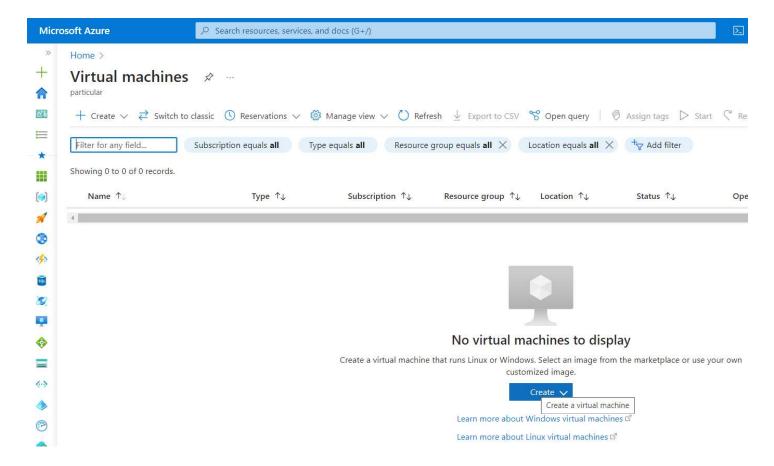
How to create an Azure Virtual Machine with Ubuntu Server and with a GUI Desktop

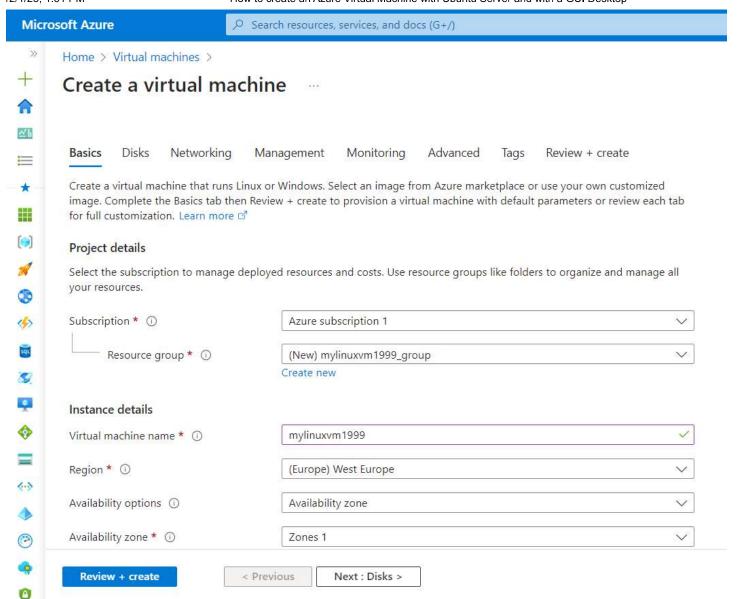
1. INSTALL AND CONFIGURE xrdp TO USE REMOTE DESKTOP WITH UBUNTU

https://learn.microsoft.com/en-us/azure/virtual-machines/linux/use-remote-desktop?tabs=azure-cli

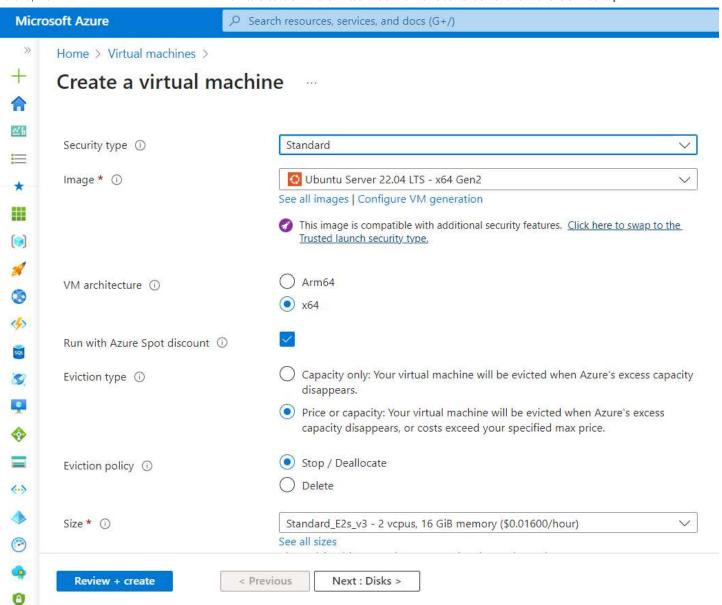
1.1. Create an Azure Virtual Machine with Ubuntu Server installed



