Intro to Devops

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Lab-1-Module-WorkLoad(Virtual Machine)

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Task 1: Create the virtual machine

Create a virtual machine

All services >

Help me create a low cost VM | Help me create a VM optimized for high availability | Help me choose the right VM size for my workload

ℹ This subscription may not be eligible to deploy VMs of certain sizes in certain regions.

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ	Azure subscription 1
Resource group * ⓘ	(New) Lab1-rg
	Create new

Instance details

Virtual machine name * ⓘ	myvm
Region * ⓘ	(US) East US
Availability options ⓘ	Availability zone
Zone options ⓘ	⦿ Self-selected zone
	Choose up to 3 availability zones, one VM per zone

< Previous | Next : Disks > | Review + create

⊕ Upgrade   🔍 Search resources, services, and docs (G+/)   🎨 Copilot ⌨ 🔔

All services >

Create a virtual machine ...

🎨 [Help me create a low cost VM] [Help me create a VM optimized for high availability] [Help me choose the right VM size for my workload]

Virtual machine name * ⓘ   [myvm   ✓]

Region * ⓘ   [(US) East US   ⌄]

Availability options ⓘ   [Availability zone   ⌄]

Zone options ⓘ   ⦿ Self-selected zone
                        Choose up to 3 availability zones, one VM per zone

                        ○ Azure-selected zone (Preview)
                        Let Azure assign the best zone for your needs

                        ⓘ Using an Azure-selected zone is not supported in region 'East US'.

Availability zone * ⓘ   [Zone 2   ⌄]

                        🔹 You can now select multiple zones. Selecting multiple zones will create one VM
                        per zone. Learn more ↗

Security type ⓘ   [Trusted launch virtual machines   ⌄]
                        Configure security features
                        ⓘ Trusted launch virtual machine is required when using 1P Gallery images.

Image * ⓘ   [⊞ Windows Server 2019 Datacenter - x64 Gen2 (free services eligible) ⌄]
                        See all images | Configure VM generation

[< Previous]   [Next : Disks >]   [Review + create]

Create a virtual machine ...

Help me create a low cost VM	Help me create a VM optimized for high availability	Help me choose the right VM size for my workload

◉ x64

ⓘ Arm64 is not supported with the selected image.

Run with Azure Spot discount ⓘ ☐

ⓘ You are in the free trial period. Costs associated with this VM can be covered by any remaining credits on your subscription.
Learn more ⧉

Size * ⓘ [Standard_D2s_v3 - 2 vcpus, 8 GiB memory ($137.24/month) ▾]

See all sizes

Enable Hibernation ⓘ ☐

ⓘ Hibernate is not supported by the size that you have selected. Choose a size that is compatible with Hibernate to enable this feature. Learn more ⧉

Administrator account

Username * ⓘ [azureuser ✓]

Password * [••••••••••• ✓]

Confirm password * [••••••••••• ✓]

[< Previous] [Next : Disks >] [Review + create]

Create a virtual machine ...

Help me create a low cost VM	Help me create a VM optimized for high availability	Help me choose the right VM size for my workload

ⓘ Hibernate is not supported by the size that you have selected. Choose a size that is compatible with Hibernate to enable this feature. Learn more ⧉

Administrator account

Username * ⓘ
```
azureuser ✓
```

Password *
```
•••••••••••• ✓
```

Confirm password *
```
•••••••••••• ✓
```

Inbound port rules

Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

Public inbound ports * ⓘ
○ None
● Allow selected ports

Select inbound ports *
```
HTTP (80), RDP (3389) ▼
```

⚠ **This will allow all IP addresses to access your virtual machine.** This is only recommended for testing. Use the Advanced controls in the Networking tab to create rules to limit inbound traffic to known IP addresses.

< Previous	Next : Disks >	**Review + create**

Create a virtual machine ...

