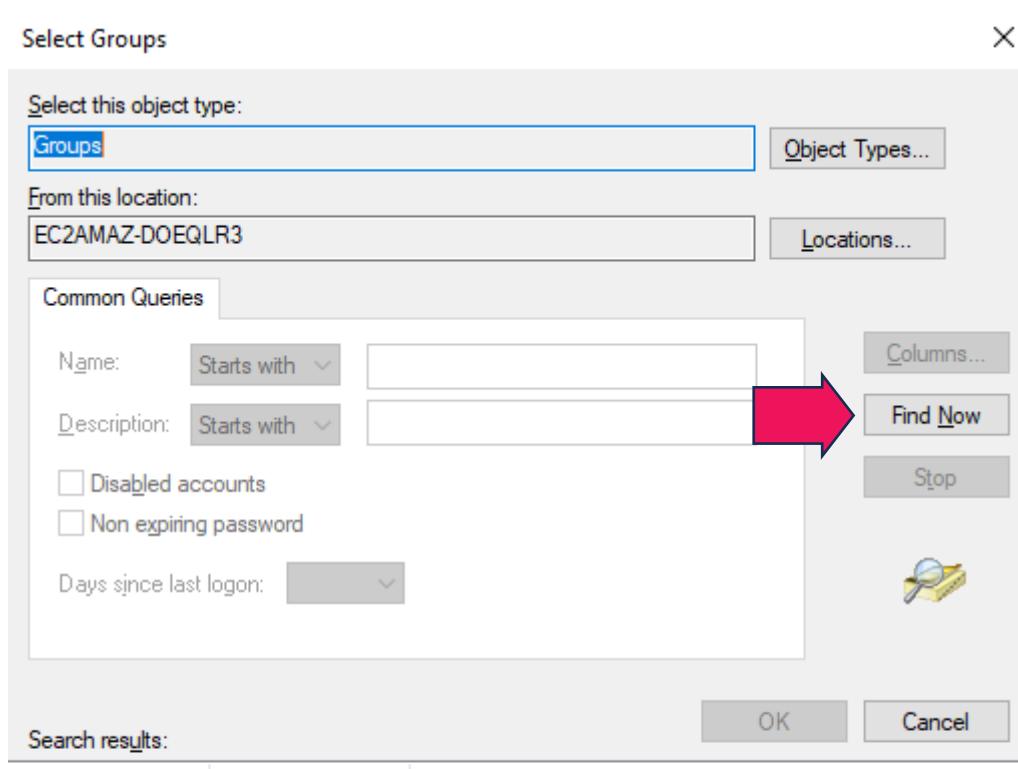
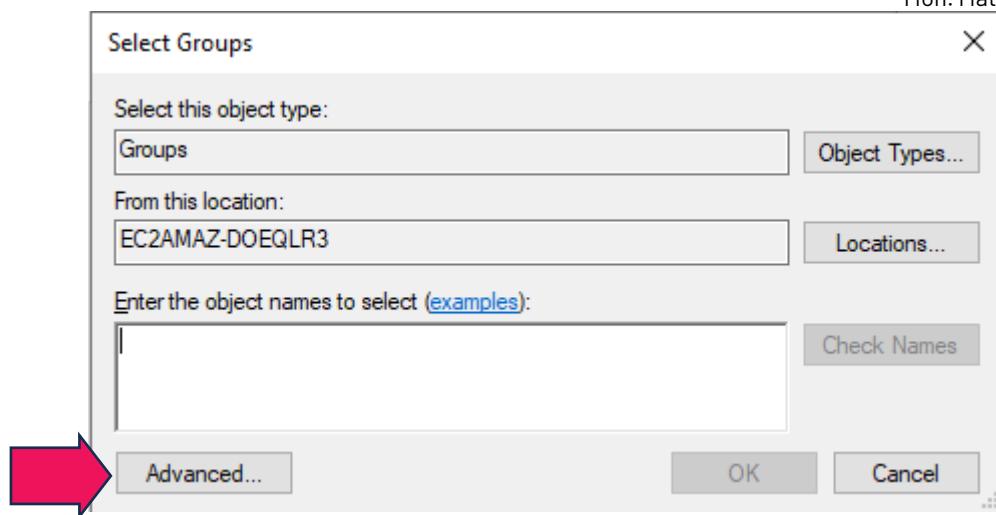


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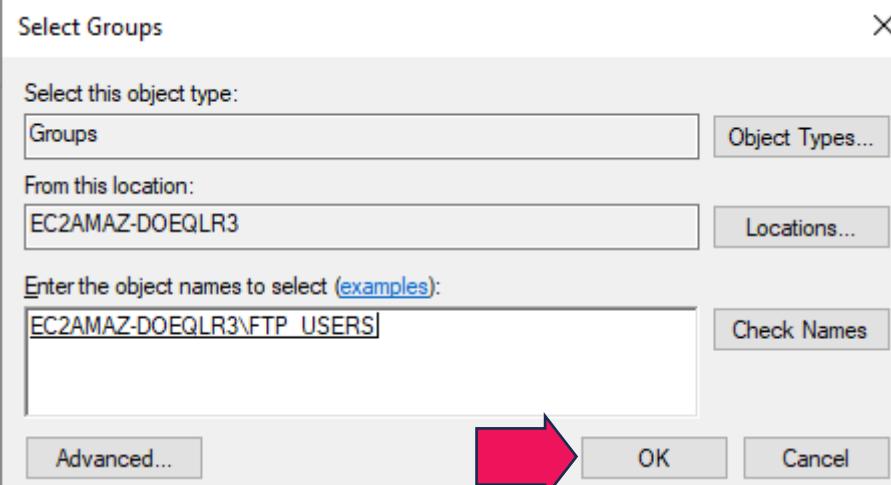
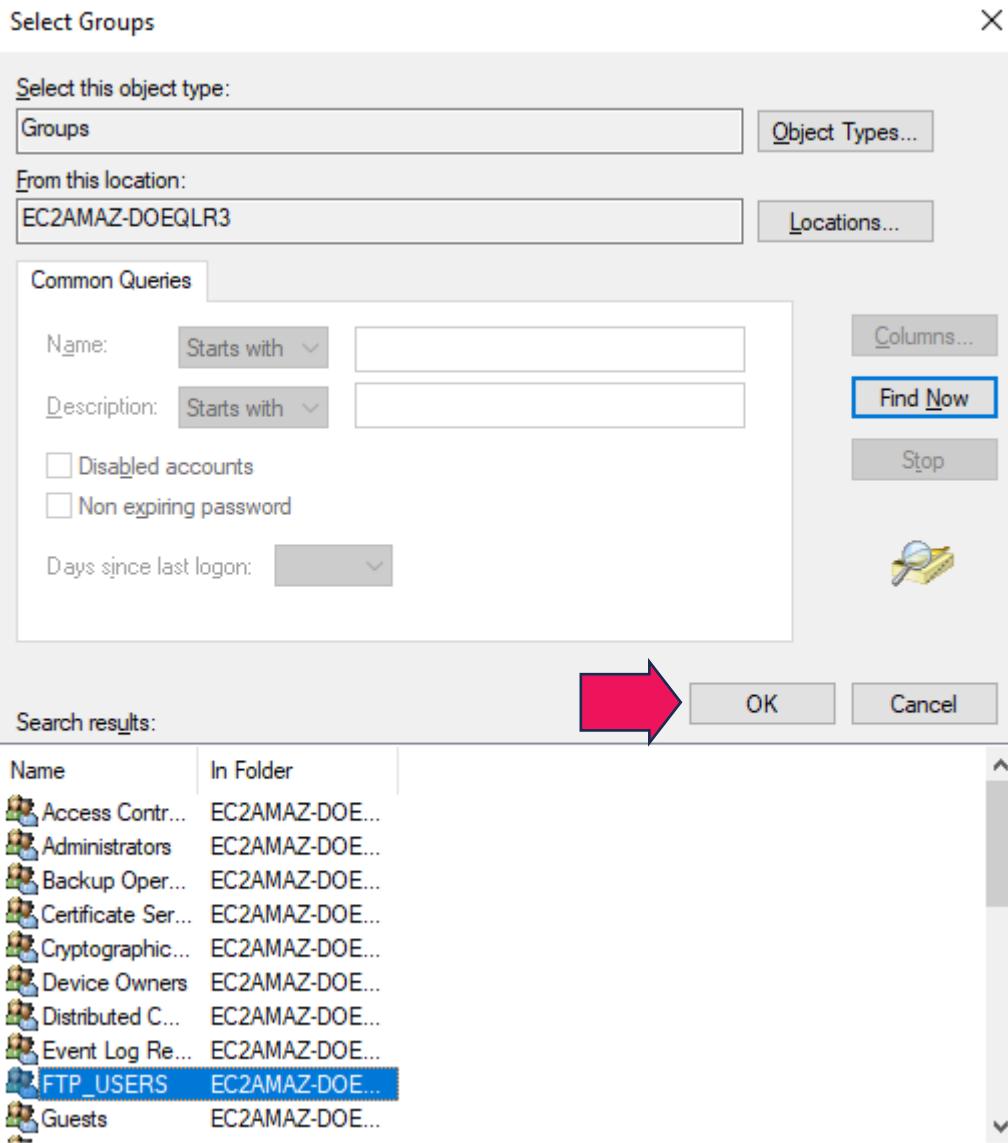