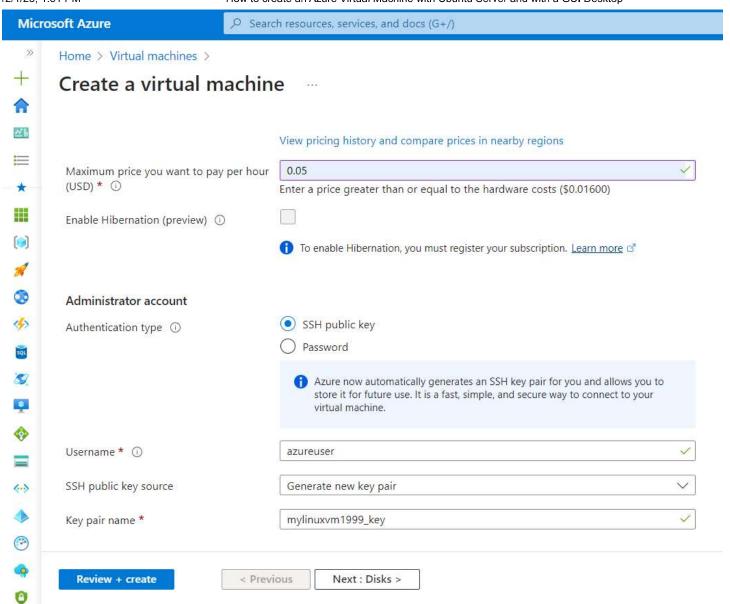
https://md2pdf.netlify.app 1/14



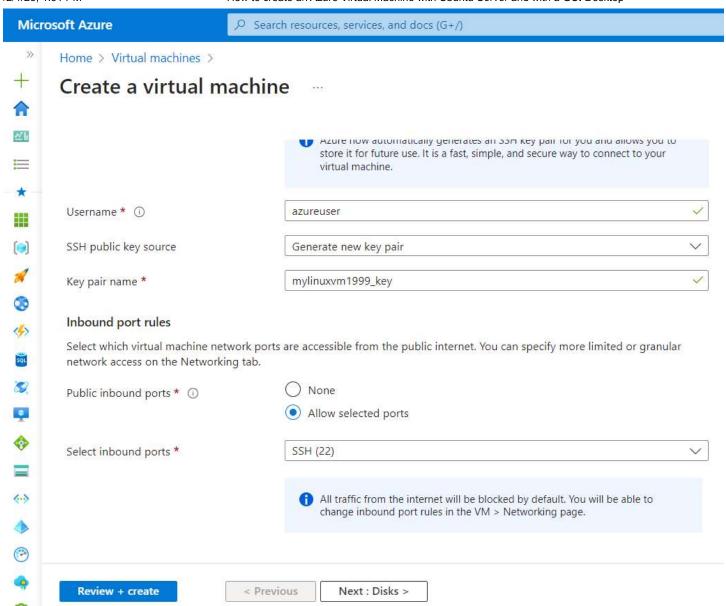
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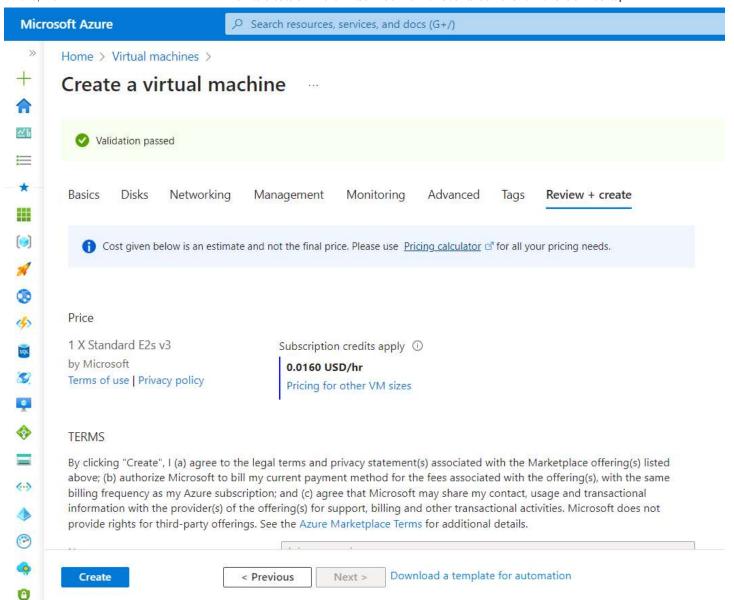
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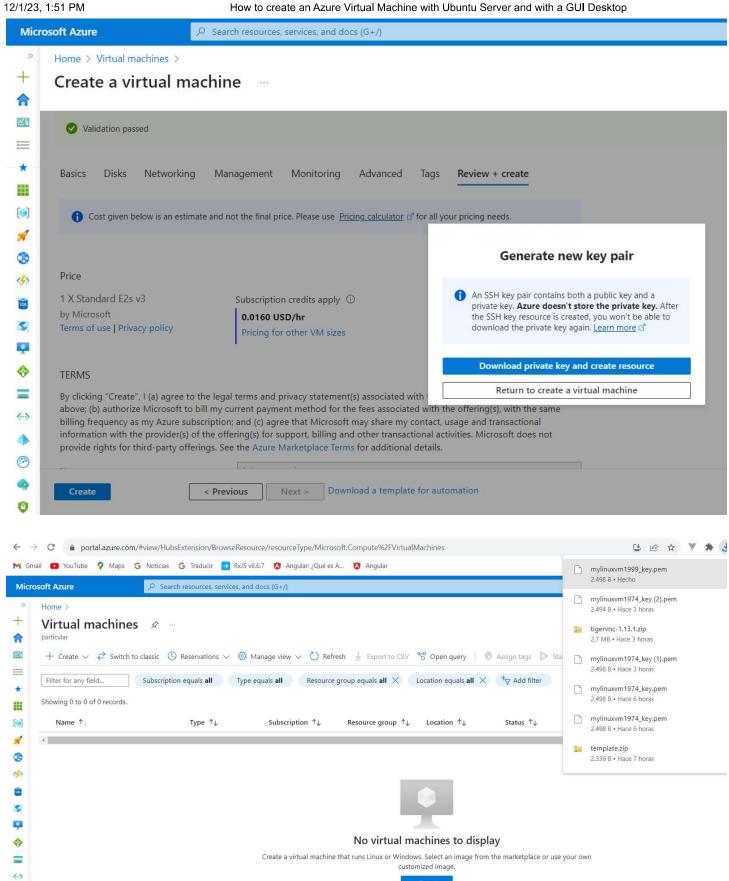
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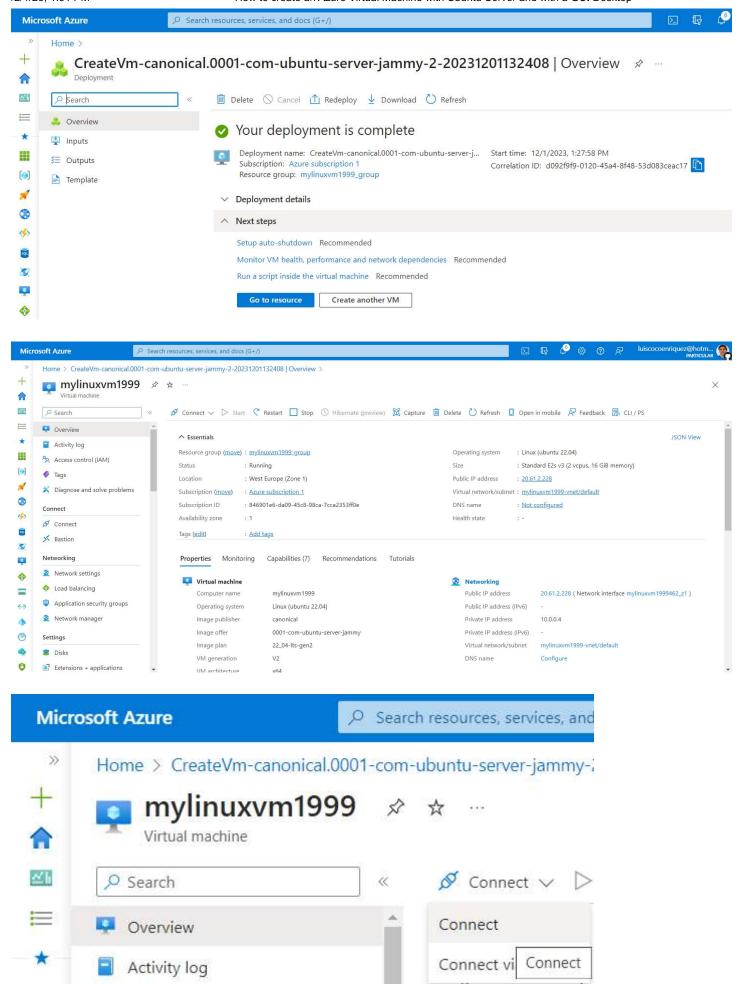


