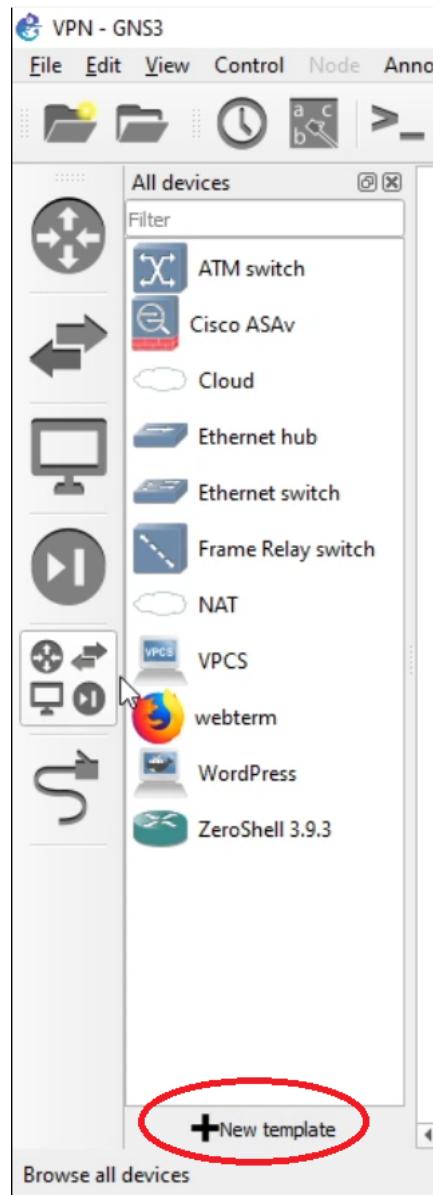


03

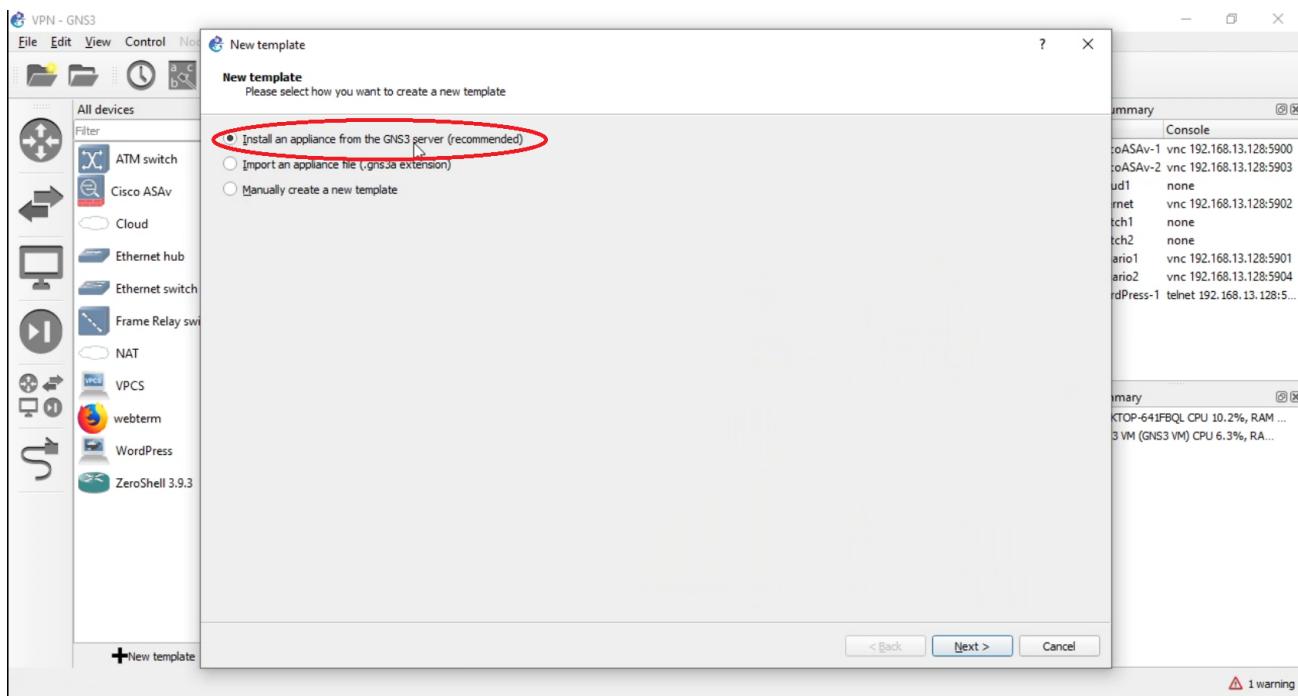
## Preparando o ambiente

Na VPN do tipo “Remote Access”, vamos utilizar um computador com Windows dentro do GNS para simular nosso usuário trabalhando de casa.