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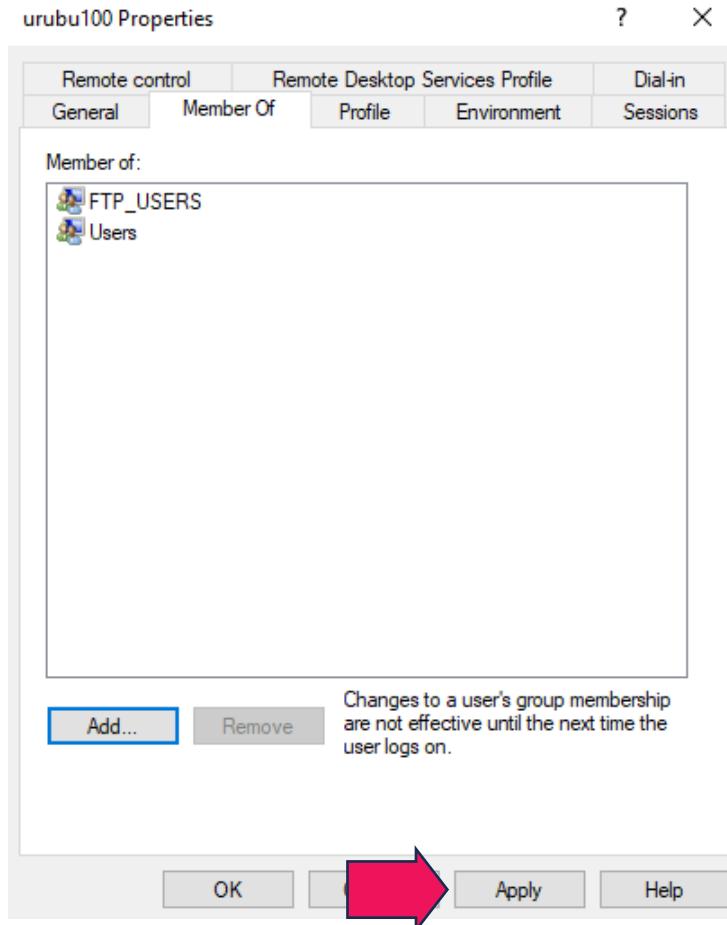


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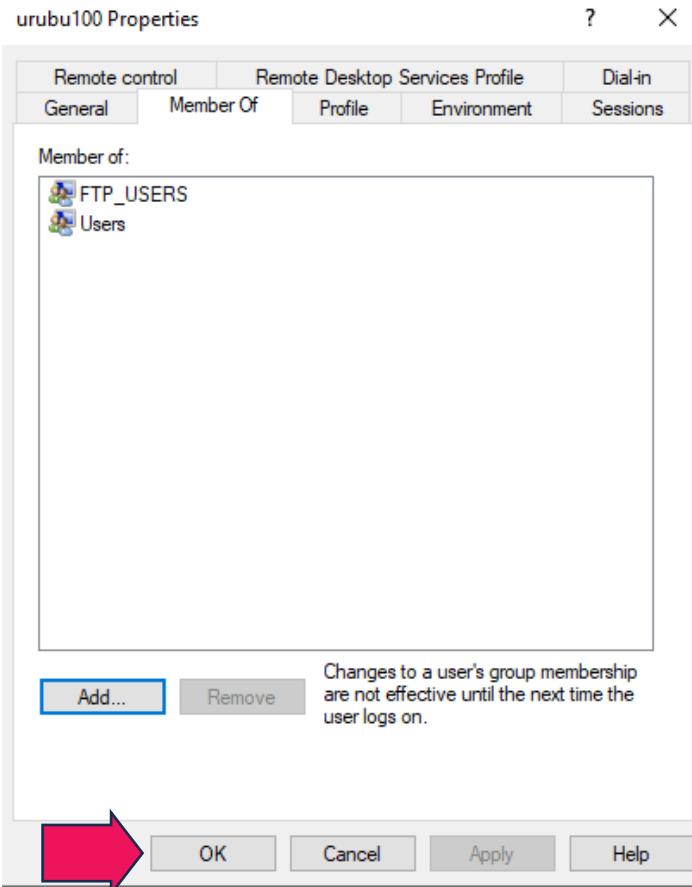


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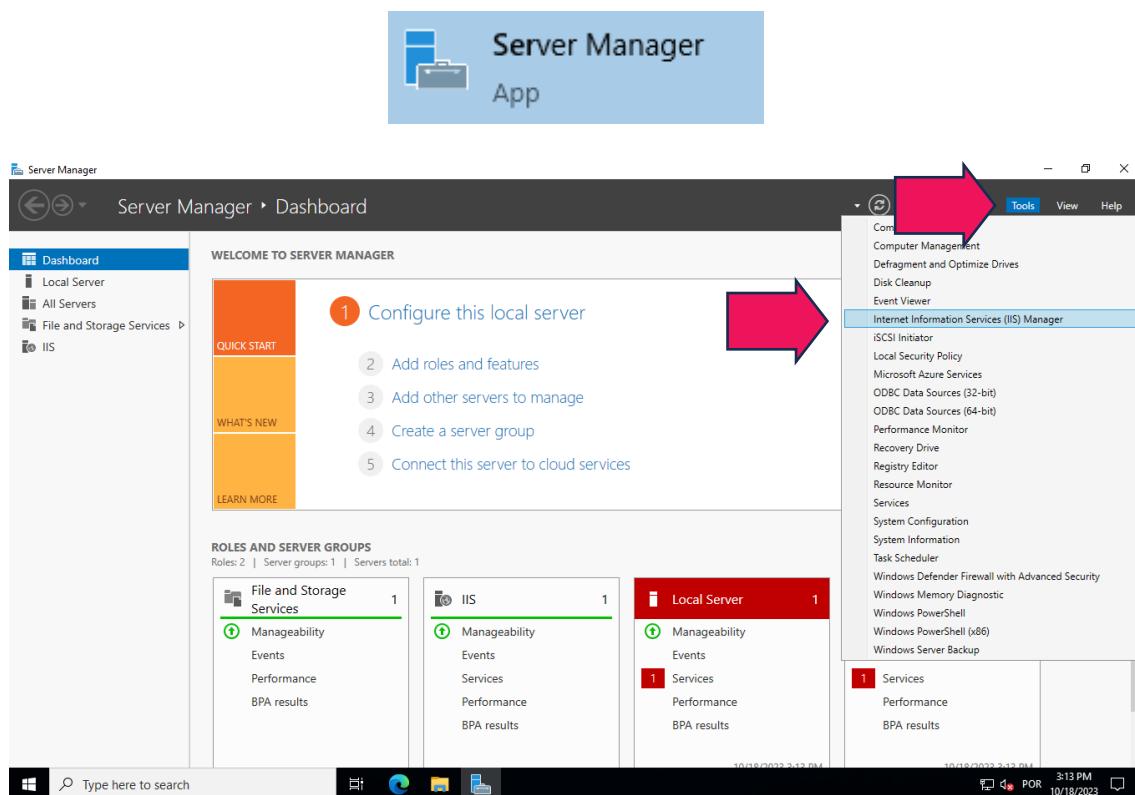
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Adicionando um site FTP

