

# Azure VM: Resize VM, Enable Auto-shutdown, Add NIC, Reset Password

[Edition 02]

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## Contents

|          |   |           |
|----------|---|-----------|
| <b>1</b> | <b>Introduction .....</b>                                     | <b>3</b>  |
| <b>2</b> | <b>Documentation Links .....</b>                              | <b>4</b>  |
| <b>3</b> | <b>Resize An Azure Virtual Machine.....</b>                   | <b>5</b>  |
| 3.1      | Prerequisites .....   | 5         |
| 3.2      | Create virtual machine scale set.....                         | 5         |
| <b>4</b> | <b>Enable Auto-Shutdown In Existing VM .....</b>              | <b>11</b> |
| 4.1      | Configuring Auto-Shutdown .....                               | 11        |
| <b>5</b> | <b>Add a Network Interface to an existing VM.....</b>         | <b>15</b> |
| <b>6</b> | <b>Reset password of an Azure VM using Azure Portal .....</b> | <b>19</b> |
| 6.1      | Reset the local administrator account password.....           | 19        |
| 6.2      | Reset the Remote Desktop Services configuration.....          | 21        |
| <b>7</b> | <b>Summary.....</b>   | <b>22</b> |

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## 1 INTRODUCTION

This activity guide cover steps to

- How To Resize VM
- How To Enable Auto-Shutdown in a VM
- How To Attach Network Interface Card to a VM
- How To Reset Password of a VM

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## 2 DOCUMENTATION LINKS

1. Resize Virtual Machines: <https://azure.microsoft.com/en-au/blog/resize-virtual-machines/>
2. Create, change, or delete a network interface: <https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-network-interface#create-a-network-interface>

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### 3 RESIZE AN AZURE VIRTUAL MACHINE

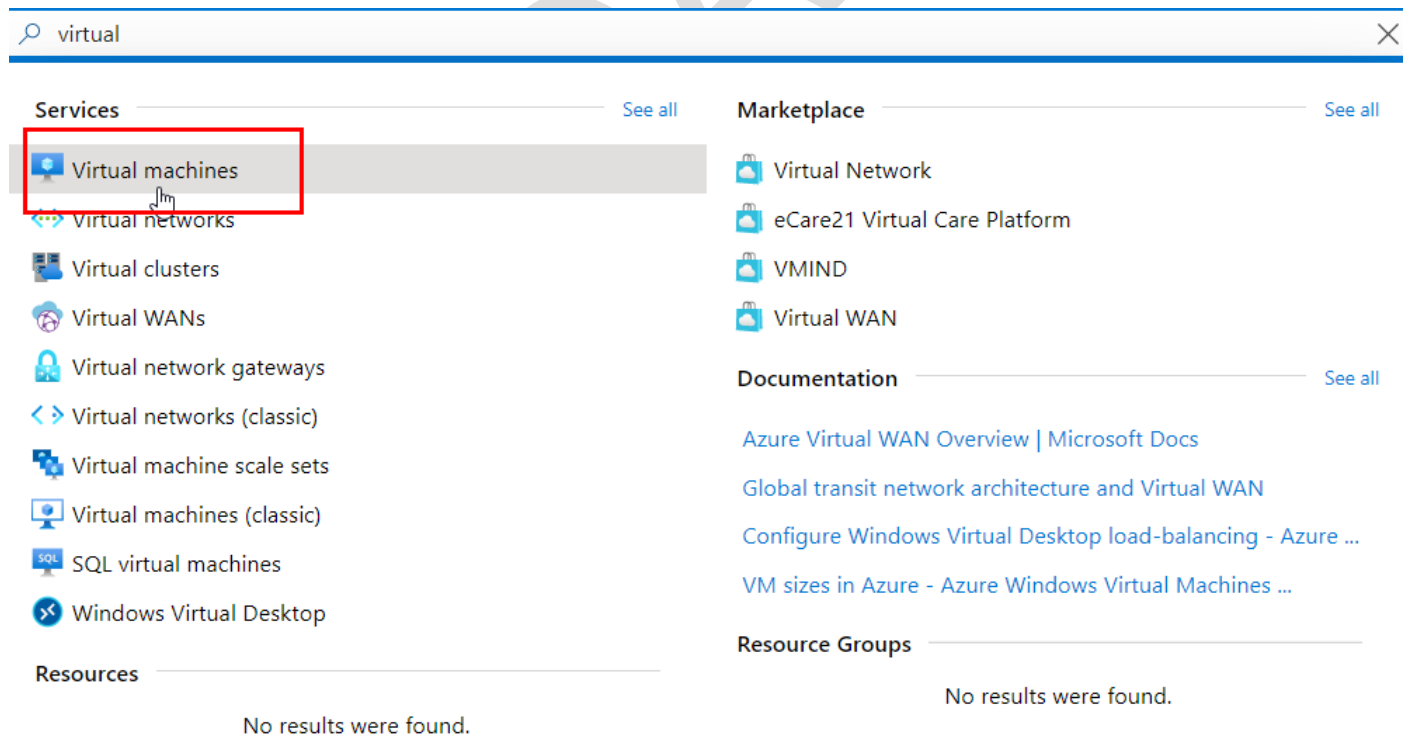
One of the great benefits of Azure VMs is the ability to change the size of your VM based on the needs for CPU, Network or disk performance. In this guide we will outline the process of changing the size of a virtual machine using Azure Portal.