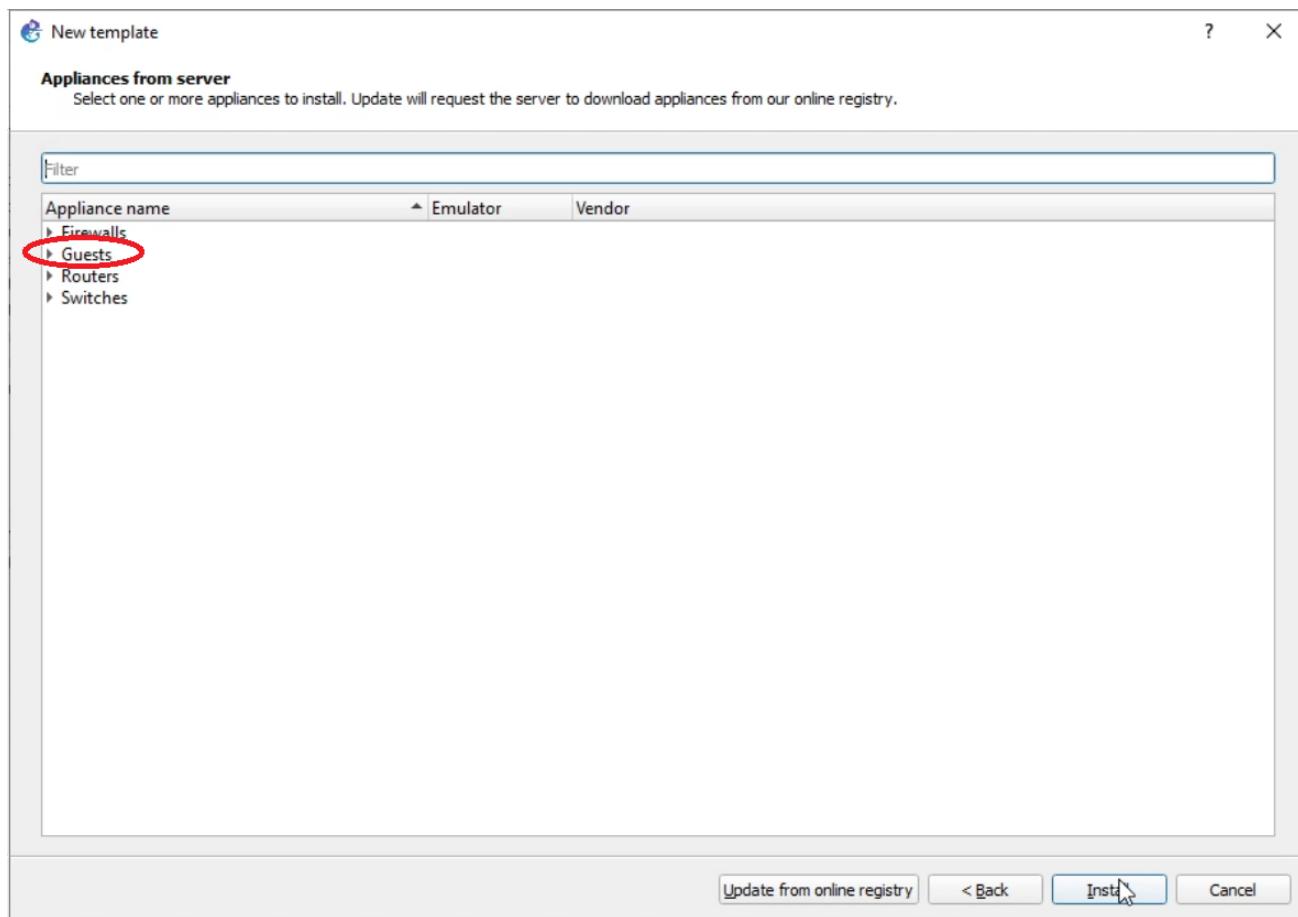
Com o projeto aberto, adicione um novo Template:



Selecione a opção para instalar a partir do **GNS3 Server**:



Selecione **Guests**:



E procure pela opção **Windows**:

New template

Appliances from server

Select one or more appliances to install. Update will request the server to download appliances from our online registry.

Appliance name	Emulator	Vendor
ParrotOS	Qemu	Parrot Project
ParrotOS	Qemu	Parrot Project
Python, Go, Perl, PHP	Docker	GNS3 Team
Security Onion	Qemu	Security Onion Solutions, LLC
Sophos iView	Qemu	Sophos
SteelHead CX 555V	Qemu	Riverbed Technology
TacacsGUI	Qemu	TacacsGUI
Tiny Core Linux	Qemu	Team Tiny Core
Toolbox	Docker	Ubuntu
Toolbox (custom)	Docker	Ubuntu
Ubuntu Cloud Guest	Qemu	Canonical Inc.
Ubuntu Desktop Guest	Qemu	Canonical Inc.
Ubuntu Docker Guest	Docker	Canonical
Ubuntu Docker Guest (custom)	Docker	Canonical
Ubuntu Server	Qemu	Canonical Inc.
vRIN	Qemu	Andras Dosztal
webterm	Docker	webterm
<b>Windows</b>	Qemu	Microsoft
Windows (custom)	Qemu	Microsoft
Windows Server	Qemu	Microsoft
WordPress	Docker	Turnkey Linux
Zentyal Server	Qemu	Zentyal S.L.

▶ Routers

▶ Switches

Update from online registry < Back **Install** Cancel

Selecione a opção **MSEdge-Win10-Vmware-disk1.vmdk** e clique para fazer o “Download” da página da “Microsoft”:

Install Windows appliance

Required files

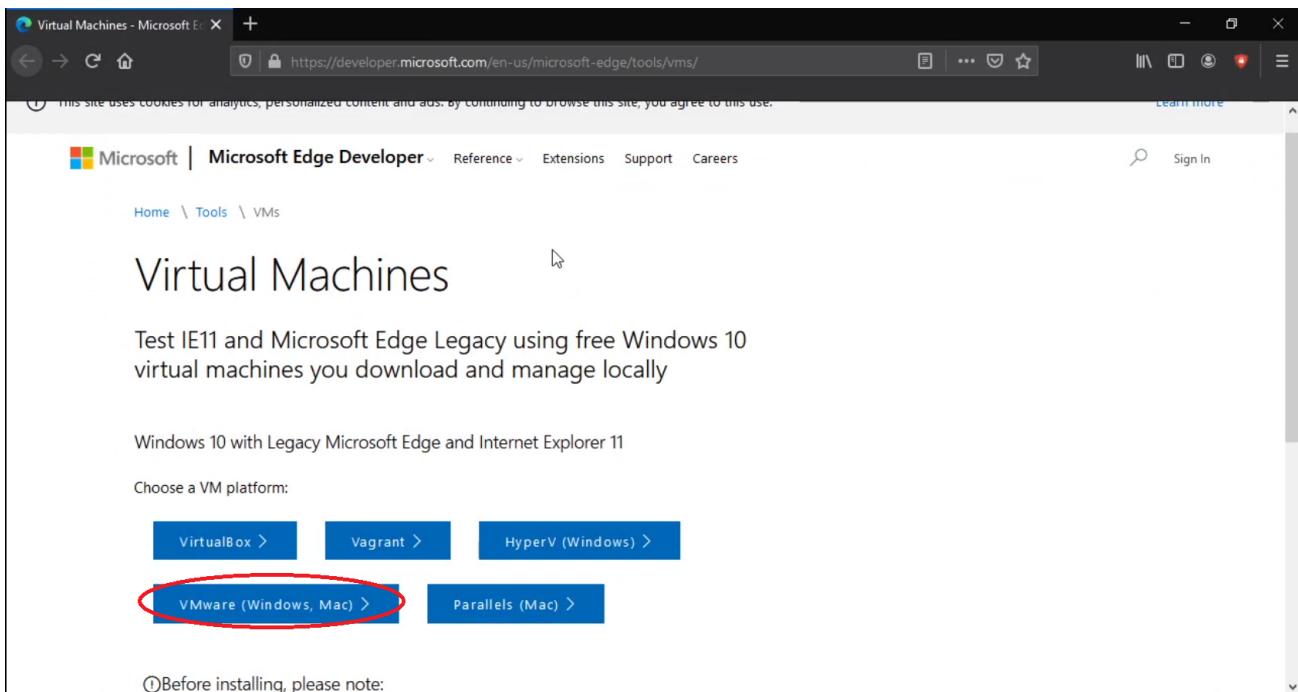
Please select one version of Windows and import the required files. Files are searched in your downloads and GNS3 images directories by default