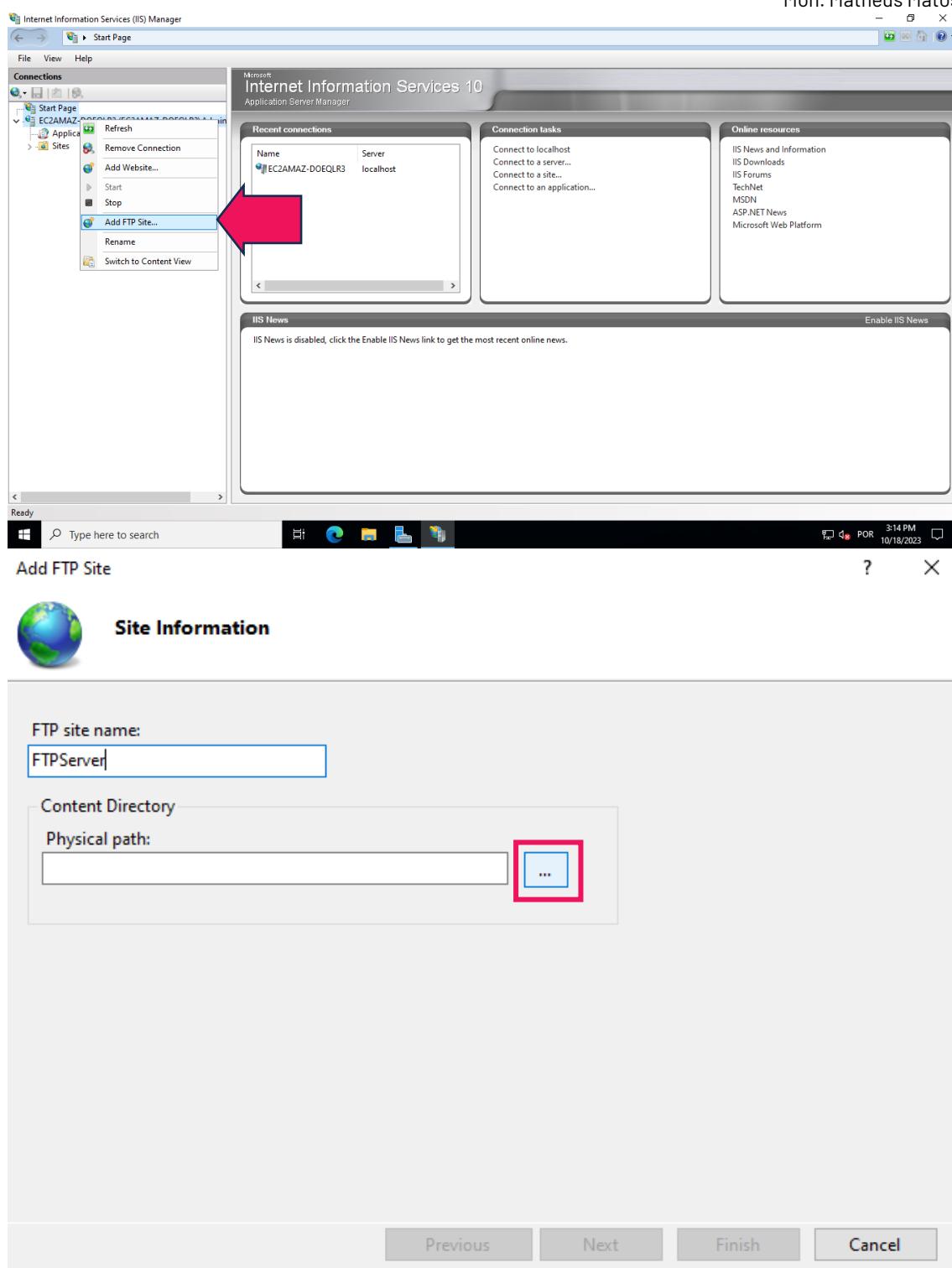


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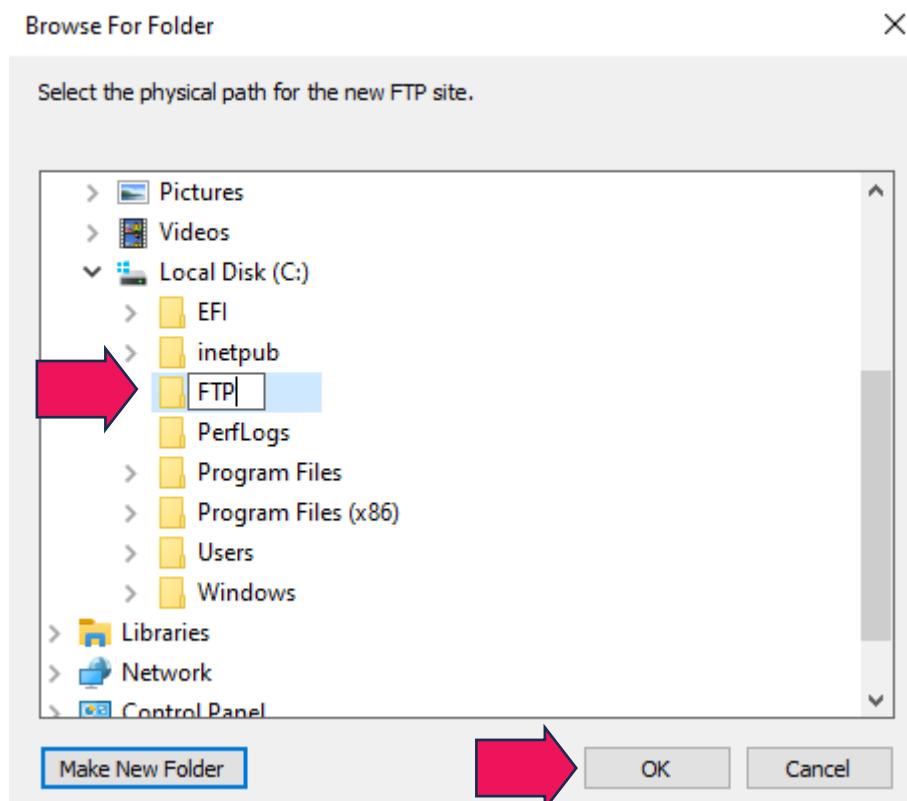
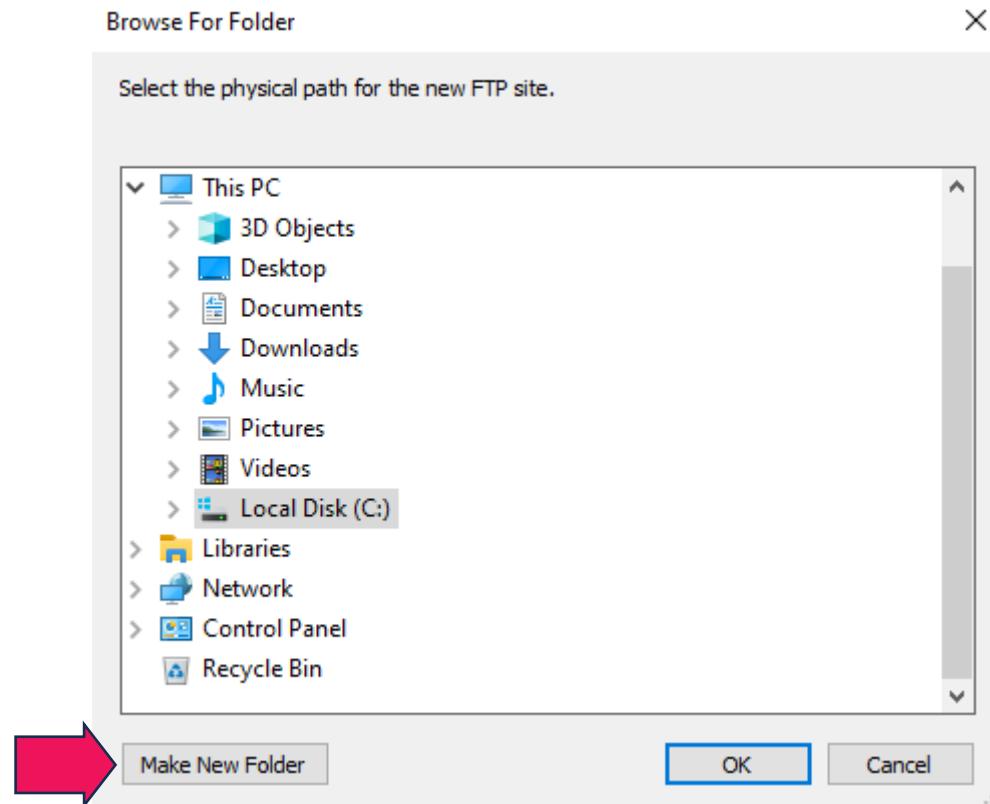


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Add FTP Site

? X

Site Information



FTP site name:

Content Directory

Physical path: ...

Buttons: Previous, Next, Finish, Cancel

Add FTP Site

? X

Binding and SSL Settings

Binding

IP Address: Port:

Enable Virtual Host Names:
Virtual Host (example: ftp.contoso.com):

Start FTP site automatically

SSL

No SSL
 Allow SSL
 Require SSL

SSL Certificate: Select... View...