#### 3.1 Prerequisites

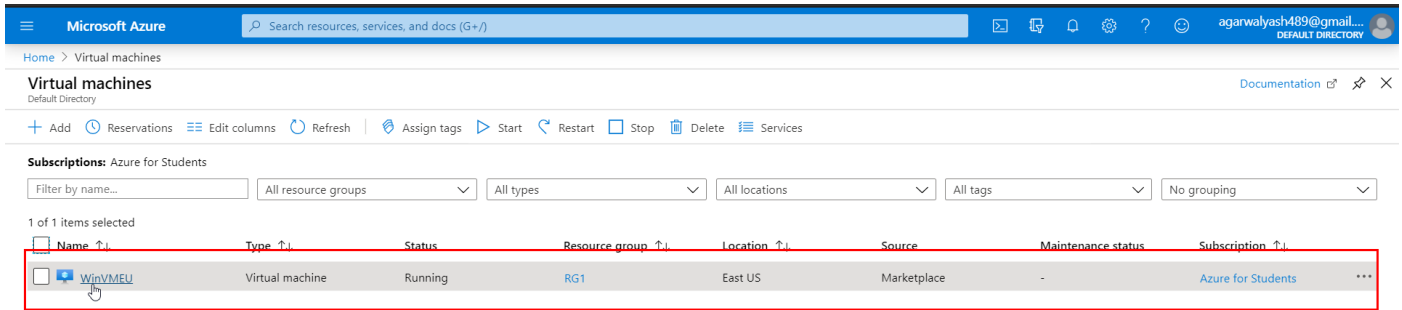
1. You should have an Azure Account active subscription.
2. You must have a Virtual Machine to Resize it.

#### 3.2 Create virtual machine scale set

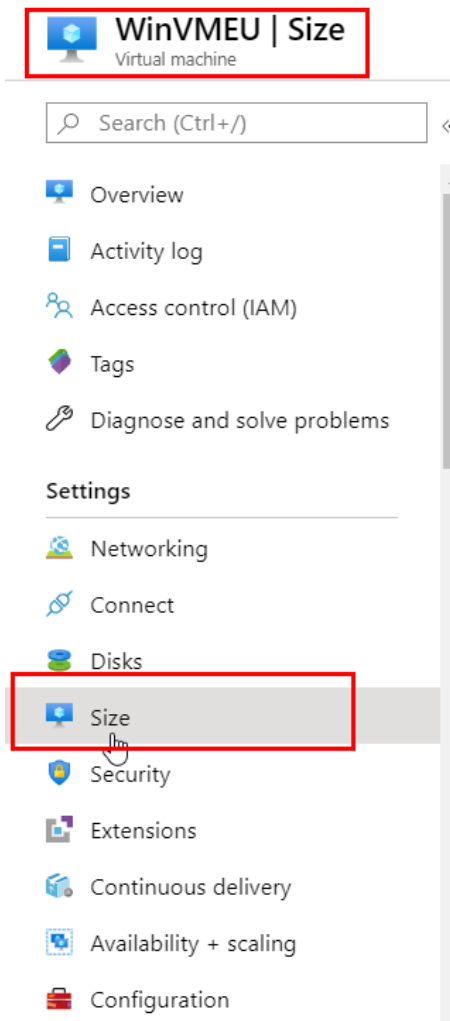
1. Log in to the Azure portal at <https://portal.azure.com>.
2. Search for Virtual Machine and select **Virtual Machine** from the search bar.



3. **Select** your VM in the list which you want to resize.



4. In the resulting sub-menu, select the “**Size**” menu option.



5. Browse the list of available VM sizes and **select** the one that best matches your requirements.  
Click the “**Resize**” button to proceed.

Search by VM size...

Clear all filters

Documentation

Size : **Small (0-6)**

Generation : **Current**

Family : **2 selected**

+ Add filter

Showing 23 of 140 VM sizes.