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Virtual network ⓘ
```
(new) myvm-vnet ▼
```
Create new

Subnet * ⓘ
```
(new) default (10.0.0.0/24) ▼
```

Public IP ⓘ
```
▼
```
Create new

NIC network security group ⓘ
○ None
● Basic
○ Advanced

Public inbound ports * ⓘ
○ None
● Allow selected ports

Select inbound ports *
```
HTTP (80), RDP (3389) ▼
```

⚠ **This will allow all IP addresses to access your virtual machine.** This is only recommended for testing. Use the Advanced controls in the Networking tab to create rules to limit inbound traffic to known IP addresses.

Delete public IP and NIC when VM is deleted ⓘ
☐

< Previous	Next : Management >	**Review + create**

Basics   Disks   Networking   Management   **Monitoring**   Advanced   Tags   Review + create

Configure monitoring options for your VM.

Alerts

Enable recommended alert rules ⓘ   ☐

Diagnostics

Boot diagnostics ⓘ
- ○ Enable with managed storage account (recommended)
- ○ Enable with custom storage account
- ● Disable

Enable OS guest diagnostics ⓘ   ☐

Health

Enable application health monitoring ⓘ   ☐

Create a virtual machine   ...   ✕

✓ Validation passed

| Help me create a low cost VM | Help me create a VM optimized for high availability | Help me choose the right VM size for my workload |

Basics   Disks   Networking   Management   Monitoring   Advanced   Tags   **Review + create**

Price

1 X Standard D2s v3   Subscription credits apply ⓘ
by Microsoft   **0.1880 USD/hr**
Terms of use | Privacy policy   Pricing for other VM sizes

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the Azure Marketplace Terms for additional details.

⚠ **You have set RDP port(s) open to the internet.** This is only recommended for testing. If you want to change this setting, go back to Basics tab.

| < Previous | Next > | Create | Download a template for automation   Give feedback

Task 2: Connect to the virtual machine

myvm | Connect
Virtual machine

🔍 Search

- 🖥 Overview
- 📋 Activity log
- 🔑 Access control (IAM)
- 🏷 Tags
- 🔧 Diagnose and solve problems
- 🔀 Resource visualizer
- ⌄ Connect
  - 🔌 Connect
  - ✖ Bastion
  - 🖥 Windows Admin Center
- › Networking
- › Settings
- › Availability + scale
- › Security
- › Backup + disaster recovery
- › Operations
- › Monitoring

↻ Refresh   👤 Troubleshoot ⌄   ⚙ More Options ⌄   💬 Feedback

Connecting using
Public IP address | 20.55.18.165   ⌄

Admin username   : azureuser
Port (change)   : 3389   Check access ⓘ
Just-in-time policy   : Unsupported by plan ⓘ
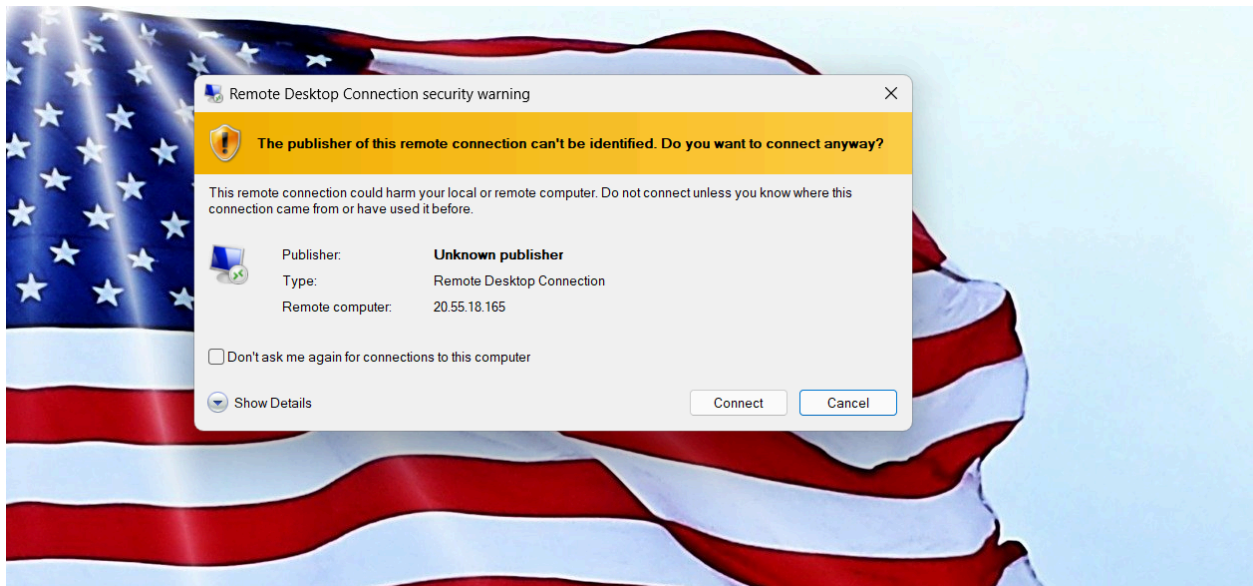
Most common