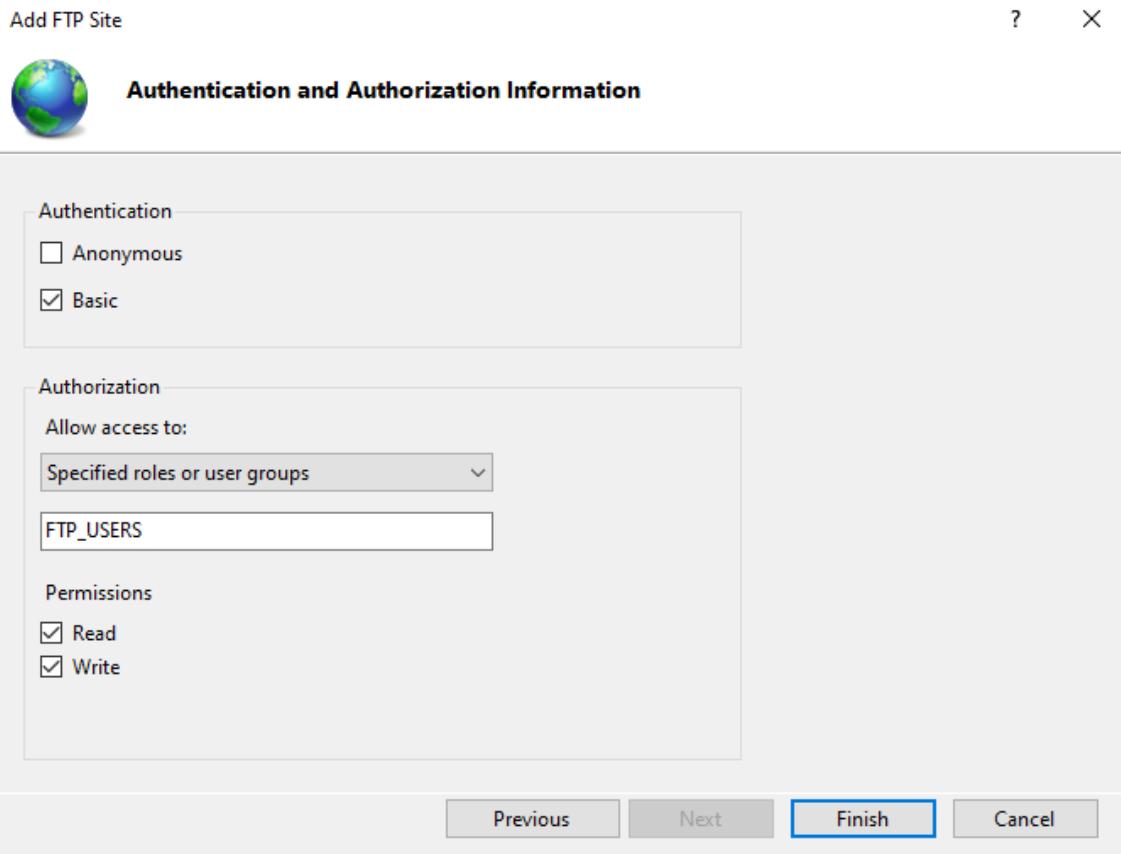
Buttons: Previous, Next, Finish, Cancel

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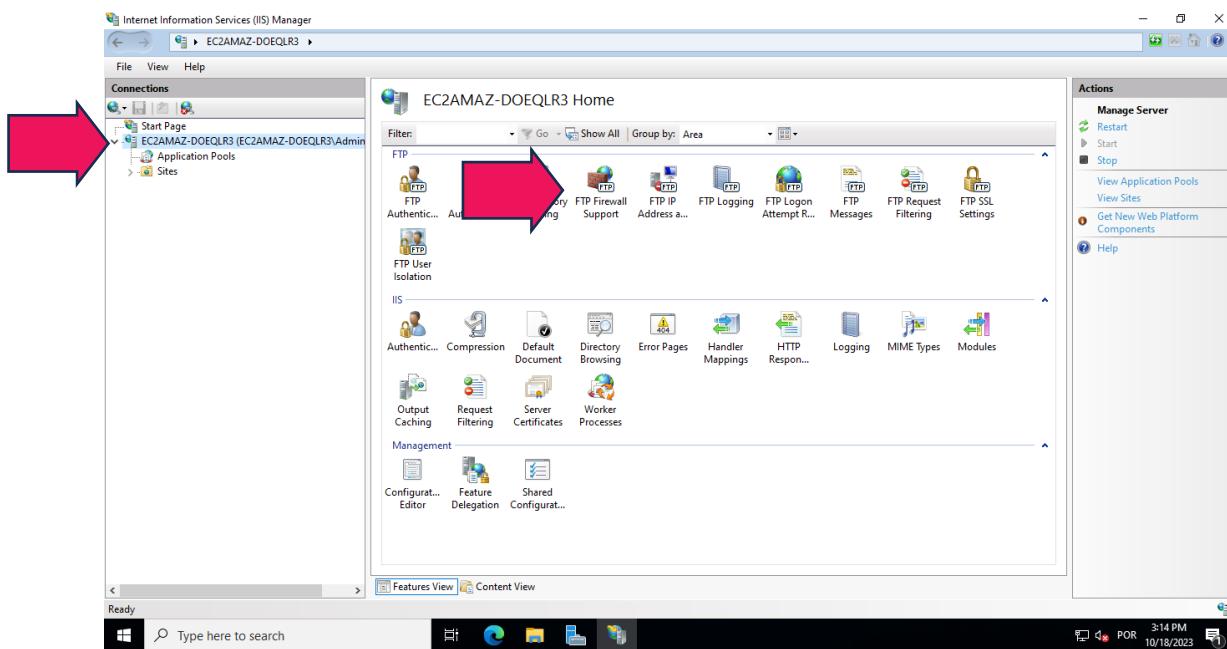
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Adicionando regras de entrada no firewall do serviço FTP