Subscription: Azure for Students

Region: East US

Current size: Standard\_D2s\_v3

| VM Size | Offering | Family          | vCPUs | RAM (GiB) | Data disks | Max IOPS | Temporary storage |
|---------|----------|-----------------|-------|-----------|------------|----------|-------------------|
| A1_v2   | Standard | General purpose | 1     | 2         | 2          | 2x500    | 10                |
| A2_v2   | Standard | General purpose | 2     | 4         | 4          | 4x500    | 20                |
| A2m_v2  | Standard | General purpose | 2     | 16        | 4          | 4x500    | 20                |
| A4_v2   | Standard | General purpose | 4     | 8         | 8          | 8x500    | 40                |
| A4m_v2  | Standard | General purpose | 4     | 32        | 8          | 8x500    | 40                |
| B1ls    | Standard | General purpose | 1     | 0.5       | 2          | 160      | 4                 |
| B1ms    | Standard | General purpose | 1     | 2         | 2          | 640      | 4                 |
| B1s     | Standard | General purpose | 1     | 1         | 2          | 320      | 4                 |
| B2ms    | Standard | General purpose | 2     | 8         | 4          | 1920     | 16                |

**Resize**

Prices presented are estimates in your local currency that include only Azure infrastructure costs and any discounts for the subscription and location. The prices don't include any applicable software costs. Final charges will appear in your local currency in cost analysis and billing views. [View Azure pricing calculator.](#)

**NOTE:** *If the virtual machine is currently running, changing its size will cause it to be restarted.*

*Stopping the virtual machine may reveal additional sizes.*

Here, Current VM size is D2\_v3 and we are resizing it to D3\_v2.

| VM Size      | Offering | Family          | vCPUs | RAM (GiB) | Data disks | Max IOPS | Temporary storage |
|--------------|----------|-----------------|-------|-----------|------------|----------|-------------------|
| D1_v2        | Standard | General purpose | 1     | 3.5       | 4          | 4x500    | 50                |
| D2_v2        | Standard | General purpose | 2     | 7         | 8          | 8x500    | 100               |
| D2_v3        | Standard | General purpose | 2     | 8         | 4          | 4x500    | 50                |
| D2s_v3       | Standard | General purpose | 2     | 8         | 4          | 3200     | 16                |
| <b>D3_v2</b> | Standard | General purpose | 4     | 14        | 16         | 16x500   | 200               |
| D4_v3        | Standard | General purpose | 4     | 16        | 8          | 8x500    | 100               |
| D4s_v3       | Standard | General purpose | 4     | 16        | 8          | 6400     | 32                |
| DS1_v2       | Standard | General purpose | 1     | 3.5       | 4          | 3200     | 7                 |
| DS2_v2       | Standard | General purpose | 2     | 7         | 8          | 6400     | 14                |
| DS3_v2       | Standard | General purpose | 4     | 14        | 16         | 12800    | 28                |
| NC6          | Standard | GPU             | 6     | 56        | 24         | 20000    | 380               |
| NC6_Promo    | Promo    | GPU             | 6     | 56        | 24         | 20000    | 380               |

**Resize**

Prices presented are estimates in your local currency that include only Azure infrastructure costs and any discounts for the subscription and location. The prices don't include any applicable software costs. Final charges will appear in your local currency in cost analysis and billing views. [View Azure pricing calculator.](#)

But it is giving me an error of:

## Notifications



[More events in the activity log](#) →

Dismiss all ▾

### ! Failed to resize virtual machine



Failed to resize virtual machine 'WinVMEU' to size 'Standard D3 v2'. Error: Requested operation cannot be performed because the VM size Standard\_D3\_v2 does not support the storage account type Premium\_LRS of disk ". Consider updating the VM to a size that supports Premium storage.

4 minutes ago

So, now I have to select the Size which supports Premium Storage.

**NOTE:** Check the Size that it supports your Storage Account Type or not.

Showing 23 of 140 VM sizes. | Subscription: Azure for Students | Region: East US | Current size: Standard\_D2s\_v3

| Family          | ↑↓ | vCPUs ↑↓ | RAM (GiB) ↑↓ | Data disks ↑↓ | Max IOPS | ↑↓ | Temporary stora...↑↓ | Premium disk su...↑↓ | Cost/n |
|-----------------|----|----------|--------------|---------------|----------|----|----------------------|----------------------|--------|
| General purpose |    | 1        | 3.5          | 4             | 4x500    |    | 50                   | No                   | ₹6,079 |
| General purpose |    | 2        | 7            | 8             | 8x500    |    | 100                  | No                   | ₹12,15 |
| General purpose |    | 2        | 8            | 4             | 4x500    |    | 50                   | No                   | ₹9,071 |
| General purpose |    | 2        | 8            | 4             | 3200     |    | 16                   | Yes                  | ₹9,071 |
| General purpose |    | 4        | 14           | 16            | 16x500   |    | 200                  | No                   | ₹24,31 |
| General purpose |    | 4        | 16           | 8             | 8x500    |    | 100                  | No                   | ₹18,14 |
| General purpose |    | 4        | 16           | 8             | 6400     |    | 32                   | Yes                  | ₹18,14 |
| General purpose |    | 1        | 3.5          | 4             | 3200     |    | 7                    | Yes                  | ₹6,079 |
| General purpose |    | 2        | 7            | 8             | 6400     |    | 14                   | Yes                  | ₹12,15 |

So, Now I have change the Size to D4s\_v3 which supports the Premium Storage Account.



Showing 23 of 140 VM sizes. | Subscription: Azure for Students | Region: East US | Current size: Standard\_D2s\_v3

| VM Size ↑↓ | Offering ↑↓ | Family ↑↓       | vCPUs ↑↓ | RAM (GiB) ↑↓ | Data disks ↑↓ | Max IOPS ↑↓ | Temporary stora...↑↓ | Prei |
|------------|-------------|-----------------|----------|--------------|---------------|-------------|----------------------|------|
| D1_v2      | Standard    | General purpose | 1        | 3.5          | 4             | 4x500       | 50                   | ↑    |
| D2_v2      | Standard    | General purpose | 2        | 7            | 8             | 8x500       | 100                  | ↑    |
| D2_v3      | Standard    | General purpose | 2        | 8            | 4             | 4x500       | 50                   | ↑    |
| D2s_v3     | Standard    | General purpose | 2        | 8            | 4             | 3200        | 16                   | ↘    |
| D3_v2      | Standard    | General purpose | 4        | 14           | 16            | 16x500      | 200                  | ↑    |
| D4_v3      | Standard    | General purpose | 4        | 16           | 8             | 8x500       | 100                  | ↑    |
| D4s_v3     | Standard    | General purpose | 4        | 16           | 8             | 6400        | 32                   | ↘    |
| DS1_v2     | Standard    | General purpose | 1        | 3.5          | 4             | 3200        | 7                    | ↘    |
| DS2_v2     | Standard    | General purpose | 2        | 7            | 8             | 6400        | 14                   | ↘    |

**Resize**

Prices presented are estimates in your local currency that include only Azure infrastructure costs and any discounts for the subscription and location. The prices don't include any applicable software costs. Final charges will appear in your local currency in cost analysis and billing views. [View Azure pricing calculator.](#)

### Notifications

[More events in the activity log →](#) [Dismiss all](#) ▾

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■ ■ ■ **Resizing virtual machine** Running ✕

Resizing virtual machine 'WinVMEU' to size 'Standard D4s v3'.

a few seconds ago

### Notifications

[More events in the activity log →](#) [Dismiss all](#) ▾

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✓ **Resized virtual machine** ✕

Successfully resized virtual machine 'WinVMEU' to size 'Standard D4s v3'.

a few seconds ago

6. Now Check your Upgraded VM size in the **Overview** section of VM.

The screenshot displays the Azure portal interface for a virtual machine named 'WinVMEU'. The left-hand navigation pane shows the 'Overview' tab selected. The main content area is divided into two columns. The left column lists various properties of the VM, including 'Resource group (change) RG1', 'Status Running', 'Location East US', 'Subscription (change) Azure for Students', 'Subscription ID dd65544e-e7ab-4381-83d5-358e81fefdf7', 'Computer name WinVMEU', and 'Operating system Windows (Windows Server 2016 Datacenter)'. The 'Size' section is highlighted with a red box and shows 'Standard D4s v3 (4 vcpus, 16 GiB memory)'. Below this, the 'Tags (change)' section is also highlighted with a red box and contains a link 'Click here to add tags'. The right column displays network-related information: 'Azure Spot N/A', 'Public IP address 40.85.163.175', 'Private IP address 10.0.0.4', 'Subscription ID dd65544e-e7ab-4381-83d5-358e81fefdf7', 'Private IP address (IPv6) -', 'Virtual network/subnet RG1-vnet/default', and 'DNS name Configure'. The top of the interface includes a search bar and a toolbar with buttons for 'Connect', 'Start', 'Restart', 'Stop', 'Capture', 'Delete', and 'Refresh'.

7. We have successfully **Resized** the VM.

## 4 ENABLE AUTO-SHUTDOWN IN EXISTING VM

The auto-shutdown feature that Microsoft added to Azure virtual machines comes to us from Azure DevTest Labs; the sandbox service for developers and testers allows a subscription administrator to minimize compute costs by automatically powering down virtual machines at the end of the workday and optionally power them up again in the morning.

You can configure auto-shutdown when creating a new virtual machine or in the settings of an existing machine. In the case of an existing machine, open the virtual machine's settings and open Auto-Shutdown under Operations.

NOTE: **Azure Auto-shutdown** does not support **Azure Free trial account** and **Azure for student** account. It must be **Paid subscription** for the Industry level work not testing purpose.