Appliance version and files	Size	Status
Windows version 10 w/ Edge	6.8 GB	Ready to install
<b>MSEdge-Win10-VMware-disk1.vmdk</b>	10.2 GB	Found on GNS3 VM (GNS3 VM)
Windows version 10 w/ Edge (Preview)	10.2 GB	Missing files
MSEdge_-_Win10_preview.vmdk	10.2 GB	Missing
Windows version 8.1 w/ IE11	5.3 GB	Missing files
IE11_-_Win8.1-disk1.vmdk	5.3 GB	Missing
Windows version 7 w/ IE11	3.8 GB	Missing files
IE11_-_Win7-disk1.vmdk	3.8 GB	Missing
Windows version 7 w/ IE10	3.8 GB	Missing files
IE10_-_Win7-disk1.vmdk	3.8 GB	Missing
Windows version 7 w/ IE9	3.8 GB	Missing files
IE9_-_Win7-disk1.vmdk	3.8 GB	Missing
Windows version 7 w/ IE8	3.9 GB	Missing files
IE8_-_Win7-disk1.vmdk	3.9 GB	Missing

Import **Download**  Allow custom files [Create a new version](#) Refresh

Appliance info < Back **Next >** Cancel

O botão redireciona para a página de “Download” da “Microsoft”. Clique na opção **VMware** e faça o “download” do arquivo:



Virtual Machines

Test IE11 and Microsoft Edge Legacy using free Windows 10 virtual machines you download and manage locally

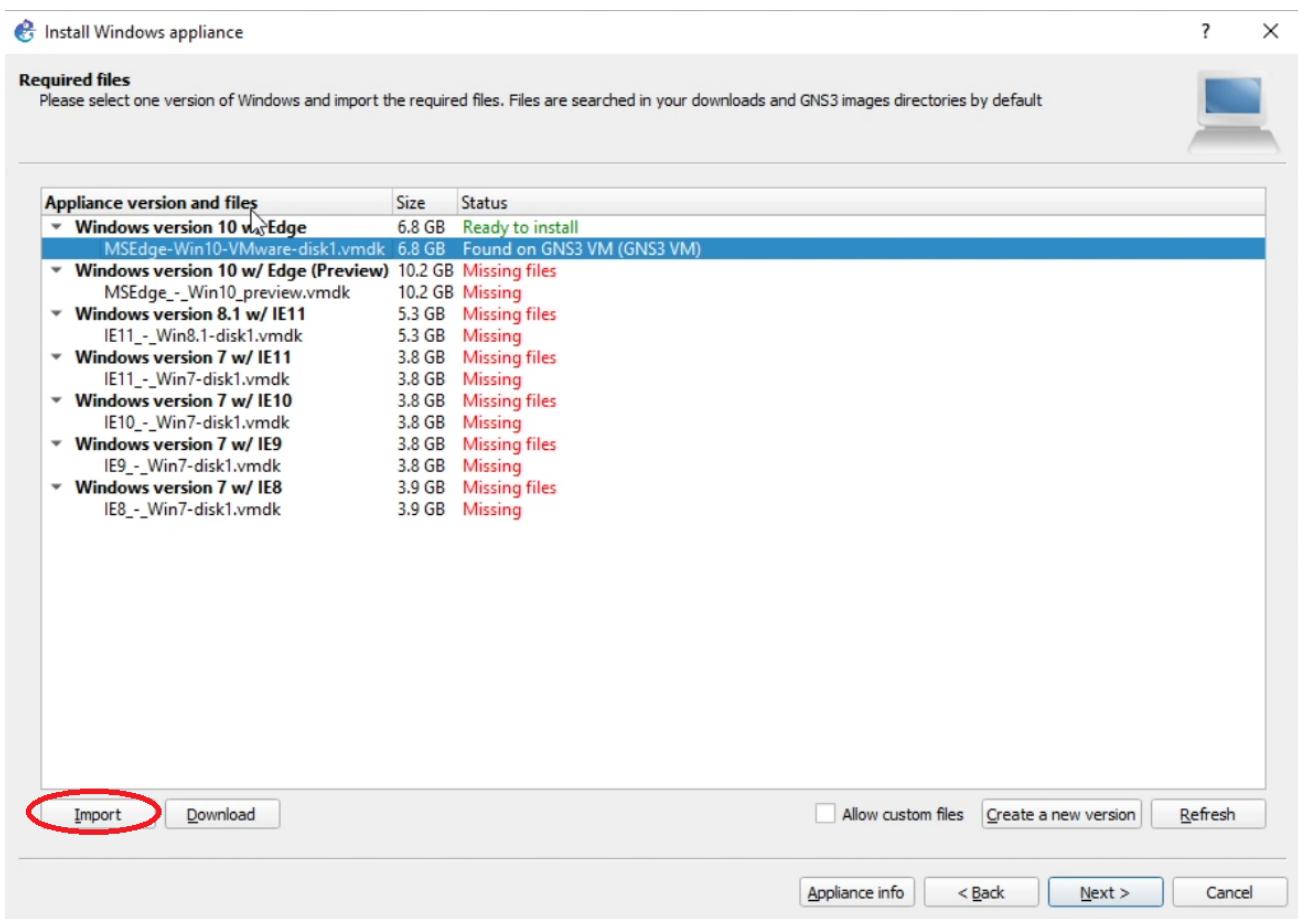
Windows 10 with Legacy Microsoft Edge and Internet Explorer 11

Choose a VM platform:

- VirtualBox >
- Vagrant >
- HyperV (Windows) >
- VMware (Windows, Mac) >** (highlighted with a red circle)
- Parallels (Mac) >

Before installing, please note:

Voltando ao GNS, basta agora clicar na opção **Import** e apontar o caminho onde o arquivo foi salvo:



Required files

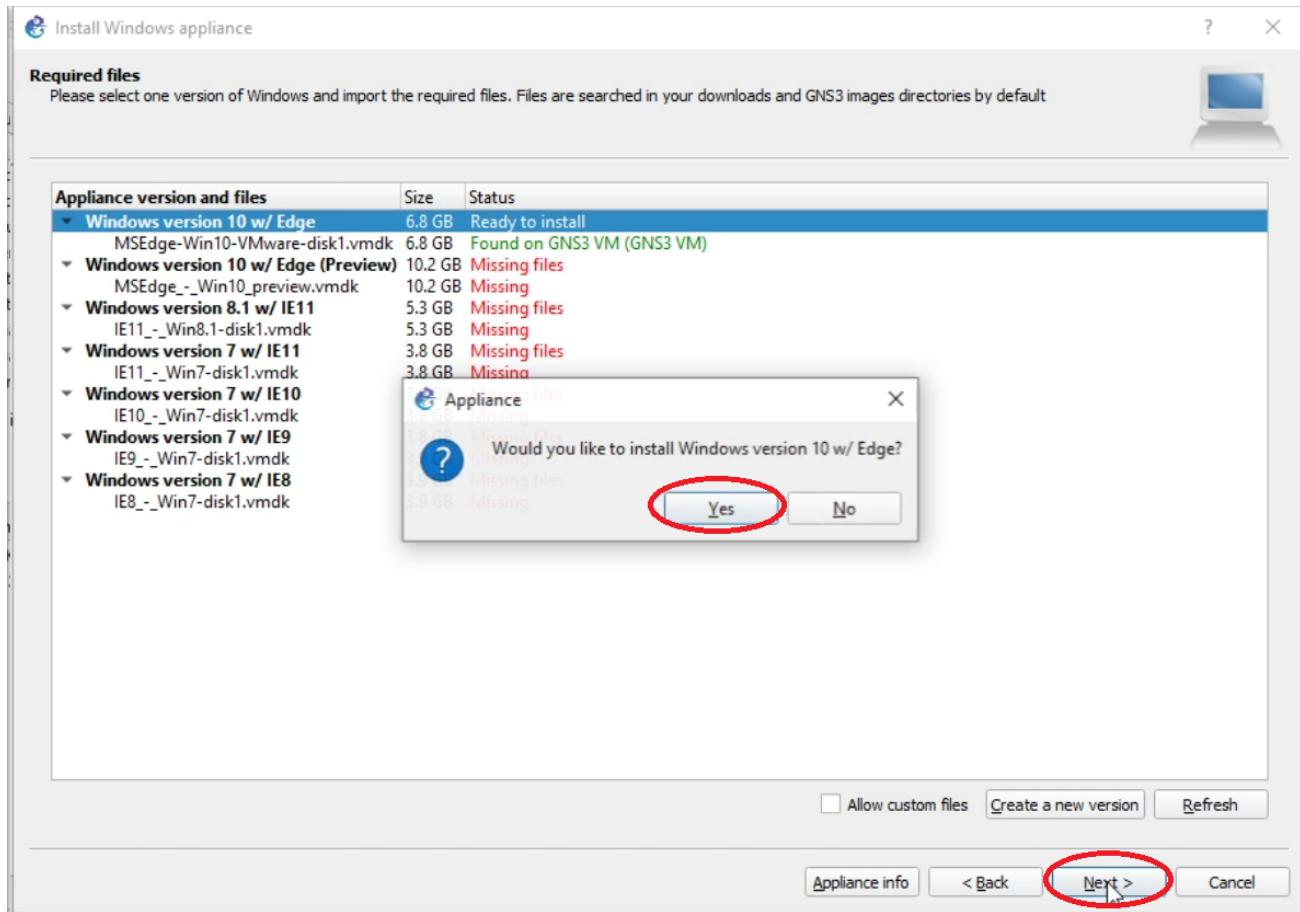
Please select one version of Windows and import the required files. Files are searched in your downloads and GNS3 images directories by default

Appliance version and files	Size	Status
Windows version 10 w/ Edge	6.8 GB	Ready to install
MSEdge-Win10-VMware-disk1.vmdk	6.8 GB	Found on GNS3 VM (GNS3 VM)
Windows version 10 w/ Edge (Preview)	10.2 GB	Missing files
MSEdge_-_Win10_preview.vmdk	10.2 GB	Missing
Windows version 8.1 w/ IE11	5.3 GB	Missing files
IE11_-_Win8.1-disk1.vmdk	5.3 GB	Missing
Windows version 7 w/ IE11	3.8 GB	Missing files
IE11_-_Win7-disk1.vmdk	3.8 GB	Missing
Windows version 7 w/ IE10	3.8 GB	Missing files
IE10_-_Win7-disk1.vmdk	3.8 GB	Missing
Windows version 7 w/ IE9	3.8 GB	Missing files
IE9_-_Win7-disk1.vmdk	3.8 GB	Missing
Windows version 7 w/ IE8	3.9 GB	Missing files
IE8_-_Win7-disk1.vmdk	3.9 GB	Missing

**Import** (highlighted with a red circle) **Download**  Allow custom files **Create a new version** **Refresh**

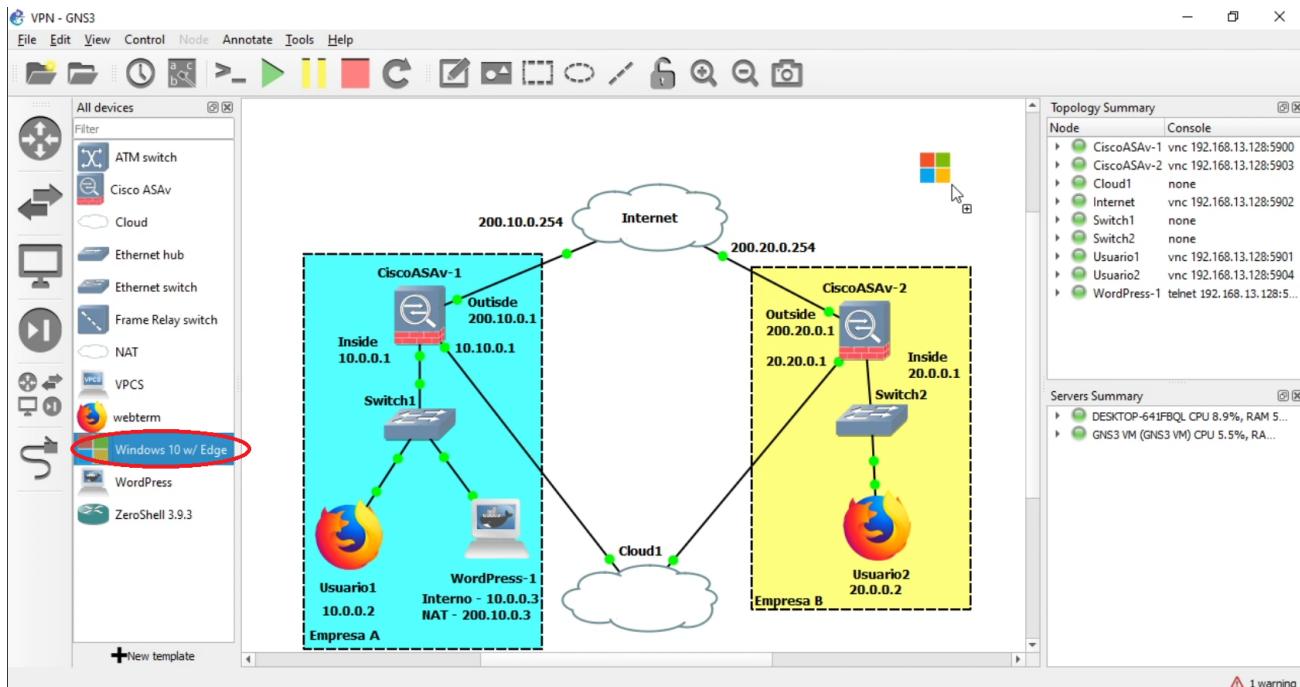
**Appliance info** **< Back** **Next >** **Cancel**