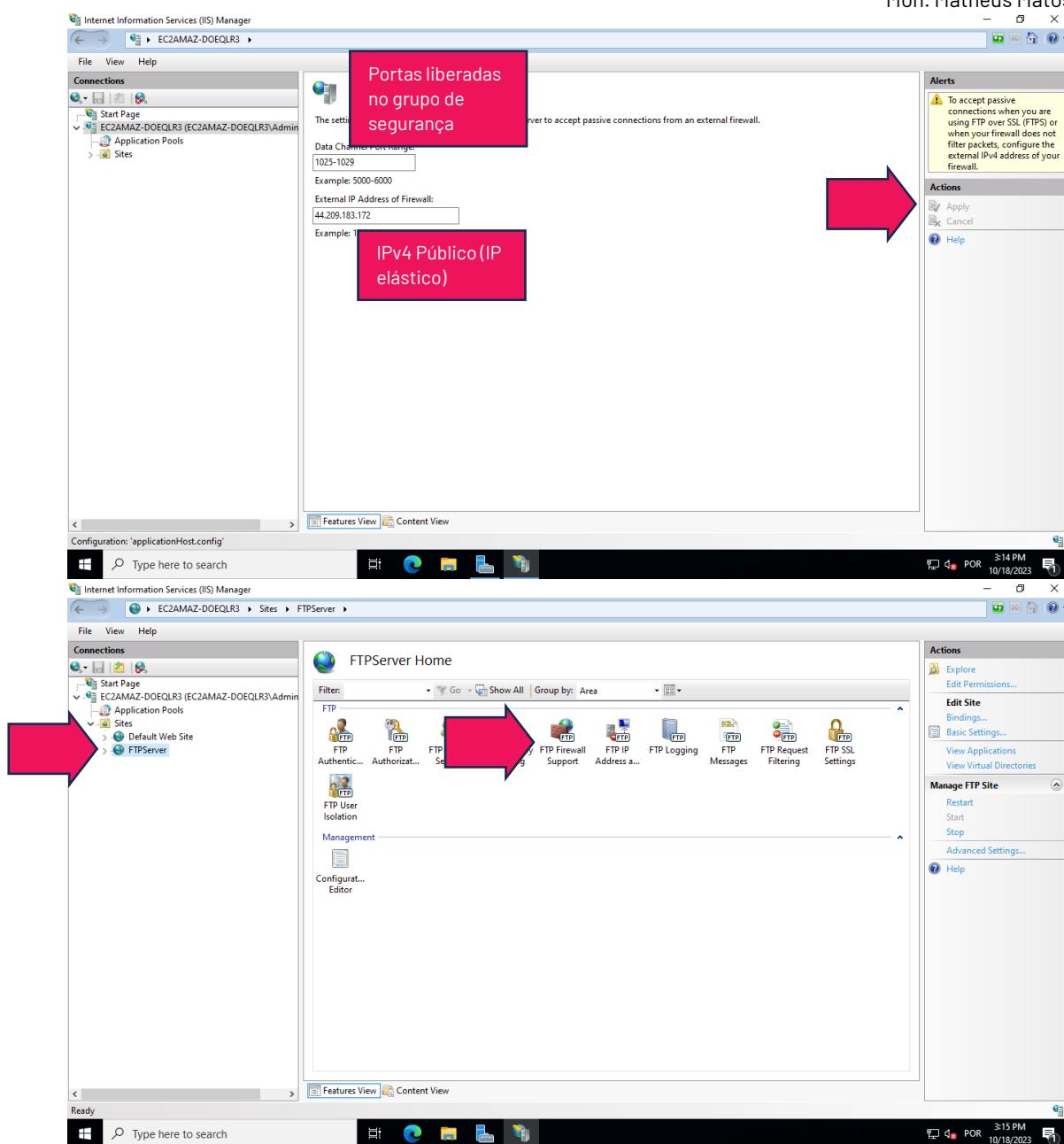


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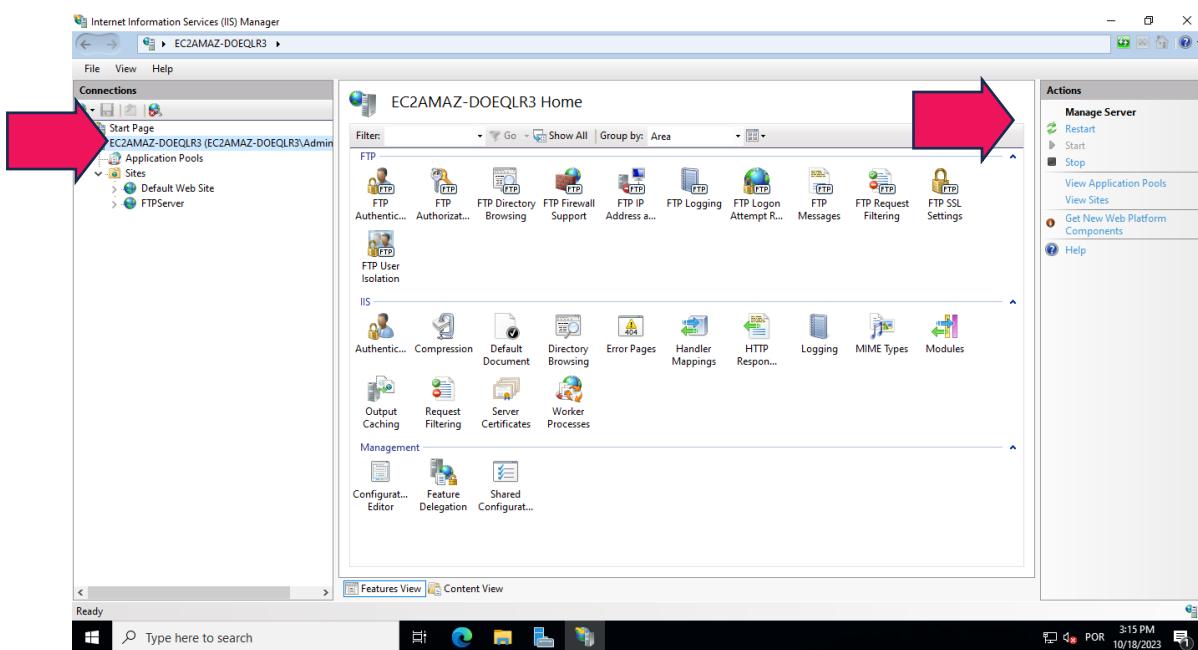
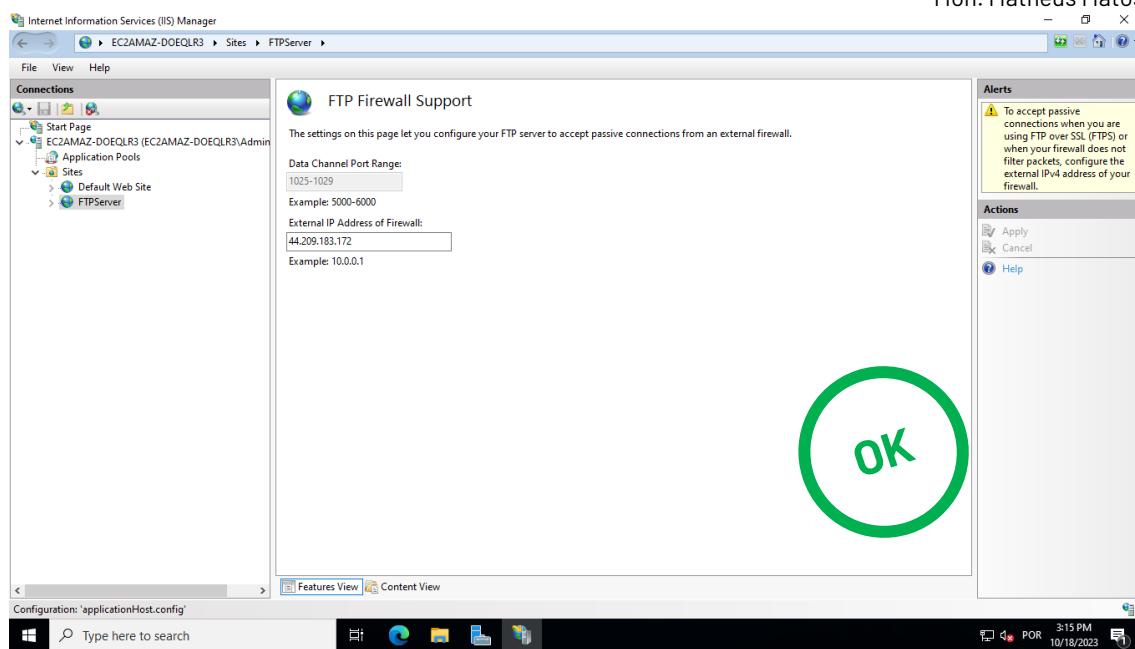


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Testando o funcionamento local do FTP

Command Prompt
App

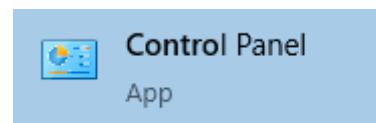
```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.20348.1970]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Administrator>ftp localhost
Connected to EC2AMAZ-DOEQLR3.
220 Microsoft FTP Service
200 OPTS UTF8 command successful - UTF8 encoding now ON.
User (EC2AMAZ-DOEQLR3:(none)): urubu100
331 Password required
Password:
230 User logged in.
ftp> quit
221 Goodbye.

C:\Users\Administrator>
```



Permitindo serviço no firewall do Windows



Adjust your computer's settings

View by: Category ▾



 System and Security Review your computer's status 	 User Accounts 
 Network and Internet View network status and tasks	 Appearance and Personalization
 Hardware View devices and printers Add a device	 Clock and Region Set the time and date Change date, time, or number formats
 Programs Uninstall a program 	 Ease of Access Let Windows suggest settings Optimize visual display

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Security and Maintenance
Review your computer's status and resolve issues | [Change User Account Control settings](#) | Troubleshoot common computer problems

Windows Defender Firewall
Check firewall | [Allow an app through Windows Firewall](#)

System
View amount of RAM and processor speed | [Allow remote access](#) | [Launch remote assistance](#) | See the name of this computer

Power Options
Change what the power buttons do | Change when the computer sleeps

Administrative Tools
Defragment and optimize your drives | [Create and format hard disk partitions](#) | [View event logs](#) | [Schedule tasks](#) | [Generate a system health report](#)

Allow apps to communicate through Windows Defender Firewall
To add, change, or remove allowed apps and ports, click [Change settings](#).
What are the risks of allowing an app to communicate? [Change settings](#)

Name	Private	Public
AllJoyn Router	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BranchCache - Content Retrieval (Uses HTTP)	<input type="checkbox"/>	<input type="checkbox"/>
BranchCache - Hosted Cache Client (Uses HTTPS)	<input type="checkbox"/>	<input type="checkbox"/>
BranchCache - Hosted Cache Server (Uses HTTPS)	<input type="checkbox"/>	<input type="checkbox"/>
BranchCache - Peer Discovery (Uses WSD)	<input type="checkbox"/>	<input type="checkbox"/>
Captive Portal Flow	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Cast to Device functionality	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
COM+ Network Access	<input type="checkbox"/>	<input type="checkbox"/>
COM+ Remote Administration	<input type="checkbox"/>	<input type="checkbox"/>
Core Networking	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Core Networking Diagnostics	<input type="checkbox"/>	<input type="checkbox"/>
Delivery Optimization	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

[Details...](#) [Remove](#)
[Allow another app...](#)

[OK](#) [Cancel](#)

