

# 😊 Locking Resources

1. Now we are going to learn how to lock our resources.
2. Inside of your VM if you search for lock then you can see an option for it. Click on it.

Home > Resource groups > destination-RG >

WindowsVM

Virtual machine

lock

Overview

Settings

Properties

Locks

Connect

Essentials

Resource group

Status

Location

3. Here if you click on add then you can see that there are two types of locks one is read-only and the other one is delete. But first, we will look at read-only.

WindowsVM | Locks

Virtual machine

lock

Add

Resource group

Subscription

Refresh

Feedback

Overview

Settings

Properties

Locks

Add lock

Lock name \*

Lock name is required.

Notes

Lock type \*

Read-only

Read-only

Delete

OK

Cancel

4. After that you just need to give your lock a name and click on OK.

## Add lock

Lock name \*

Lock type \*

Read-only

Notes

**OK**    **Cancel**

5. Through this we have applied a read-only lock to our resource.
6. Now go back to your VM and try to change the size of the VM.

If the virtual machine is currently running, changing its size will cause it to be restarted. Stopping the virtual machine may reveal additional sizes. →

VM Size ↑↓	Type ↑↓	vCPUs ↑↓	RAM (GiB) ↑↓	Data disks ↑↓	Max IOPS ↑↓	Local storage (GiB) ↑↓
Most used by Azure users ↗	The most used sizes by users in Azure					
D2s_v3 ↗	General purpose	2	8	4	3200	16 (SCSI)
B2s ↗	General purpose	2	4	4	1280	8 (SCSI)
B2ms ↗	General purpose	2	8	4	1920	16 (SCSI)
DS2_v2 ↗	General purpose	2	7	8	6400	14 (SCSI)
> D-Series v5	The 5th generation D family sizes recommended for your general purpose needs					
> D-Series v4	The 4th generation D family sizes for your general purpose needs					
> B-Series	Ideal for workloads that do not need continuous full CPU performance					
> E-Series v5	The 5th generation E family sizes for your high memory needs					

Resize

Prices presented are estimates in INR 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.](#)

Give feedback

7. Immediately from the log field you will get the message that it failed.
8. This is because of the read-only lock you cannot modify any property of your VM.

## ! Failed to resize virtual machine X

Failed to resize virtual machine 'WindowsVM' to size 'Standard D2s v3'.  
Error: The scope '/subscriptions/3541d15a-44aa-4f6e-a120-1b7a6d5925bf/resourceGroups/destination-RG/providers/Microsoft.Compute/virtualMachines/WindowsVM' cannot perform write operation because following scope(s) are locked:  
'/subscriptions/3541d15a-44aa-4f6e-a120-1b7a6d5925bf/resourceGroups/destination-RG/providers/Microsoft.Compute/virtualMachines/WindowsVM'. Please See more ▾

a few seconds ago

9. After that go back to locks and add another lock to delete this time.

The screenshot shows the Azure portal interface with a modal dialog titled "Add lock". The dialog has the following fields:

- Lock name \***: A text input field containing "deletelock".
- Lock type \***: A dropdown menu set to "Delete".
- Notes**: An empty text area.
- OK** and **Cancel** buttons at the bottom.

On the right side of the dialog, there is a sidebar with the word "Scope" and a list item "WindowsVM". Above the dialog, there is a navigation bar with icons for "Add", "Resource group", "Subscription", "Refresh", and "Feedback".

10. Then if you try to delete your resource you cannot do that because of the delete lock.

**!** Failed to update associated resources for virtual machine  'WindowsVM'

An error occurred while updating associated resources for virtual machine 'WindowsVM'. To delete the virtual machine without updating associated resources first, try again without updating any associated resource deletion states. Error: 'The scope '/subscriptions/3541d15a-44aa-4f6e-a120-1b7a6d5925bf/resourceGroups/destination-RG/providers/Microsoft.Compute/virtualMachines/WindowsVM' cannot perform write operation because following scope(s) are locked: '/subscriptions/3541d15a-44aa-4f6e-a120-1b7a6d5925bf/resourceGroups/destination-RG/providers/Microsoft.Compute/virtualMachines/WindowsVM'. Please remove the lock and try again.'

a few seconds ago

## Locks and Moving Resources

1. Now we have locks applied to our VM now we will try to move it back to another resource group.
2. Again, click on Move and then choose your resource group. After that wait for it to get verified.