Clique em **Yes** e, em seguida, **Next** para concluir a instalação:

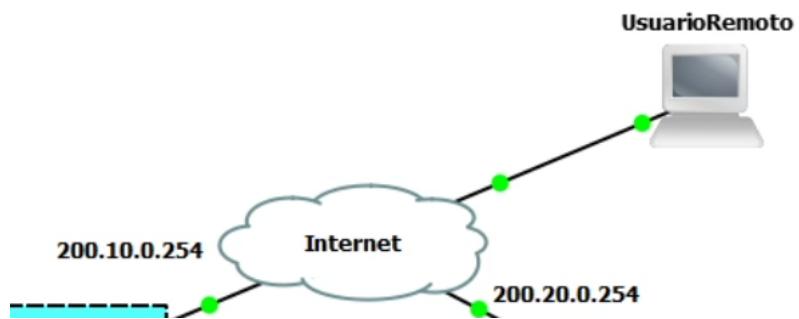


Pronto, a imagem já está instalada.

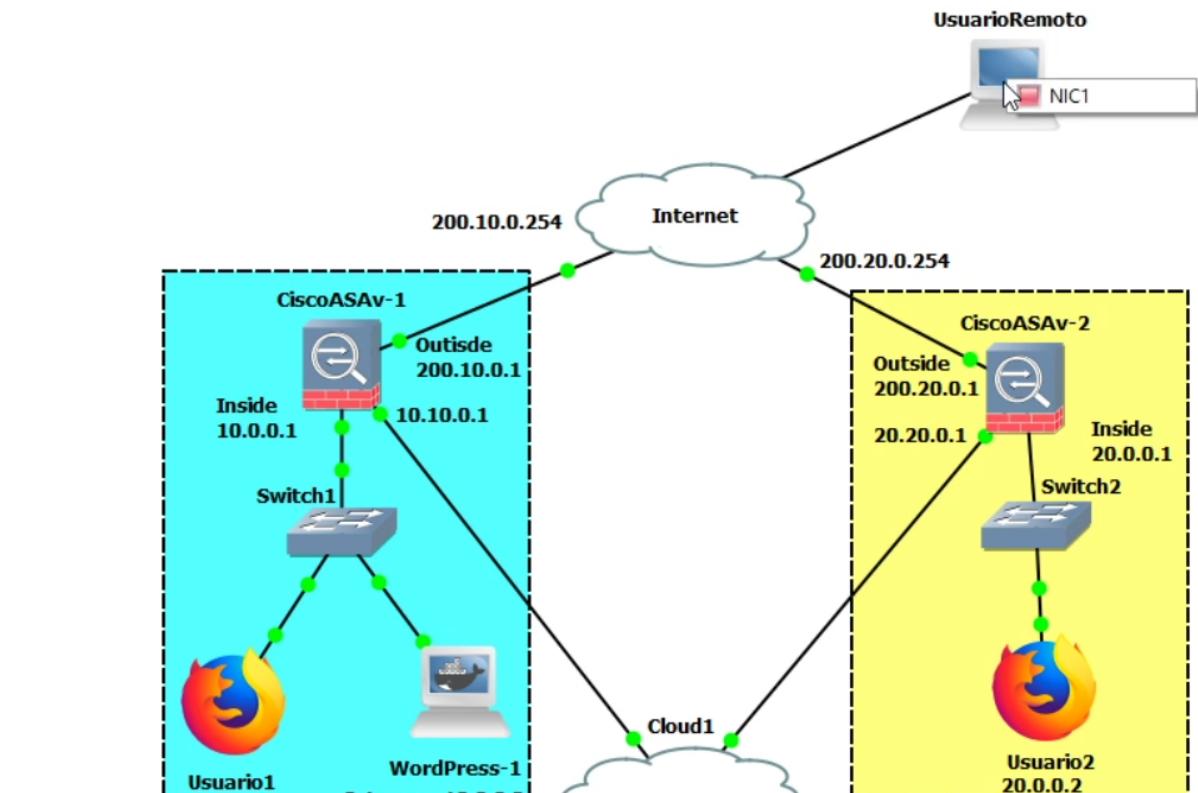
Voltando ao nosso projeto no GNS3, arraste o ícone do recém adicionado **Windows 10** para a área de trabalho:



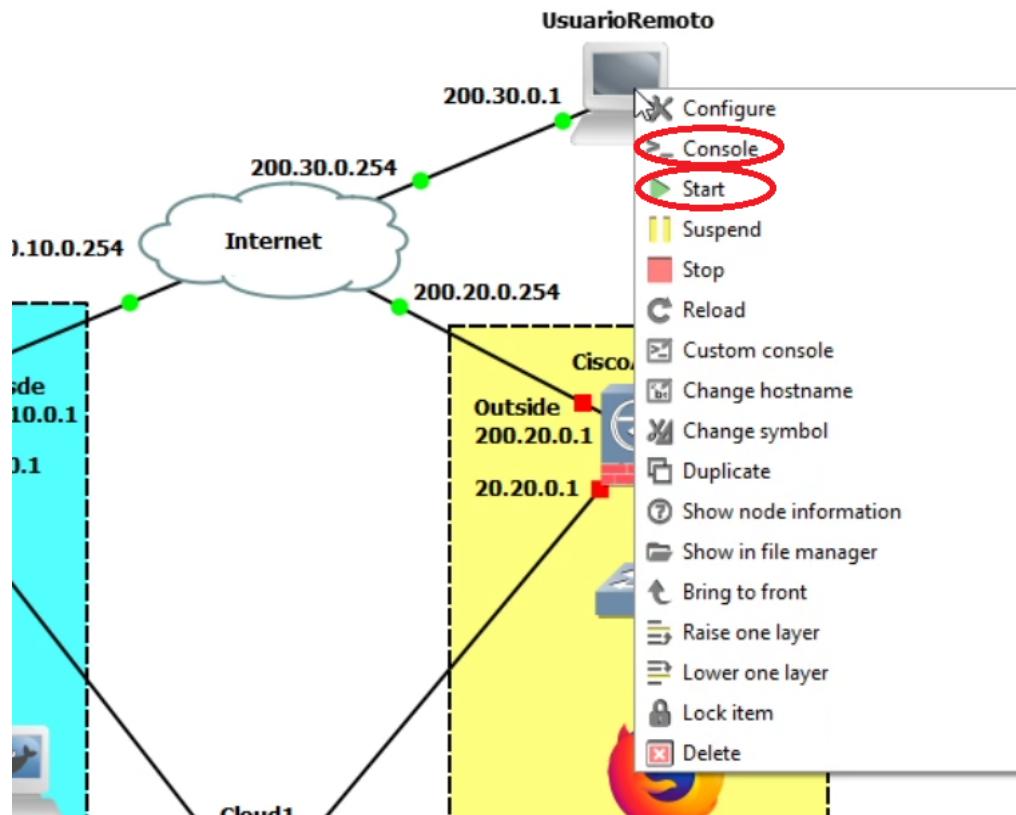
Se quiser, altere o hostname para **UsuarioRemoto** e o ícone do novo elemento, a exemplo do que fizemos com os firewalls:



Faça a conexão do **UsuarioRemoto** com a nuvem de internet:

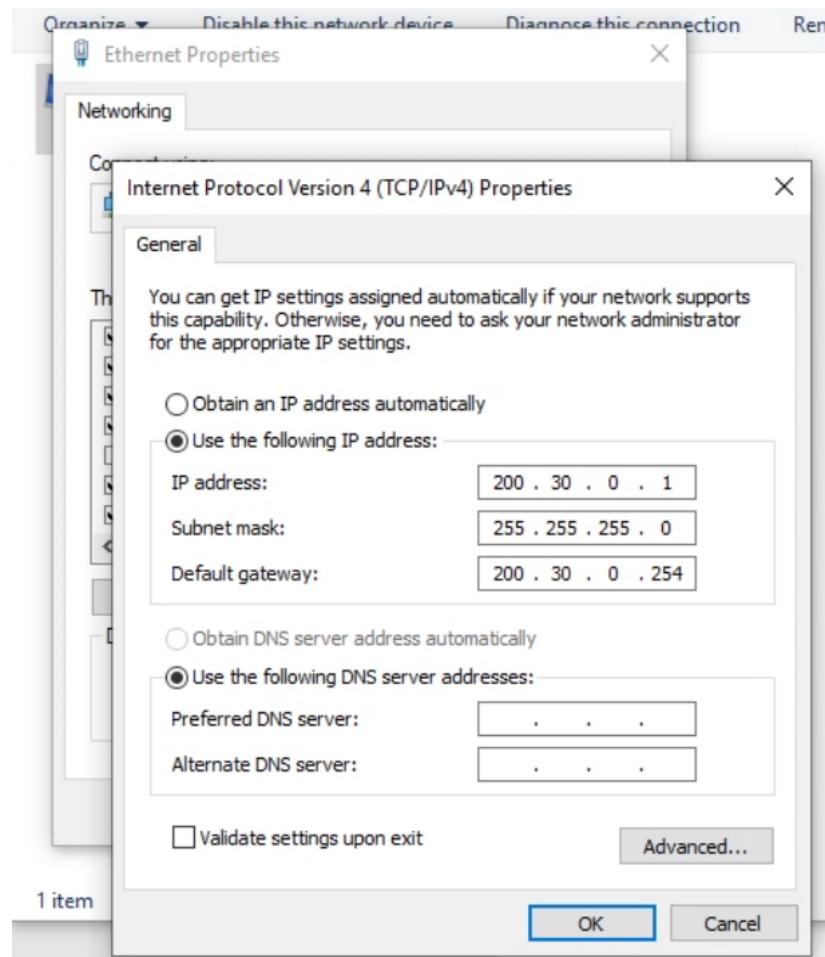


Dê o "start" no Windows 10 e, em seguida, abra a console:

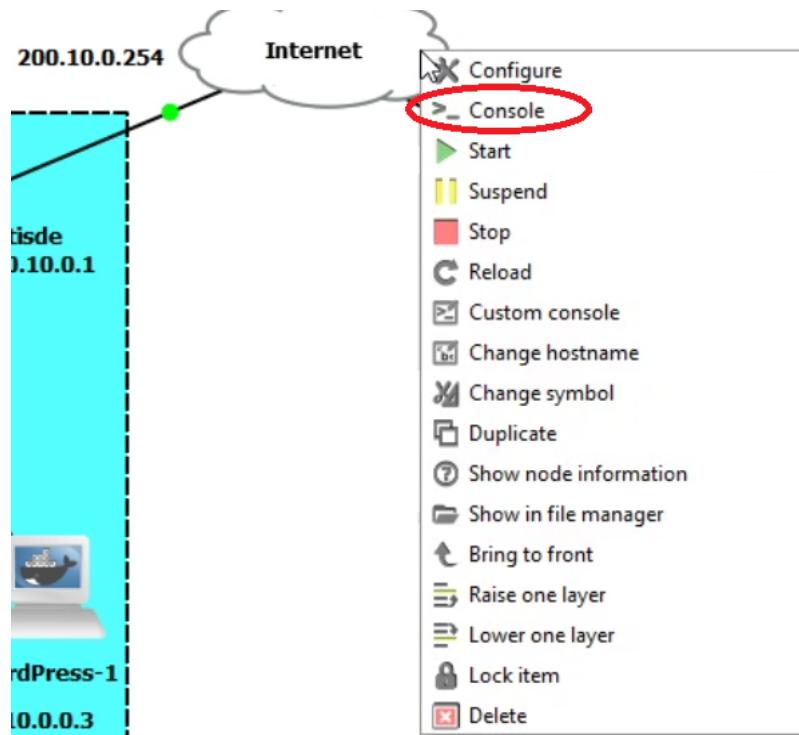
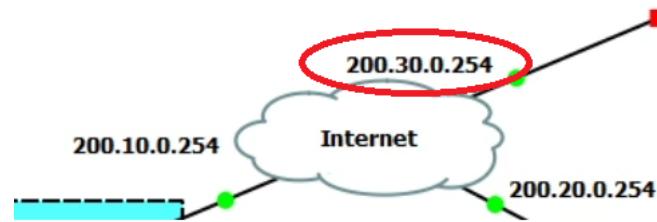


Por padrão, a senha para fazer login nessa estação será: **Passw0rd!**.

