Building A Web Server on Azure VM: A step-By Step

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Introduction of Azure VM:

Azure Virtual Machine (VMs) provide on-demand, scalable computing resources. In this guide, we will explore how to set up a Web Server on Azure VM step-by-Step.

Quickstart: Create a Windows virtual machine in the Azure portal

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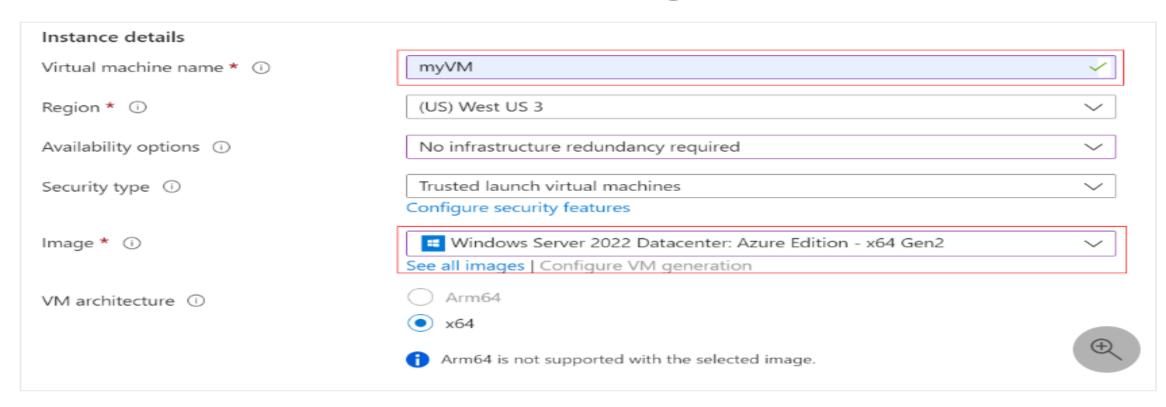
Applies to:
Windows VMs

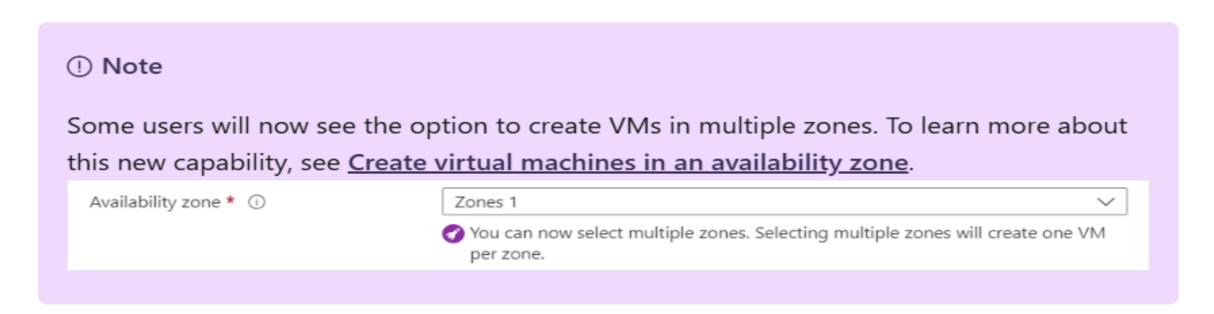
Azure virtual machines (VMs) can be created through the Azure portal. This method provides a browser-based user interface to create VMs and their associated resources. This quickstart shows you how to use the Azure portal to deploy a virtual machine (VM) in Azure that runs Windows Server 2022 Datacenter. To see your VM in action, you then RDP to the VM and install the IIS web server.

If you don't have an Azure subscription, create a free account ☑ before you begin.

Create virtual machine

- 1. Enter virtual machines in the search.
- 2. Under Services, select Virtual machines.
- In the Virtual machines page, select Create and then Azure virtual machine. The Create a virtual machine page opens.
- 4. Under Instance details, enter myVM for the Virtual machine name and choose Windows Server 2022 Datacenter: Azure Edition x64 Gen 2 for the Image. Leave the other defaults.





5. Under **Administrator account**, provide a username, such as *azureuser* and a password. The password must be at least 12 characters long and meet the defined complexity requirements.



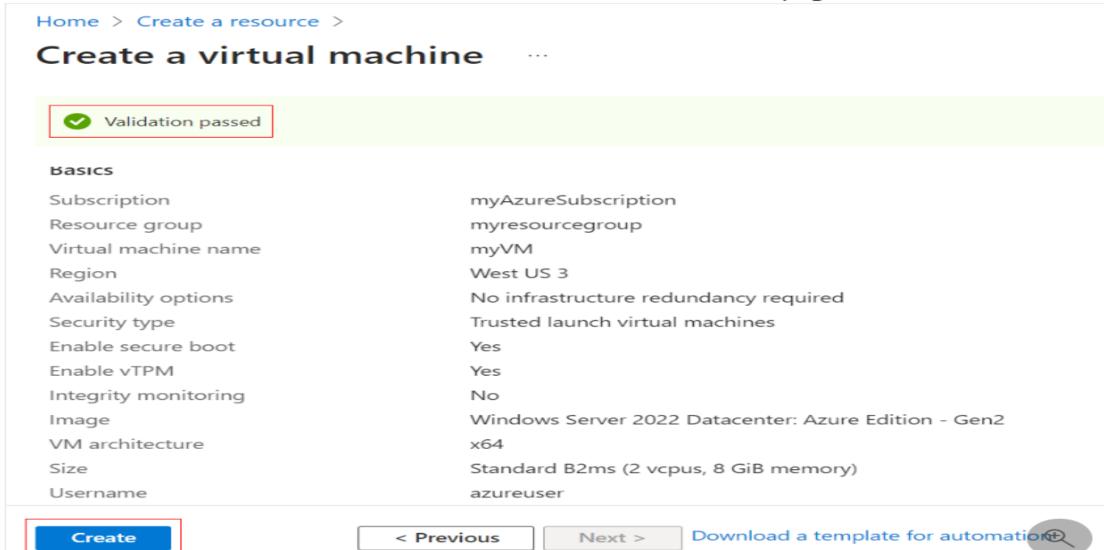
 Under Inbound port rules, choose Allow selected ports and then select RDP (3389) and HTTP (80) from the drop-down.