Local machine

Native RDP

Connect via native RDP without any additional software needed. Recommended for testing only.
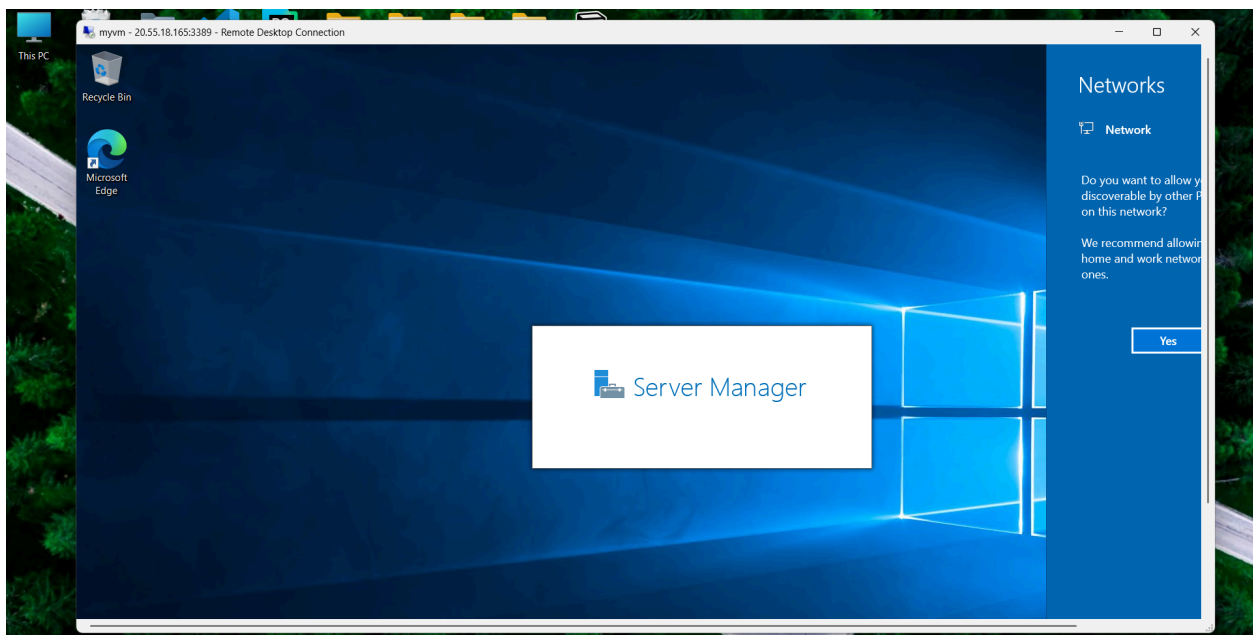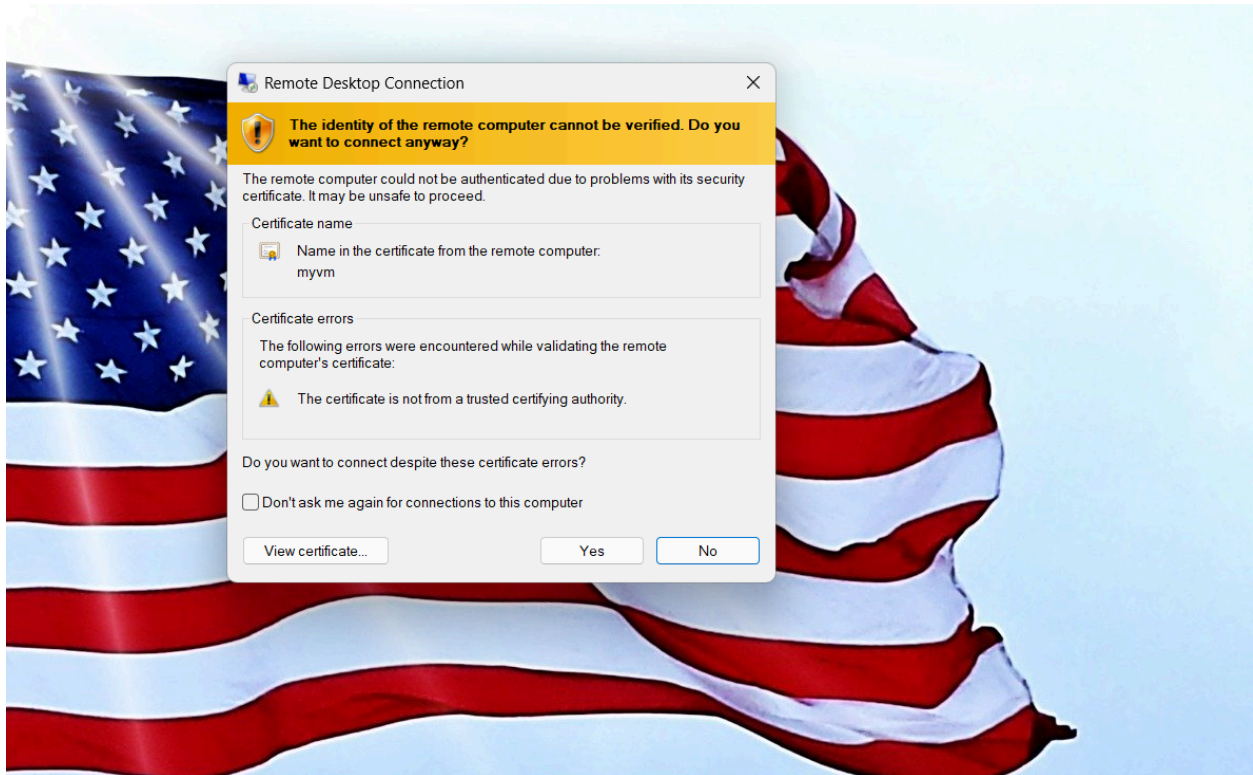
Public IP address (20.55.18.165)

[Select]   [Download RDP file]   ♡

⌄ More ways to connect (4)

Remote Desktop Connection security warning   ✕

⚠ **The publisher of this remote connection can't be identified. Do you want to connect anyway?**

This remote connection could harm your local or remote computer. Do not connect unless you know where this connection came from or have used it before.

Publisher: **Unknown publisher**
Type: Remote Desktop Connection
Remote computer: 20.55.18.165

☐ Don't ask me again for connections to this computer

⌄ Show Details   [Connect]   [Cancel]

Task 3: Install the web server role and test

Networking

Public IP address	20.55.18.165 (Network interface myvm399_z2)
Public IP address (IPv6)	-
Private IP address	10.0.0.4
Private IP address (IPv6)	-
Virtual network/subnet	myvm-vnet/default
DNS name	Configure