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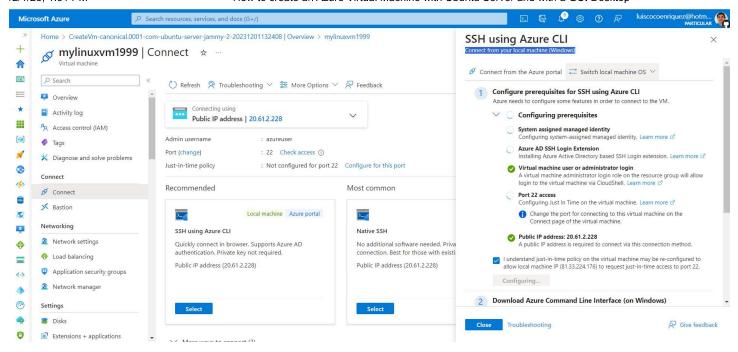


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Learn more about Windows virtual machines & Learn more about Linux virtual machines of

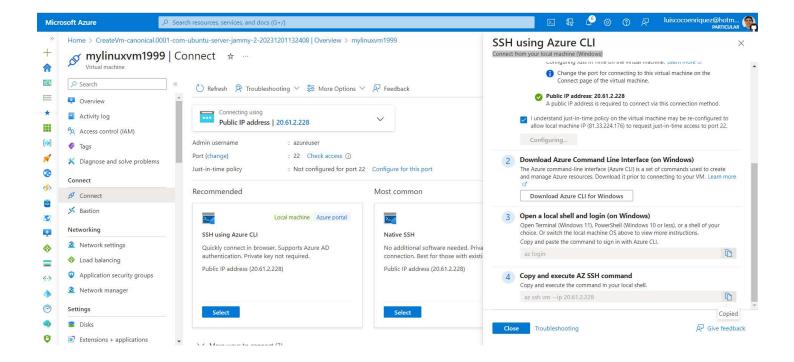


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Open a command prompt window and type the commands to access into the Linux VM:

az ssh vm --ip 20.61.2.228



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```
Iuiscocoenriquez@hotmail.co ×
C:\Users\luisc>az ssh vm --ip 20.61.2.228
OpenSSH_for_Windows_8.6p1, LibreSSL 3.4.3
The authenticity of host '20.61.2.228 (20.61.2.228)' can't be established.
ED25519 key fingerprint is SHA256:xrDs/huqyK1Hg3bXKsN2npINavFzuWgcmeKc+6TgEVI.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes Warning: Permanently added '20.61.2.228' (ED25519) to the list of known hosts. Learned new hostkey: RSA SHA256:5PqBNYY5DebX0Kr0/S5i0rsAg1Z1Mx/rR++MhfR0 Learned new hostkey: ECDSA SHA256:V9nGMrbizJblSDWf81AYIpEYishzuqerEVljx3kcg3M
Adding new key for 20.61.2.228 to C:\\Users\\luisc/.ssh/known_hosts: ssh-rsa SHA256:5PqBNYY5DebX0Kr0/S5i0rsdmx28jZ1Mx/rR
++MhfR0
Adding new key for 20.61.2.228 to C:\\Users\\luisc/.ssh/known_hosts: ecdsa-sha2-nistp256 SHA256:V9nGMrbizJblSDWf81AYIpEY
ishzuqerEVljx3kcg3M
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 6.2.0-1016-azure x86_64)
 * Documentation: https://help.ubuntu.com

* Management: https://landscape.canonical.com

* Support: https://ubuntu.com/advantage
   System information as of Fri Dec 1 12:40:06 UTC 2023
   System load: 0.15576171875
Usage of /: 5.8% of 28.89GB
                                                     Processes:
                                                                                         125
                                                     Users logged in:
   Memory usage: 2%
                                                     IPv4 address for eth0: 10.0.0.4
   Swap usage:
                       0%
Expanded Security Maintenance for Applications is not enabled.
45 updates can be applied immediately.
```

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```
luiscocoenriquez@hotmail.co ×
                          + ~
 System information as of Fri Dec 1 12:40:06 UTC 2023
                                  Processes:
 System load: 0.15576171875
                                                         125
 Usage of /:
                5.8% of 28.89GB
                                  Users logged in:
                                  IPv4 address for eth0: 10.0.0.4
 Memory usage: 2%
  Swap usage:
                0%
Expanded Security Maintenance for Applications is not enabled.
45 updates can be applied immediately.
33 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
luiscocoenriquez@hotmail.com@mylinuxvm1999:~$
```

```
luiscocoenriquez@hotmail.com@mylinuxvm1999:~$ sudo apt-get update
Hit:1 http://azure.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://azure.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://azure.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:4 http://azure.archive.ubuntu.com/ubuntu jammy-security InRelease
Hit:5 https://packages.microsoft.com/repos/microsoft-ubuntu-jammy-prod jammy InRelease
Reading package lists... Done
luiscocoenriquez@hotmail.com@mylinuxvm1999:~$
```

1.2. Run these commands to stall "xfce" using "apt":

```
sudo apt-get update
sudo DEBIAN_FRONTEND=noninteractive apt-get -y install xfce4
sudo apt install xfce4-session
```

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1.3. Install and configure a remote desktop server:

```
sudo apt-get -y install xrdp
sudo systemctl enable xrdp
sudo adduser xrdp ssl-cert
echo xfce4-session >~/.xsession
sudo service xrdp restart
```

1.4. Set a local user account password

sudo passwd azureuser

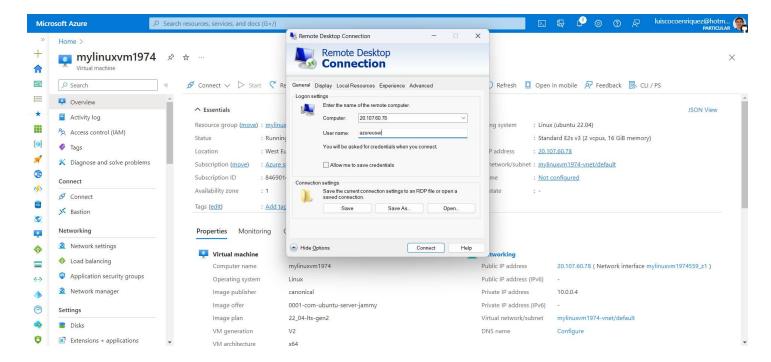
2. HOW TO CREATE A NEW INBOUND RULE FOR THE REMOTE DESKTOP CONNECTION

