

# Creating Azure Subscriptions and Virtual Machines

## Environment and Technologies Used

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- Microsoft Azure
- Remote Desktop

## Operating Systems

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- Windows 10

## Installation Steps

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Microsoft Azure

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Cyberlet

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DEFAULT DIRECTORY

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### 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**

Subscription	Azure subscription 1
Resource group	(new) RG-Cyber-Lab
Virtual machine name	windows-vm
Region	East US 2
Availability options	Availability zone
Zone options	Self-selected zone
Availability zone	1
Security type	Trusted launch virtual machines
Enable secure boot	Yes
Enable vTPM	Yes
Integrity monitoring	No
Image	Windows 10 Pro, version 22H2 - Gen2
VM architecture	x64
Size	Standard DC2ds v3 (2 vcpus, 16 GiB memory)
Enable hibernation	No
Username	labuser
Public inbound ports	RDP
Already have a Windows license?	Yes
License type	Windows Client
Azure Spot	No

**Disks**

OS disk size	Image default
OS disk type	Premium SSD LRS

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## Create Windows 10 Pro Virtual Machine (Name it windows-vm)

- See all sizes, cheap-ish, strong password
- Region: EAST US 2
- Name the Resource Group: **RG-Cyber-Lab**

Name the Virtual Network. **NAME IT "Lab-VNet"**

Microsoft Azure Upgrade Search resources, services, and docs (G+3) Copilot ryanjustindenesun@gmail.com

### 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**

Subscription	Azure subscription 1
Resource group	RG-Cyber-Lab
Virtual machine name	linux-vm
Region	East US 2
Availability options	Availability zone
Zone options	Self-selected zone
Availability zone	1
Security type	Trusted launch virtual machines
Enable secure boot	Yes
Enable vTPM	Yes
Integrity monitoring	No
Image	Ubuntu Server 24.04 LTS - Gen2
VM architecture	x64
Size	Standard DC2ds v3 (2 vcpus, 16 GiB memory)
Enable Hibernation	No
Authentication type	Password
Username	labuser
Public inbound ports	SSH
Azure Spot	No

**Disks**

OS disk size	Image default
OS disk type	Premium SSD LRS
Use managed disks	Yes

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## Create one more Virtual Machine running Ubuntu (Linux) name it: “linux-vm”

- Same Region, Resource Group, and VNet as windows-vm
- Region: EAST US 2
- **For the VM size, do not choose B1s, choose something larger or it'll get DDOS'd and stop creating logs.**
- Ensure you use a username and password instead for authentication

The screenshot shows the Microsoft Azure portal interface. On the left, the navigation pane is open, showing the 'Inbound security rules' section for the 'windows-vm-nsg' network security group. The main pane displays a table of existing rules:

Priority	Name	Port	Protocol	Source
65000	AllowVnetInBound	Any	Any	VirtualNetwork
65001	AllowAzureLoadBalancerInBound	Any	Any	AzureLoadBalancer
65500	DenyAllInBound	Any	Any	Any

On the right, the 'Add inbound security rule' dialog is open. The configuration is as follows:

- Source: Any
- Source port ranges: \*
- Destination: Any
- Service: Custom
- Destination port ranges: \*
- Protocol: Any
- Action: Allow
- Priority: 100
- Name: DANGER\_AllowAnyCustomAnyInbound
- Description: (empty)

Buttons for 'Add' and 'Cancel' are at the bottom of the dialog.

The screenshot shows the Microsoft Azure portal interface. On the left, the navigation pane is open, showing the 'Inbound security rules' section for the 'linux-vm-nsg' network security group. The main pane displays a table of existing rules:

Priority	Name	Port	Protocol	Source
65000	AllowVnetInBound	Any	Any	VirtualNetwork
65001	AllowAzureLoadBalancerInBound	Any	Any	AzureLoadBalancer
65500	DenyAllInBound	Any	Any	Any

On the right, the 'Add inbound security rule' dialog is open. The configuration is as follows:

- Source: Any
- Source port ranges: \*
- Destination: Any
- Service: Custom
- Destination port ranges: \*
- Protocol: Any
- Action: Allow
- Priority: 100
- Name: DANGER\_AllowAnyCustomAnyInbound
- Description: (empty)

Buttons for 'Add' and 'Cancel' are at the bottom of the dialog.

**Open up Network Security Groups for both VMs:**

Configure Network Security Group (Layer 4 Firewall) to allow **all** traffic inbound for both Windows and Linux virtual machines.