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network access on the Networking	rk ports are accessible from the public internet. You can specify more lingle. tab.	nited or granular
Public inbound ports * ①	○ None	
	Allow selected ports	
Select inbound ports *	RDP (3389)	~
	This will allow all IP addresses to access your virtual made recommended for testing. Use the Advanced controls in the create rules to limit inbound traffic to known IP addresses.	

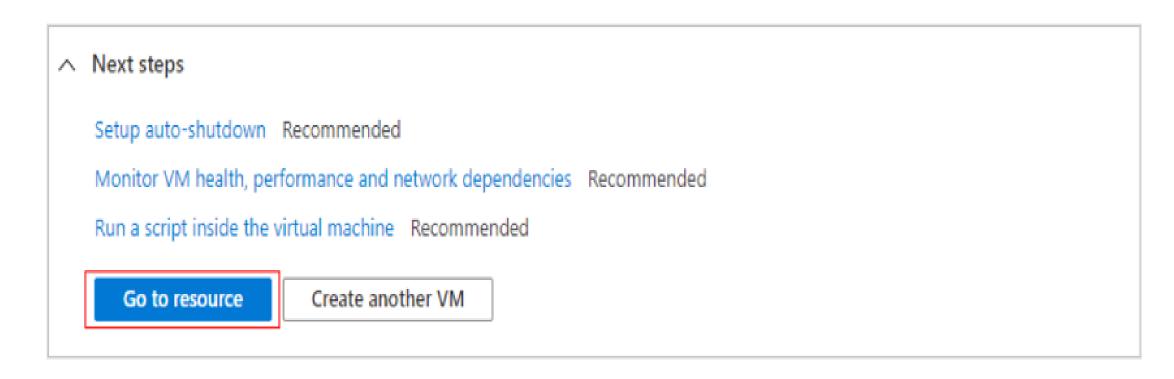
7. Leave the remaining defaults and then select the **Review + create** button at the bottom of the page.

Licensing		
Save up to 49% with a license	you already own using Azure Hybrid Benefit. Learn me	ore of
Would you like to use an exist Windows Server license? * ①	ng	
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8. After validation runs, select the Create button at the bottom of the page.



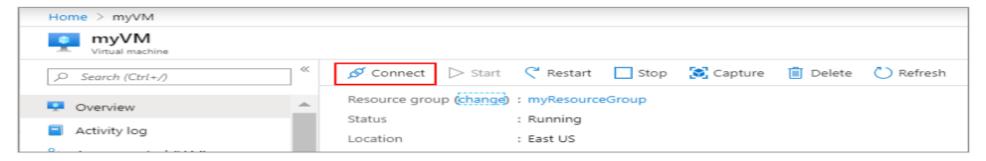
9. After deployment is complete, select **Go to resource**.



Connect to virtual machine

Create a remote desktop connection to the virtual machine. These directions tell you how to connect to your VM from a Windows computer. On a Mac, you need an RDP client such as this Remote Desktop Client description from the Mac App Store.

1. On the overview page for your virtual machine, select the Connect > RDP.



- 2. In the **Connect with RDP** tab, keep the default options to connect by IP address, over port 3389, and click **Download RDP file**.
- 3. Open the downloaded RDP file and click Connect when prompted.
- 4. In the **Windows Security** window, select **More choices** and then **Use a different account**. Type the username as **localhost**\username, enter the password you created for the virtual machine, and then click **OK**.
- 5. You may receive a certificate warning during the sign-in process. Click **Yes** or **Continue** to create the connection.

Install web server

To see your VM in action, install the IIS web server. Open a PowerShell prompt on the VM and run the following command:



When done, close the RDP connection to the VM.

View the IIS welcome page

In the portal, select the VM and in the overview of the VM, hover over the IP address to show **Copy to clipbo** Copy the IP address and paste it into a browser tab. The default IIS welcome page will open, and should look this:



Clean up resources

Delete resources

When no longer needed, you can delete the resource group, virtual machine, and all related resources.

- 1. On the Overview page for the VM, select the Resource group link.
- 2. At the top of the page for the resource group, select **Delete resource group**.
- 3. A page will open warning you that you are about to delete resources. Type the name of the resource group and select **Delete** to finish deleting the resources and the resource group.

Auto-shutdown

If the VM is still needed, Azure provides an Auto-shutdown feature for virtual machines to help manage costs and ensure you are not billed for unused resources.

- 1. On the Operations section for the VM, select the Auto-shutdown option.
- A page will open where you can configure the auto-shutdown time. Select the On option to enable and then set a time that works for you.
- 3. Once you have set the time, select Save at the top to enable your Auto-shutdown configuration.

① Note

Remember to configure the time zone correctly to match your requirements, as (UTC) Coordinated Universal Time is the default setting in the Time zone dropdown.