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Add an app

X

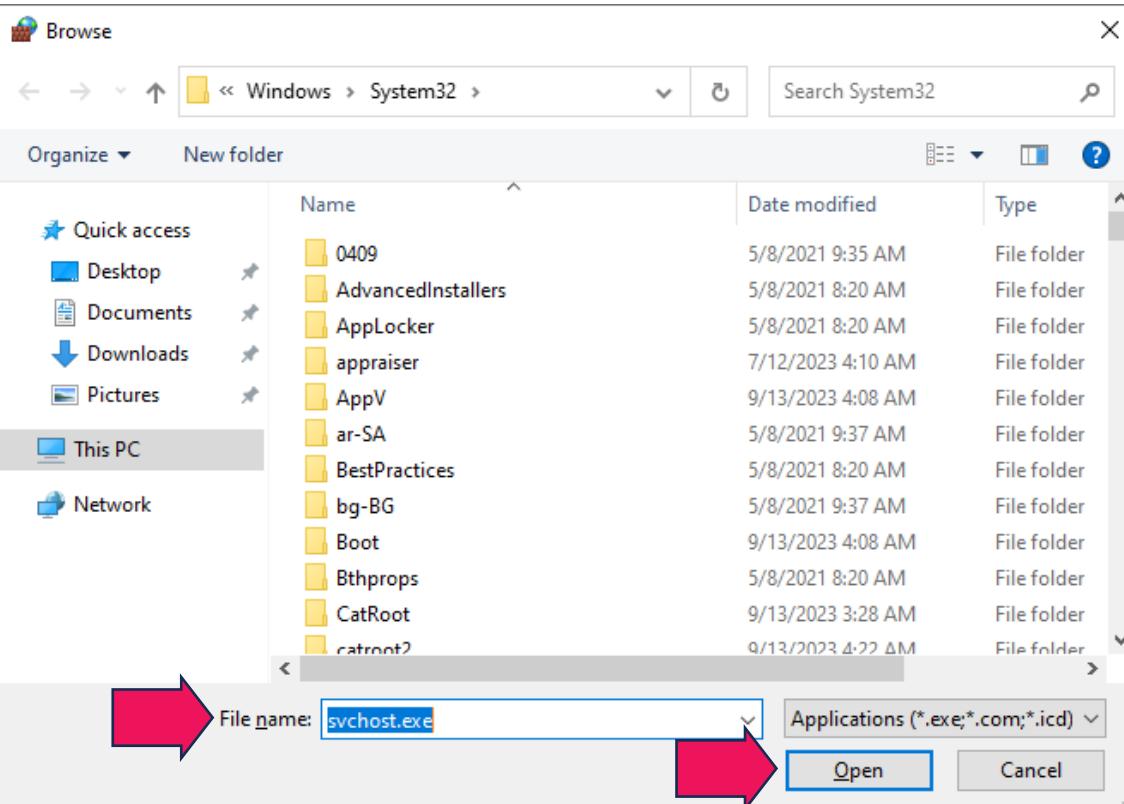
Select the app you want to add, or click Browse to find one that is not listed, and then click OK.

Apps:

Path:

[What are the risks of unblocking an app?](#)

You can choose which network types to add this app to.

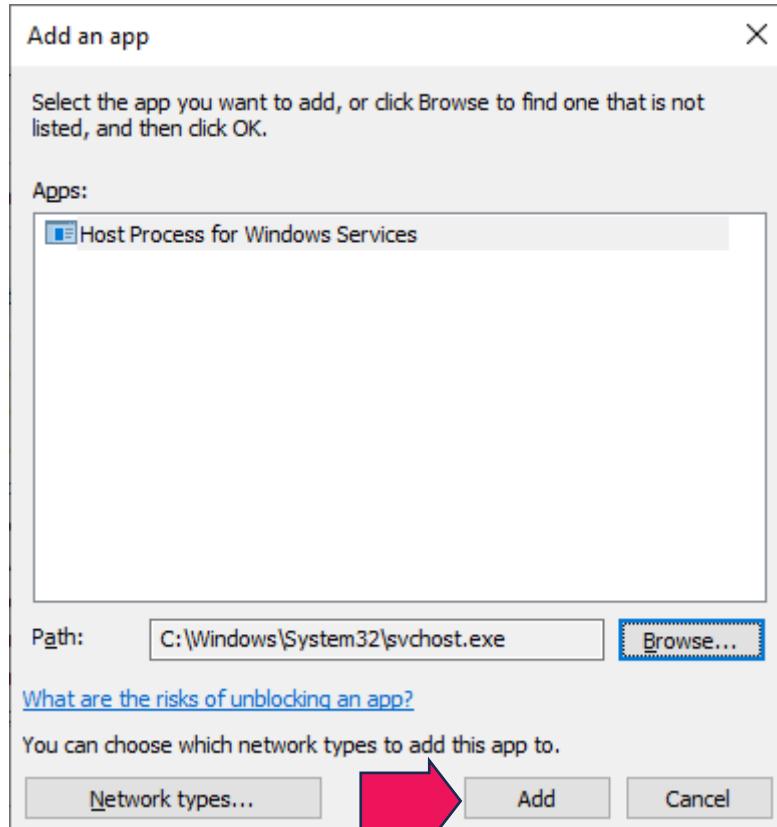


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Allow apps to communicate through Windows Defender Firewall

To add, change, or remove allowed apps and ports, click Change settings.

[What are the risks of allowing an app to communicate?](#)

[Change settings](#)

Allowed apps and features:

Name	Private	Public
Delivery Optimization	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Desktop App Web Viewer	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
DiagTrack	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
DIAL protocol server	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Distributed Transaction Coordinator	<input type="checkbox"/>	<input type="checkbox"/>
Email and accounts	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
File and Printer Sharing	<input type="checkbox"/>	<input type="checkbox"/>
File and Printer Sharing over QUIC	<input type="checkbox"/>	<input type="checkbox"/>
File and Printer Sharing over SMBDirect	<input type="checkbox"/>	<input type="checkbox"/>
FTP Server	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Host Process for Windows Services	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
iSCSI Service	<input type="checkbox"/>	<input type="checkbox"/>

[Details...](#) [Remove](#)

[Allow another app...](#)

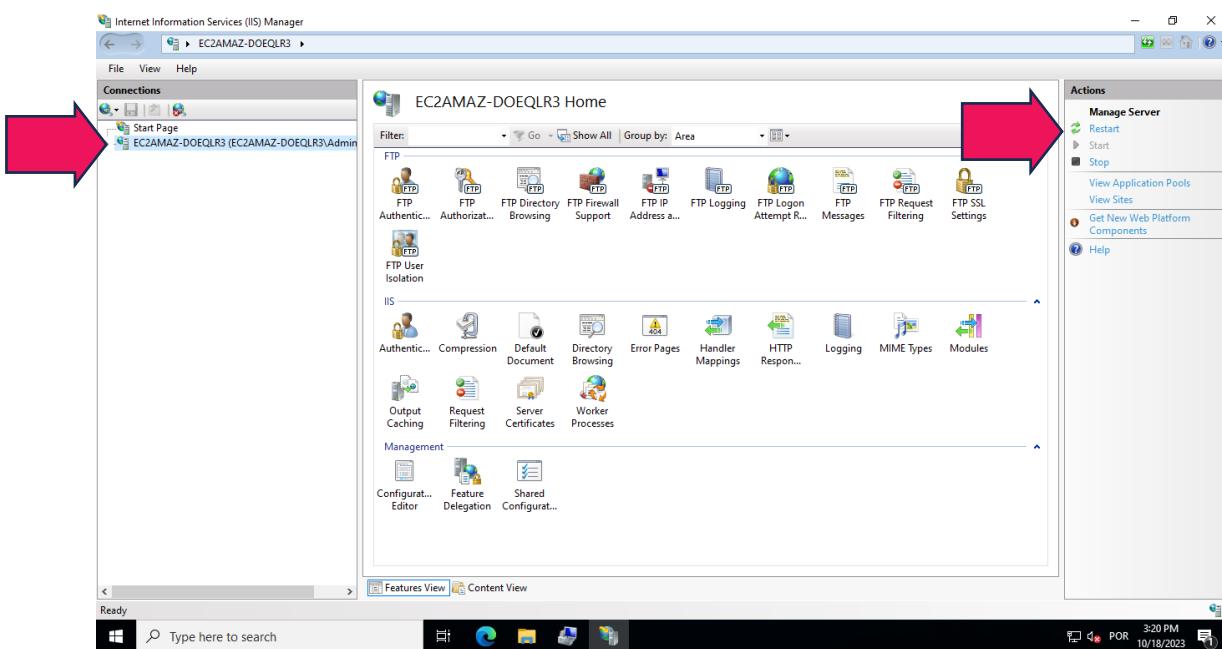
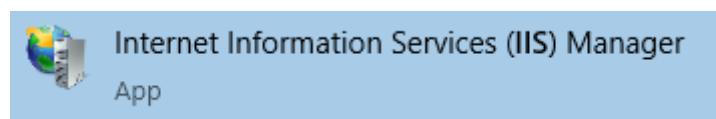
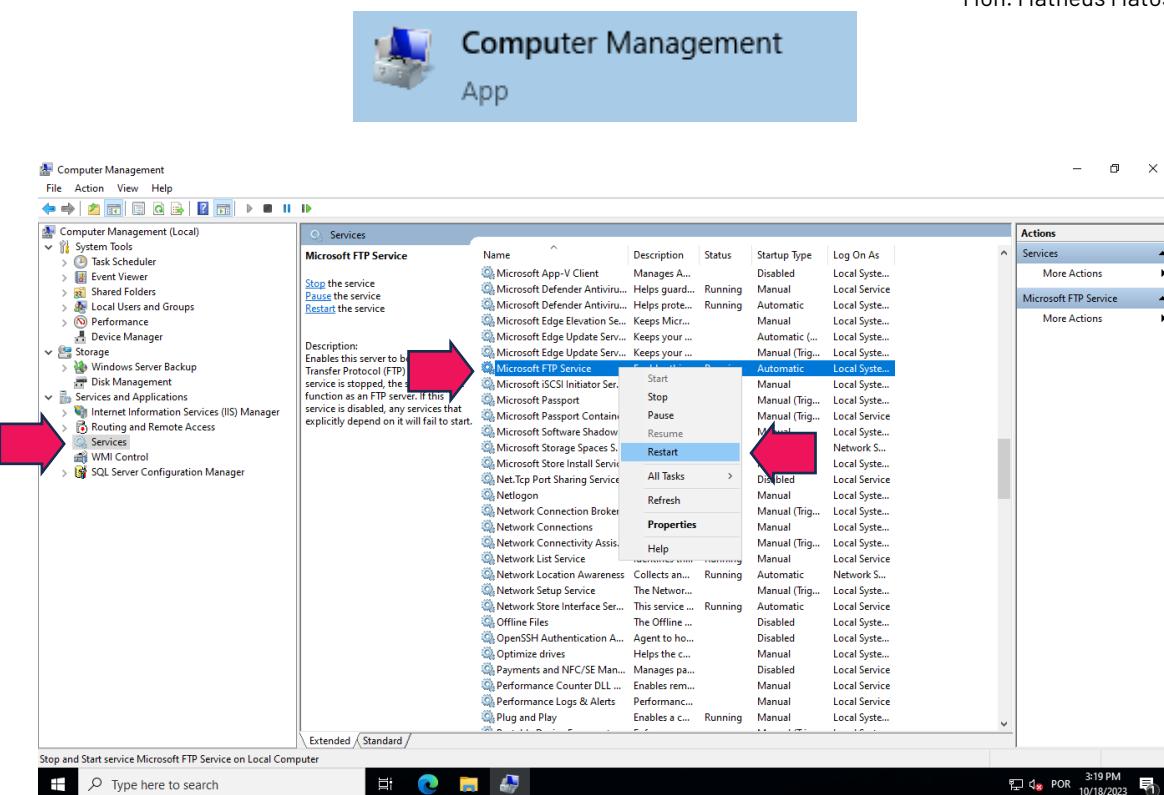
→ [OK](#) [Cancel](#)