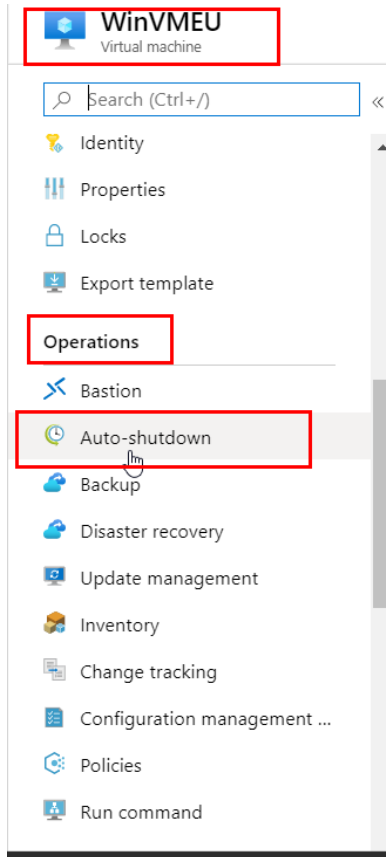
### 4.1 Configuring Auto-Shutdown

1. Follow the 1-2 Steps from the above section.
2. Find your VM from the VM section list and **select** it.

The screenshot shows the Azure portal interface for 'Virtual machines'. At the top, there's a search bar and navigation icons. Below that, the page title is 'Virtual machines' with 'Default Directory' underneath. A toolbar contains various actions: Add, Reservations, Edit columns, Refresh, Assign tags, Start, Restart, Stop, Delete, and Services. Below the toolbar, it says 'Subscriptions: Azure for Students'. There are filter boxes for 'Filter by name...', 'All resource groups', 'All types', 'All locations', and 'All tags'. At the bottom, a table lists the VMs. One VM, 'WinVMEU', is selected and highlighted with a red box. The table has columns for Name, Type, Status, Resource group, Location, Source, and Maintenance.

| Name ↑↓                                     | Type ↑↓         | Status  | Resource group ↑↓ | Location ↑↓ | Source      | Maintenanc |
|---|-----------------|---------|-------------------|-------------|-------------|------------|
| <input checked="" type="checkbox"/> WinVMEU | Virtual machine | Running | RG1               | East US     | Marketplace | -          |

3. Scroll down through the options, and under the **“OPERATIONS”** section, you will see a configuration option named **“Auto-shutdown”**, select it.



4. Here you will find a button to either **enable** or **disable** auto-shutdown for this particular virtual machine. If you click **On** under the **Enable** button, the other configuration controls will be enabled, configure them according to your requirements:

- **Scheduled Shutdown:** Here you will specify what time the shutdown will happen in the HH:MM:SS format.
- **Time Zone:** Specify the time zone you are referring to in Scheduled Shutdown. It's easy to not notice that this is set to UTC by default.
- **Send Notification Before Auto-Shutdown:** Would you like to send a message or trigger an action before the machine shuts down?
- **Webhook URL:** If you want something to happen in sync with the machine being shut down, then you can provide the URL of an Azure Automation (or some other system) webhook.

- **Email Address:** Provide an email address (maybe a distribution list or monitoring system) that will be notified ahead of the shutdown.

Save Discard Feedback

Enabled  
 On  Off

Scheduled shutdown  
12:00:00 AM

Time zone  
(UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi

Send notification before auto-shutdown?  
 Yes  No

Webhook URL ⓘ

Email address ⓘ

If you do configure the email option, you will receive an email **30 minutes** before the shutdown is due to commence. The email will inform you of the name of the machine and it will offer you some options:

- Postpone the shutdown by 1 hour or 2 hours.
- Skip the shutdown.



### Azure DevTest Labs - Auto-shutdown Notification

Virtual machine [REDACTED] is scheduled to shut down in 30 minutes.

[Postpone: 1 hour](#)

[Postpone: 2 hour](#)

[Skip this instance](#)

*Note: If you postpone the shutdown, a new notification will be sent 30 minutes prior to the new shutdown time.*



[Privacy Statement](#)