# Move resources

WindowsVM

1 Source + target    2 Resources to move    3 Review

To move a resource, select a source and a destination. The source and destination resource groups will both be locked during the move. [Learn more](#)

**Source**

Subscription Azure Pass - Sponsorship

Resource group destination-RG

**Target**

Subscription Azure Pass - Sponsorship

Resource group \*

demo-entra-RG

Create new

---

Previous

Next

3. After some time, you can see that your VM is movable to another resource group after having locks applied to it.
  4. Now do not move it and go back to your resource group where you have your resource.

Home > Resource groups > destination-RG > WindowsVM >

## Move resources

WindowsVM

+ Add resources X Remove from the move list

① Source + target    ② Resources to move    ③ Review

Name	Type	Resource type	Validation status	X Remove
WindowsVM	Virtual machine	microsoft.compute/virtualmachines	<span>✓ Succeeded</span>	X Remove

5. Then you are going to apply a lock at the resource group.
  6. Choose the read-only lock for your RG and give it a name then save it.

The screenshot shows the Azure portal interface for a resource group named 'destination-RG'. On the left, there's a navigation sidebar with various options like Overview, Activity log, Access control (IAM), Tags, Resource visualizer, Events, Settings (which is expanded to show Deployments, Security, Deployment stacks, Policies), and a '...' link. The main area is titled 'Locks' and shows a modal window titled 'Add lock'. In the modal, the 'Lock name' field contains 'ResourceGroupLock' and the 'Lock type' dropdown is set to 'Read-only'. Below the modal, there's a note section and two buttons: 'OK' and 'Cancel'. To the right of the modal, there's a vertical pane showing the scope of the lock, which lists 'WindowsVM' and 'WindowsVM'.

7. Now if you go back to your VM and check for the locks then you can see that the resource group is inherited here as well.

The screenshot shows the Azure portal interface for a virtual machine named 'WindowsVM'. The left sidebar has options like Connect, Networking, Settings (with Disks, Extensions + applications, Configuration, Advisor recommendations, Properties), and Locks (which is selected). The main area is titled 'Locks' and shows a table of locks. The table has columns for Lock name, Lock type, Scope, and Notes. It lists three locks: 'deletelock' (Delete, WindowsVM), 'readonly' (Read-only, WindowsVM), and 'ResourceGroupLock' (Read-only, destination-RG). A tooltip message above the table says 'Parent resource locks can't be edited here. Click on the locks scope to go to that scope.'

8. Now let's try to move our resource again and directly it states you an error that it can't be moved because of the lock that we placed on the resource group.

The screenshot shows two side-by-side pages from the Azure portal. On the left, the 'Move resources' wizard is displayed, specifically step 2 'Resources to move'. It lists a single resource, 'WindowsVM', which is a 'Virtual machine' of type 'microsoft.compute/virtualmachines'. On the right, an 'Errors' page is shown, detailing an issue with moving resources due to a scope lock. The error message reads: 'The scope '/subscriptions/3541d15a-44aa-4f6e-a120-1b7a6d925bf/resourceGroups/destination-RG' cannot perform write operation because following scope(s) are locked: '/subscriptions/3541d15a-44aa-4f6e-a120-1b7a6d925bf/resourceGroups/destination-RG'. Please remove the lock and try again. (Code: ScopeLocked) (Code: Scopelocked)'.

9. Now you can try one move thing which is to remove the resource group lock from your current resource group and place it in the resource group which is your destination.
10. You will get the same error there too.