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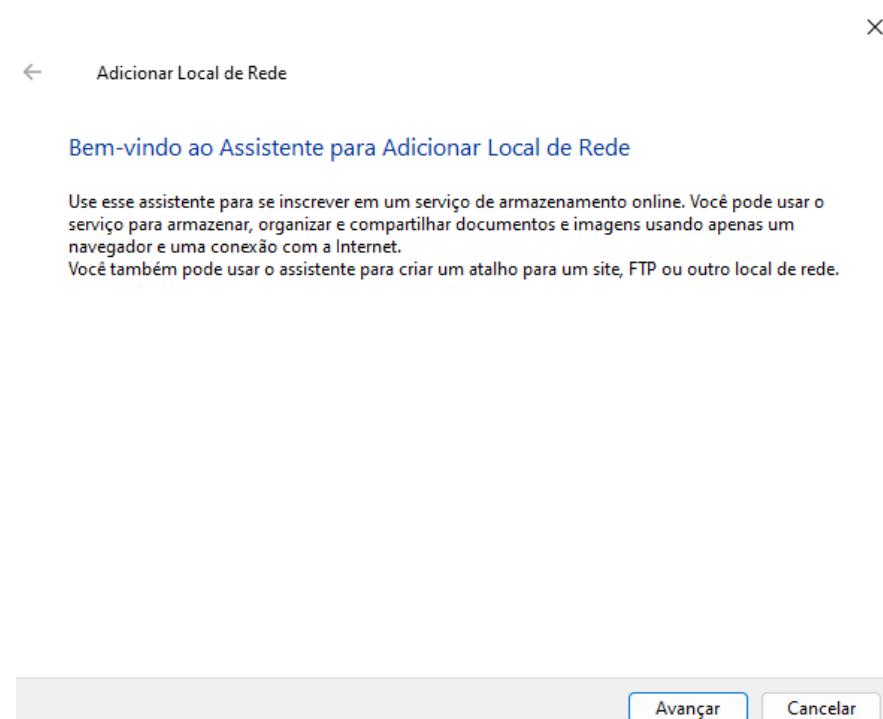
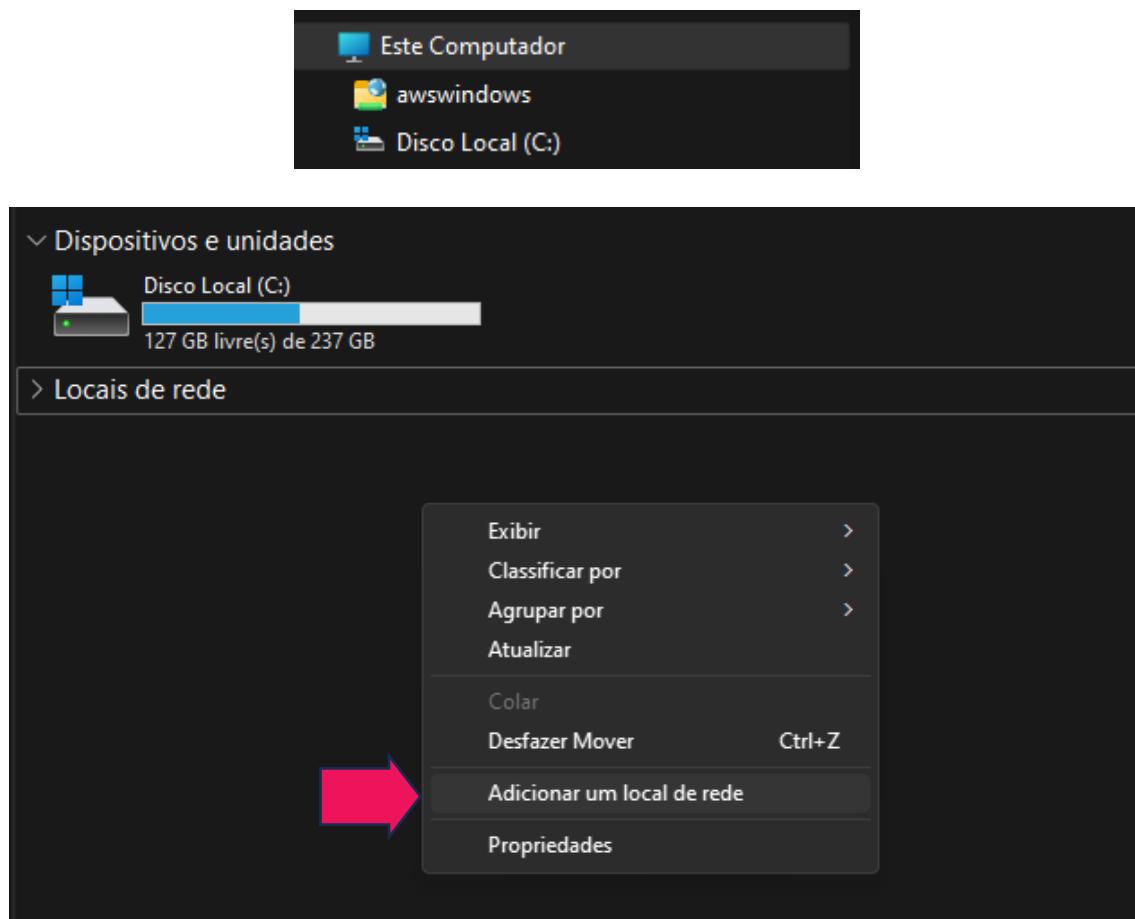
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Mon. Matheus Matos



Adicionando local de rede de acesso ao FTP

Acessando no seu computador local



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X

← Adicionar Local de Rede

Onde você deseja criar este local de rede?

 Escolher um local de rede personalizado
Especifique o endereço de um site, local de rede ou site FTP.

Avançar

Cancelar

X

← Adicionar Local de Rede

Especifique a localização de seu site

Digite o endereço do site, site FTP ou local de rede a ser aberto por esse atalho.

Endereço de rede ou na Internet:

ftp://44.209.183.172|

[Exibir exemplos](#)

IPv4 público da sua
máquina na AWS (IP
elástico)

Procurar...

Avançar

Cancelar

95

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X

← Adicionar Local de Rede

Especifique Nome de Usuário e Senha se Necessário

A maioria dos servidores FTP permite que os usuários façam logon anônimo com acesso limitado ao servidor. Deseja fazer logon anônimo?

Fazer logon anônimo

Nome de usuário:

urubu100

Sua senha será solicitada quando você se conectar ao servidor FTP.