Microsoft Corporation, One Microsoft Way, Redmond, WA 98052

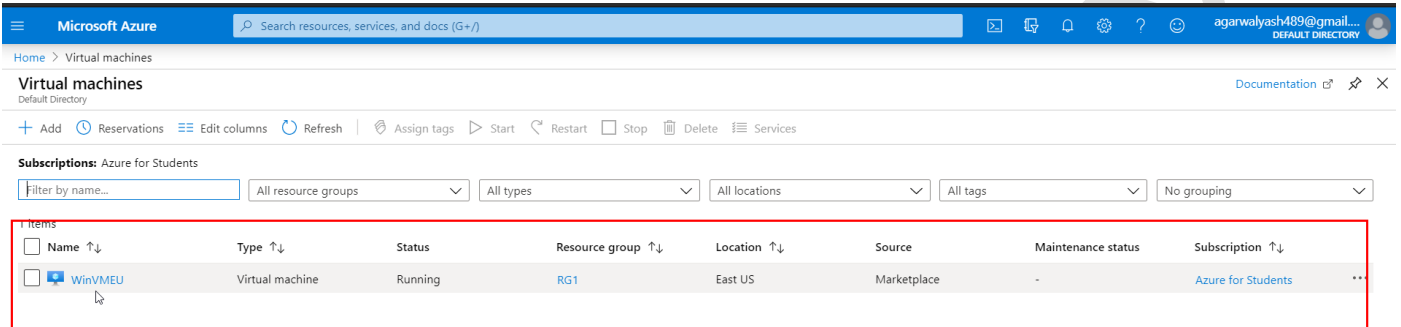


5. You have now successfully enabled the auto-shutdown feature on your VM.

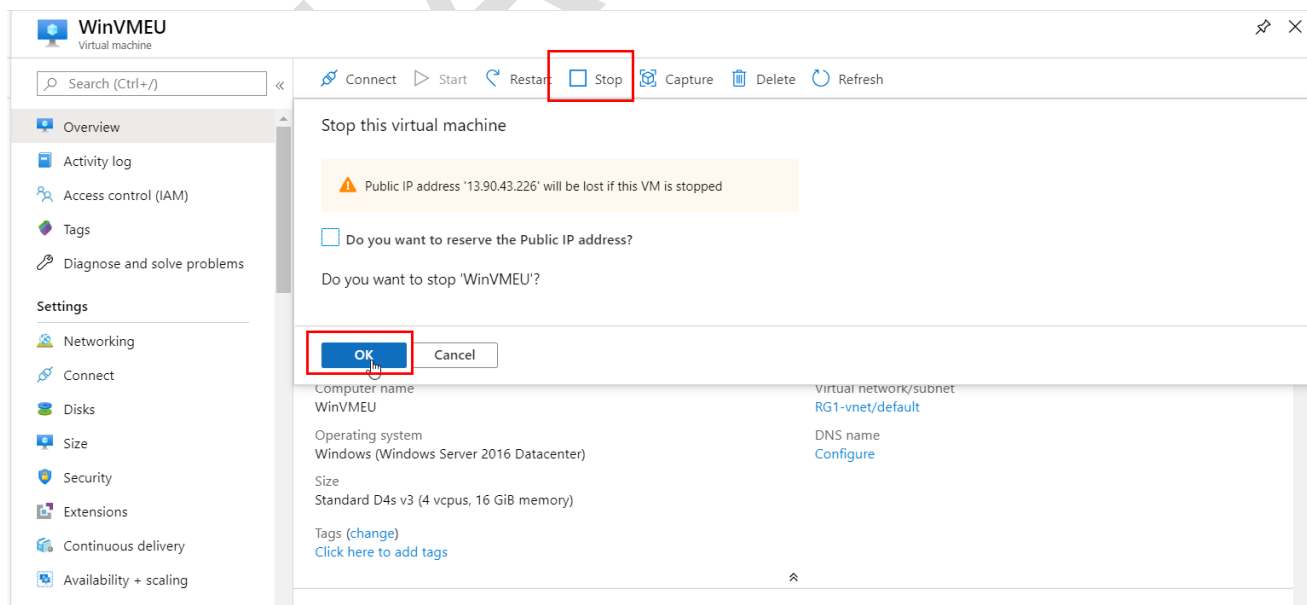
## 5 ADD A NETWORK INTERFACE TO AN EXISTING VM

To add a network interface to your virtual machine:

1. Go to the **Azure portal** to find an existing virtual machine. Search for and select **Virtual machines**.



2. **Select** the name of your VM. The VM must support the number of network interfaces you want to add. To find out how many network interfaces each VM size supports, see the sizes in Azure for [Linux VMs](#) or [Windows VMs](#).
3. In the VM command bar, select **Stop**, and then **OK** in the confirmation dialog box. Then wait until the Status of the VM changes to **Stopped (deallocated)**.



Virtual machines

Default Directory Documentation

+ Add ⌚ Reservations ⚙ Edit columns ↻ Refresh | 🏷 Assign tags ▶ Start ↺ Restart ☐ Stop 🗑 Delete 📄 Services

Subscriptions: Azure for Students

Filter by name... All resource groups All types All locations All tags No grouping

1 of 1 items selected

| Name    | Type            | Status                | Resource group | Location | Source      | Maintenance status | Subscription       |
|---------|-----------------|-----------------------|----------------|----------|-------------|--------------------|--------------------|
| WinVMEU | Virtual machine | Stopped (deallocated) | RG1            | East US  | Marketplace | -                  | Azure for Students |

4. From the VM menu bar, choose **Networking > Attach network interface**.

WinVMEU | Networking

Attach network interface | Detach network interface

Search (Ctrl+/)

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Settings
  - Networking**
  - Connect
  - Disks
  - Size
  - Security
  - Extensions
  - Continuous delivery

IP configuration: ipconfig1 (Primary)

**Network Interface: winvmeu505** Effective security rules Topology

Virtual network/subnet: RG1-vnet/default NIC Public IP: WinVMEU-ip NIC Private IP: 10.0.0.4 Accelerated networking: Disabled

Inbound port rules Outbound port rules Application security groups Load balancing

Network security group WinVMEU-nsg (attached to network interface: winvmeu505) Add inbound port rule

| Priority | Name                           | Port | Protocol | Source            | Destination    |
|----------|--------------------------------|------|----------|-------------------|----------------|
| 300      | RDP                            | 3389 | TCP      | Any               | Any            |
| 320      | HTTP                           | 80   | TCP      | Any               | Any            |
| 340      | HTTPS                          | 443  | TCP      | Any               | Any            |
| 65000    | AllowVnetInBound               | Any  | Any      | VirtualNetwork    | VirtualNetwork |
| 65001    | AllowAzureLoadBalancerInBou... | Any  | Any      | AzureLoadBalancer | Any            |

6. Then in **Attach existing network interface**, choose the network interface you'd like to attach, and select **OK**.

WinVMEU | Networking

Attach network interface | Detach network interface

Search (Ctrl+/)

Attach network interface

Create network interface

NICsecond

**NICsecond**

**OK** Cancel

Impacts 0 subnets, 1 network interfaces



**NOTE:** *The network interface you select can't have accelerated networking enabled, can't have an IPv6 address assigned to it, and must exist in the same virtual network with the network interface currently attached to the VM.*

If you don't have an existing network interface, you must first **create one**. To do so, select **Create network interface**. To learn more about **how to create a network interface**, see our Guide on **How To Create a Network Interface Card**.

Attach network interface

Create network interface

No network interfaces available to attach

OK Cancel

| Priority | Name  | Port | Protocol | Source | Destination |
|----------|-------|------|----------|--------|-------------|
| 300      | RDP   | 3389 | TCP      | Any    | Any         |
| 320      | HTTP  | 80   | TCP      | Any    | Any         |
| 340      | HTTPS | 443  | TCP      | Any    | Any         |

7. From the VM menu bar, choose **Overview** > **Start** to restart the virtual machine.

WinVMEU Virtual machine

Connect Start Restart Stop Capture Delete Refresh

Advisor (1 of 1): Start virtual machine backup to protect your data from corruption and accidental deletion →

Resource group (change) RG1

Status Stopped (deallocated)

Location East US

Subscription (change) Azure for Students

Subscription ID

Azure Spot N/A

Public IP address WinVMEU-ip

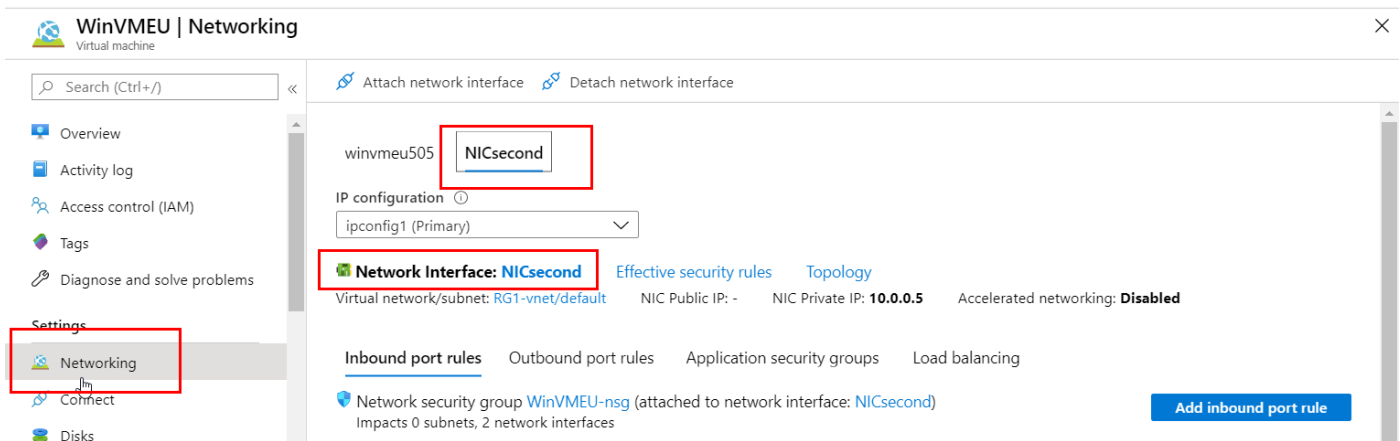
Private IP address 10.0.0.4

Public IP address (IPv6)

Private IP address (IPv6)

8. View network interfaces for a VM, Select the name of the VM for which you want to view attached network interfaces.

9. In the VM menu bar, select **Networking**. Select your newly attached NIC.



10. You have now successfully attached a NIC in your VM.

## 6 RESET PASSWORD OF AN AZURE VM USING AZURE PORTAL

If you can't connect to a Windows virtual machine (VM), you can reset your local administrator password or reset the Remote Desktop Services configuration (not supported on Windows domain controllers). To reset the password, use either the Azure portal or the VM Access extension in Azure PowerShell.

### 6.1 Reset the local administrator account password

1. Select your **Windows VM** and then select **Reset password** under **Support + Troubleshooting**.

The screenshot displays the Microsoft Azure portal interface. The breadcrumb navigation shows 'Home > Virtual machines > WinVMEU | Reset password'. On the left, the 'Virtual machines' section is highlighted with a red box, and the 'WinVMEU' VM is selected, also highlighted with a red box. A red arrow points from the VM name to the 'Support + troubleshooting' menu item on the right, which is also highlighted with a red box. Within this menu, the 'Reset password' option is highlighted with a red box. Other menu items include Alerts, Metrics, Diagnostic settings, Advisor recommendations, Logs, Connection monitor, Resource health, Boot diagnostics, Performance diagnostics (Pr...), Redeploy, Maintenance, Serial console, Connection troubleshoot, and New support request.

2. The **Reset password** window is displayed.

Update Discard

This uses the VMAccess extension to reset the built-in administrator account and reset the Remote Desktop service configuration. Once you have logged in to the VM, you should reset the password for that user. [Learn more](#)

Mode ⓘ

Reset password

Reset configuration only

Username \* ⓘ

Password \*

Confirm password \*

3. Select **Reset password**, enter a **username** and a **password**, and then select **Update**.

Update Discard

This uses the VMAccess extension to reset the built-in administrator account and reset the Remote Desktop service configuration. Once you have logged in to the VM, you should reset the password for that user. [Learn more](#)

Mode ⓘ

Reset password

Reset configuration only

Username \* ⓘ

K21 ✓

Password \*

\*\*\*\*\* ✓

Confirm password \*

\*\*\*\*\* ✓

Notifications

More events in the activity log → Dismiss all ✓

✓ Successfully reset password

Successfully reset password for virtual machine 'WinVMEU'.

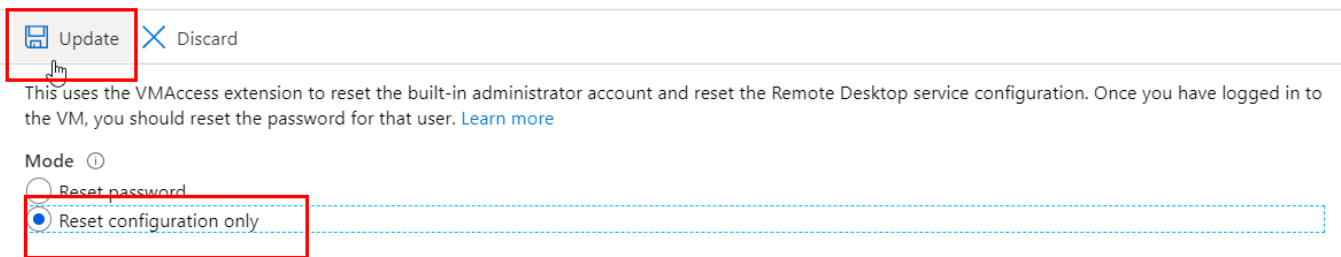
a few seconds ago

4. Try connecting to your VM again.

## 6.2 Reset the Remote Desktop Services configuration

This process will enable Remote Desktop service in the VM, and create a firewall rule for the default RDP port 3389.

1. Repeat **1-2 Steps** from **Section 6.1**.
2. Select **Reset configuration only** and then select **Update**.



Update Discard

This uses the VMAccess extension to reset the built-in administrator account and reset the Remote Desktop service configuration. Once you have logged in to the VM, you should reset the password for that user. [Learn more](#)

Mode ⓘ

Reset password

Reset configuration only

### Notifications

[More events in the activity log](#) →

[Dismiss all](#) ▾

✓ Successfully reset RDP configuration

Successfully reset RDP configuration for virtual machine 'WinVMEU'.

a few seconds ago

Now you have successfully reset the RDP Configuration.

3. Try connecting to your VM again.

---

## 7 SUMMARY

This completes step by step guide covering:

- How To Resize VM
- How To Enable Auto-Shutdown in a VM
- How To Attach Network Interface Card to a VM
- How To Reset Password of a VM

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