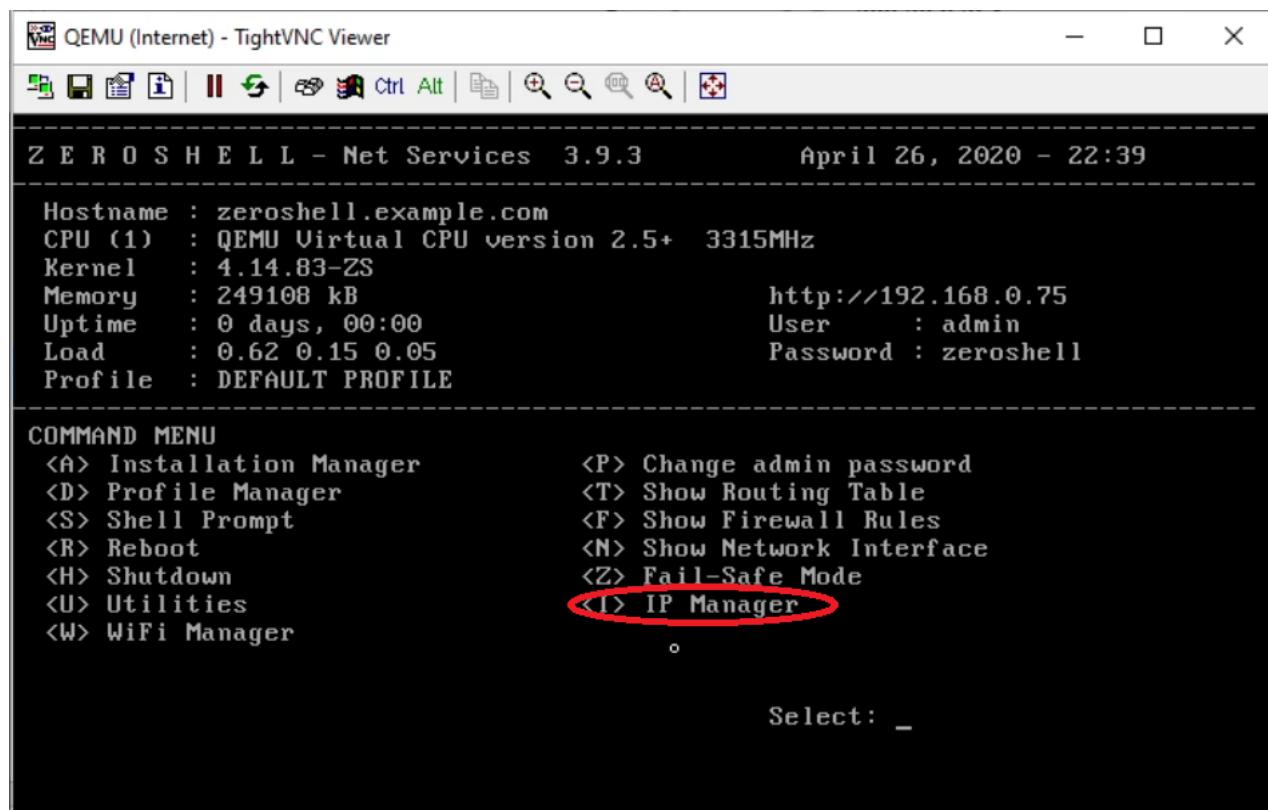
O próximo passo, é adicionar um IP na placa de rede do Windows 10. Vamos adicionar o IP 200.30.0.1:



Não se esqueça de configurar o IP do lado da “Internet”, abrindo a console da nuvem de Internet (botão direito e, então, console):



Digite **I** para entrar na opção IP Manager:



Digite **A** para adicionar um IP em alguma interface:

```

ETH02 - Intel Corporation 82540EM Gigabit Ethernet Controller (rev 03)
  Status: No link detected

ETH03 - Intel Corporation 82540EM Gigabit Ethernet Controller (rev 03)
  Status: No link detected

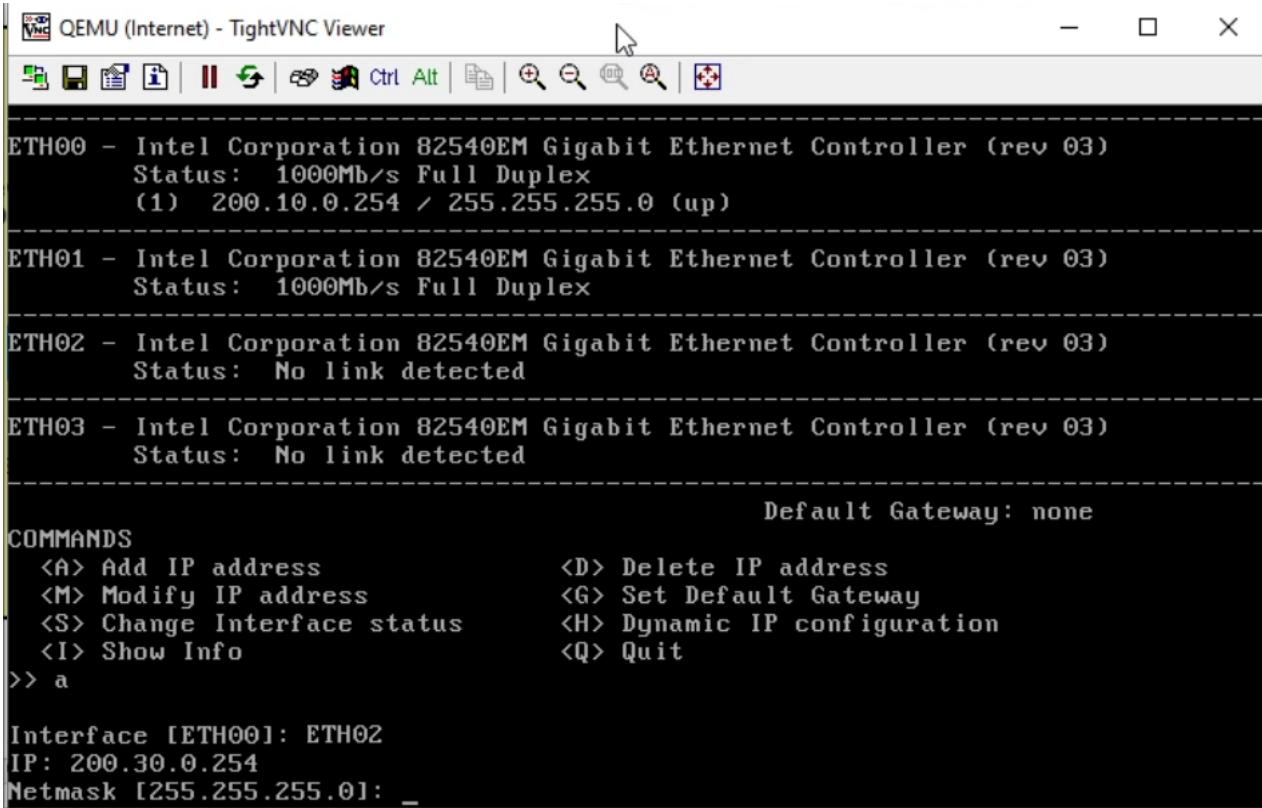
                                         Default Gateway: none

COMMANDS
  <A> Add IP address          <D> Delete IP address
  <M> Modify IP address       <G> Set Default Gateway
  <S> Change Interface status <H> Dynamic IP configuration
  <I> Show Info               <Q> Quit
>> -

```

Em seguida, preencha o prompt de menus com as informações.