Avançar

Cancelar

X

← Adicionar Local de Rede

Que nome você deseja dar a este local?

Crie um nome para este atalho que o ajude a identificar facilmente este local na rede:

ftp://44.209.183.172.

Digite um nome para este local de rede:

ftp_server_aws

Avançar

Cancelar

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X

← Adicionar Local de Rede

Concluindo o Assistente para Adicionar Local de Rede

Você criou com êxito este local de rede:

[ftp_server.aws](#)

Um atalho para esse local aparecerá em Computador.

Abrir este local de rede quando eu clicar em Concluir.

[Concluir](#)

[Cancelar](#)

Fazer logon como



Não foi possível fazer logon no servidor FTP com o nome de usuário e a senha especificados.

Servidor FTP: 44.209.183.172

Nome de usuário:

Senha:

Depois de fazer logon, você poderá adicionar este servidor aos Favoritos e retornar a ele facilmente.



O FTP não criptografa nem codifica senhas ou dados antes de os enviar ao servidor. Para proteger a segurança de suas senhas e dados, use WebDAV.

Fazer logon anônimo

Salvar senha

[Logon](#)

[Cancelar](#)

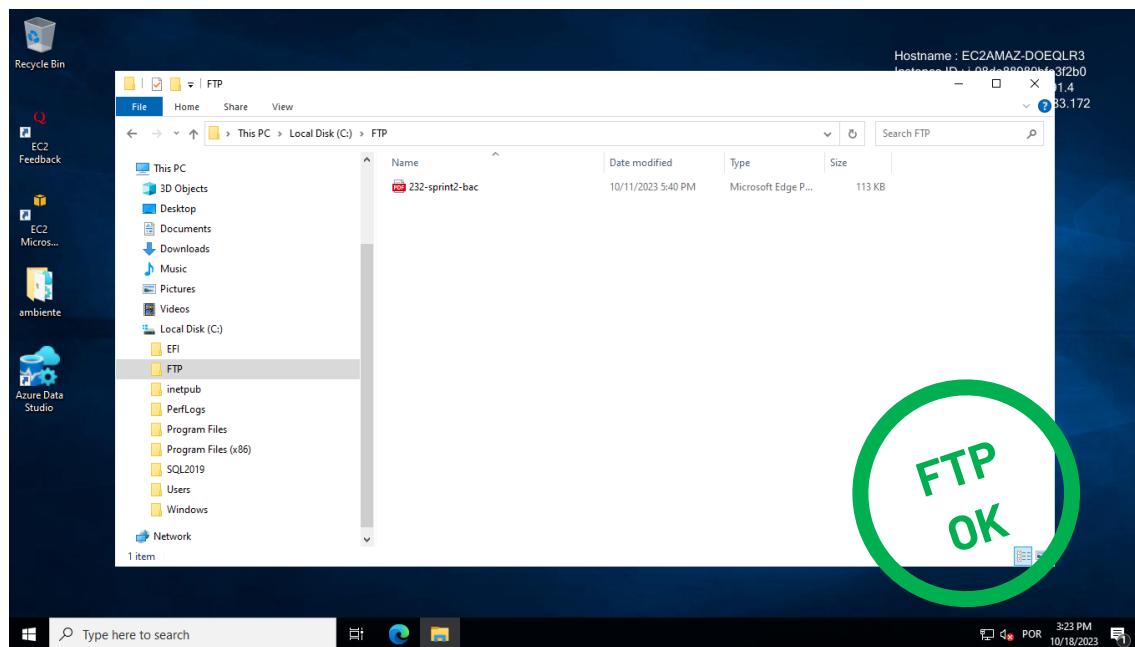
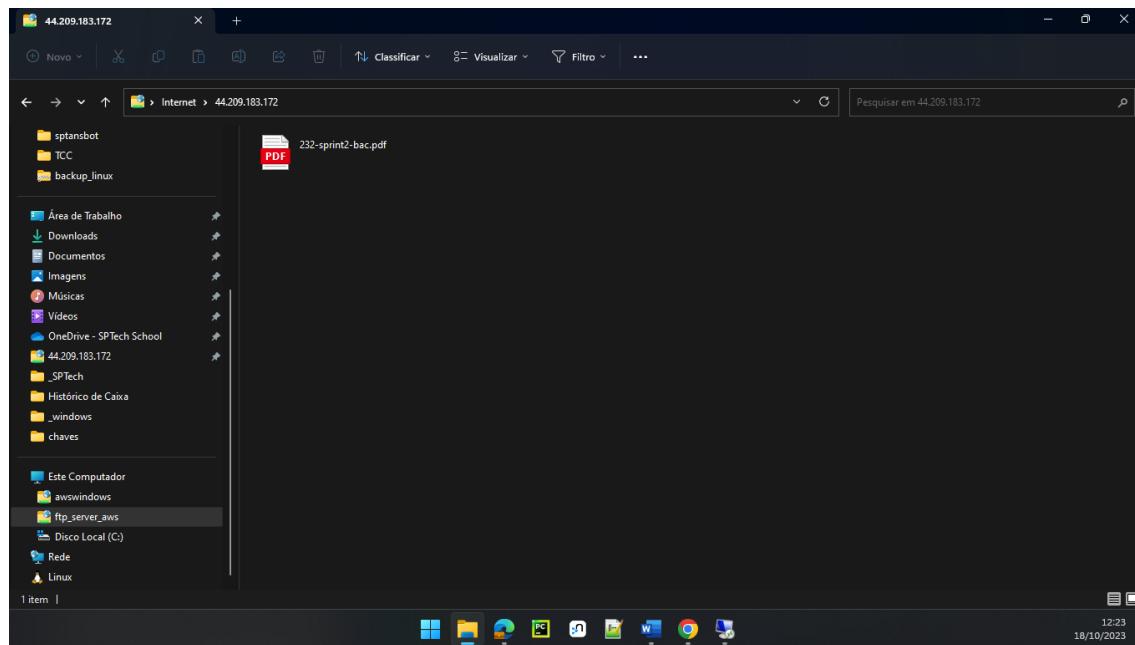
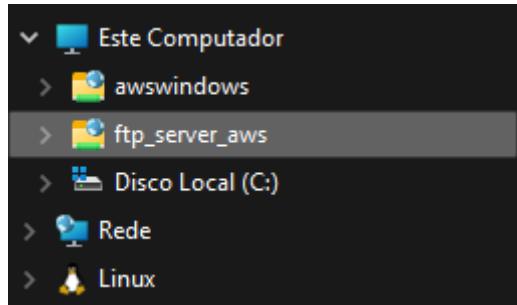
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Testando acesso local



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Histórico de versões

Versão	Descrição	Data	Responsável
1.0	Elaboração do documento	11-out-23	Eduardo Verri
1.1	Adição da seção do SQL Server	16-out-23	Eduardo Verri
1.2	Adição da seção de conexão remota ao SQL Server	17-out-23	Eduardo Verri
1.3	Atualização da seção de conexão remota ao SQL para permitir SQL Authentication Login	06-nov-23	Eduardo Verri

Referências

- [Tutorial: Comece a usar instâncias de Windows do Amazon EC2 - Amazon Elastic Compute Cloud](#)
- [Port 1025 \(tcp/udp\) :: SpeedGuide](#)
- [How to set up FTP server on Windows Server \(2023\) - Server Decode](#)
- [Como Instalar o Servidor SFTP no Windows 10 | Conectando Net](#)
- [FTP Connection on AWS EC2 Windows Server - Bing video](#)
- [Create FTPS server on Windows Server IIS in 5 minutes - sithum devops | by Sithum Jayarathna | Medium](#)
- [FTP | Microsoft Learn](#)
- [Open a Firewall Port for SQL Server \(manifold.net\)](#)
- [Enable TCP/IP for SQL Server \(manifold.net\)](#)
- [Quickstart: Connect and query SQL Server - Azure Data Studio | Microsoft Learn](#)
- [SQL Server installation guide - SQL Server | Microsoft Learn](#)
- [Driver Node.js para SQL Server - Node.js driver for SQL Server | Microsoft Learn](#)
- [Download and install Azure Data Studio - Azure Data Studio | Microsoft Learn](#)
- [Baixar o SQL Server Management Studio \(SSMS\) - SQL Server Management Studio \(SSMS\) | Microsoft Learn](#)
- [9 best tools for working with Microsoft SQL Server \(sqlplus.com\)](#)
- [How to Get Started with Azure Data Studio \(adamtheautomator.com\)](#)
- [SQL Server Downloads | Microsoft](#)
- [Desired State Configuration 2.0 - PowerShell | Microsoft Learn](#)
- [Install: PowerShell Desired State Configuration - SQL Server | Microsoft Learn](#)
- [Conectar-se a uma instância do SQL Server e consultá-la usando o SSMS \(SQL Server Management Studio\) - SQL Server Management Studio \(SSMS\) | Microsoft Learn](#)