Now exit from the Linux VM and type the following command in your command prompt

az vm open-port --resource-group mylinuxvm1974 group --name mylinuxvm1974 --port 3389

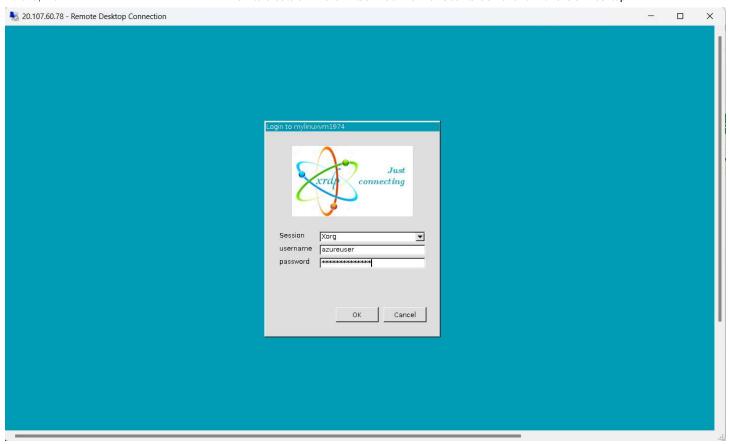
3. OPEN REMOTE DESKTOP CONNECTION

Now Open "Remote Desktop Connection" application and type the Azure VM Public IP address and the username "azureuser" and then press connect:



Then enter the password to access the Linux GUI Desktop

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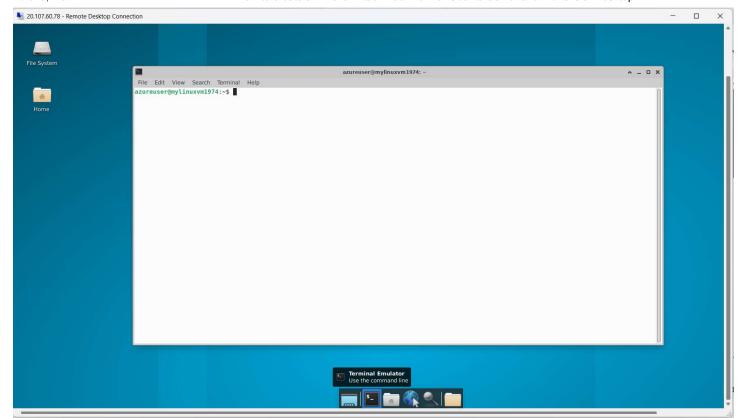




3.1. HOW TO INSTALL VSCODE

Open a Terminal Emulator window and run the following commands to install the VSCode application

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```
sudo apt install software-properties-common apt-transport-https wget
wget -q https://packages.microsoft.com/keys/microsoft.asc -0- | sudo apt-key add -
sudo add-apt-repository "deb [arch=amd64] https://packages.microsoft.com/repos/vscode stable m
sudo apt update
sudo apt install code
```

3.2. HOW TO INSTALL GOOGLE CHROME

```
wget https://dl.google.com/linux/direct/google-chrome-stable_current_amd64.deb
sudo dpkg -i google-chrome-stable current amd64.deb
```

3.3. HOW TO INSTALL .NET 8 SDK

```
wget https://packages.microsoft.com/config/ubuntu/20.04/packages-microsoft-prod.deb -0 package
sudo dpkg -i packages-microsoft-prod.deb

sudo apt update
sudo apt install -y apt-transport-https
sudo apt update
sudo apt install -y dotnet-sdk-8.0

dotnet --version
```

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