Vamos adicionar o IP 200.30.0.254, máscara 255.255.255.0 na interface ETH02:



```

QEMU (Internet) - TightVNC Viewer

ETH00 - Intel Corporation 82540EM Gigabit Ethernet Controller (rev 03)
  Status: 1000Mb/s Full Duplex
  (1) 200.10.0.254 / 255.255.255.0 (up)

ETH01 - Intel Corporation 82540EM Gigabit Ethernet Controller (rev 03)
  Status: 1000Mb/s Full Duplex

ETH02 - Intel Corporation 82540EM Gigabit Ethernet Controller (rev 03)
  Status: No link detected

ETH03 - Intel Corporation 82540EM Gigabit Ethernet Controller (rev 03)
  Status: No link detected

                                         Default Gateway: none

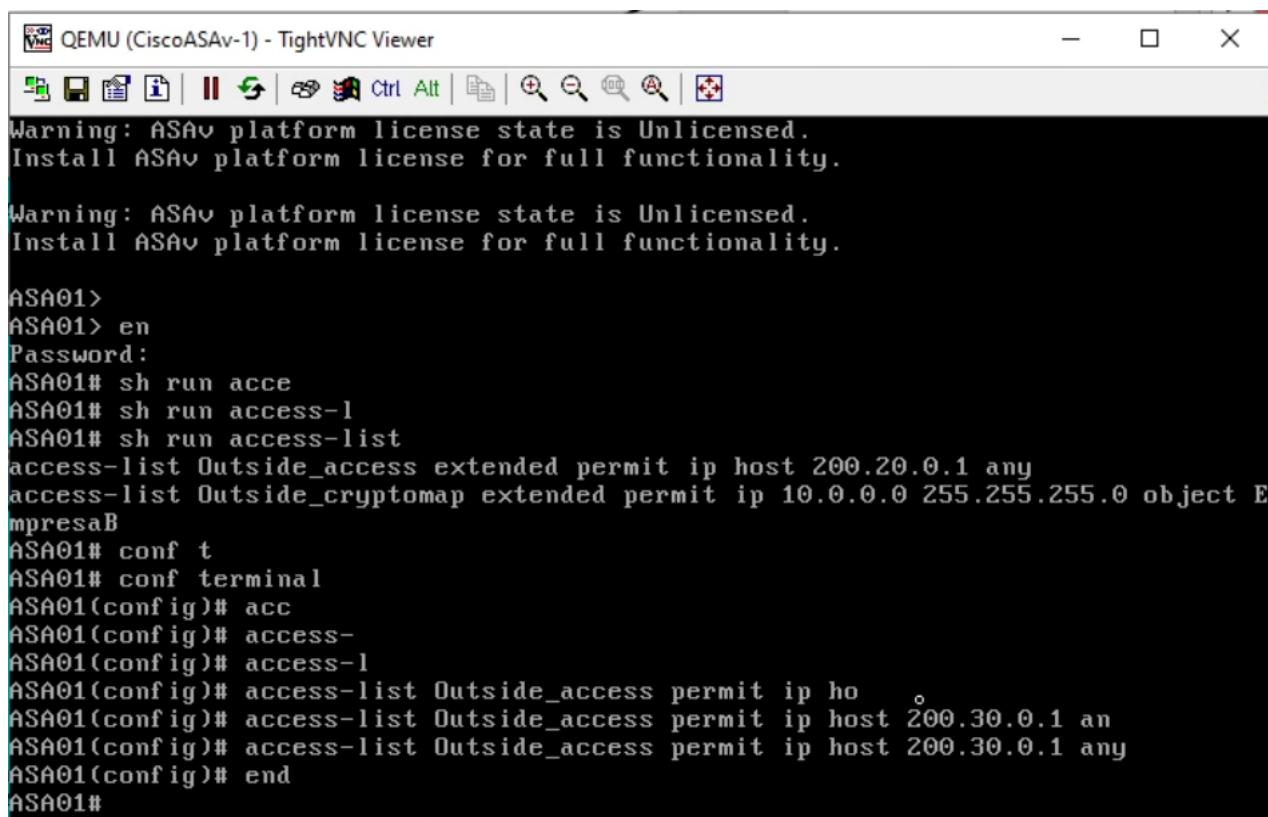
COMMANDS
  <A> Add IP address          <D> Delete IP address
  <M> Modify IP address       <G> Set Default Gateway
  <S> Change Interface status <H> Dynamic IP configuration
  <I> Show Info               <Q> Quit
>> a

Interface [ETH00]: ETH02
IP: 200.30.0.254
Netmask [255.255.255.0]: _

```

''' Interface: ETH02 IP: 200.30.0.254 Netmask: 255.255.255.0 '''

Abra agora a console do firewall da Empresa A e adicione uma “access-list”, permitindo o tráfego do usuário para dentro da Empresa A:



```

QEMU (CiscoASA-1) - TightVNC Viewer

Warning: ASA01 platform license state is Unlicensed.
Install ASA01 platform license for full functionality.

Warning: ASA01 platform license state is Unlicensed.
Install ASA01 platform license for full functionality.

ASA01>
ASA01> en
Password:
ASA01# sh run acce
ASA01# sh run access-1
ASA01# sh run access-list
access-list Outside_access extended permit ip host 200.20.0.1 any
access-list Outside_cryptomap extended permit ip 10.0.0.0 255.255.255.0 object EmpresaB
ASA01# conf t
ASA01# conf terminal
ASA01(config)# acc
ASA01(config)# access-
ASA01(config)# access-1
ASA01(config)# access-list Outside_access permit ip ho .
ASA01(config)# access-list Outside_access permit ip host 200.30.0.1 an
ASA01(config)# access-list Outside_access permit ip host 200.30.0.1 any
ASA01(config)# end
ASA01#

```

''' ASA01# conf terminal ASA01(config)# access-list Outside\_access permit ip host 200.30.0.1 any '''

Pronto! Agora o UsuárioRemoto já tem acesso aos recursos da Empresa A. Abra o Windows 10 e faça o teste, chamando o IP 200.10.0.3:

