
🛡️ Azure Locks Lab Demonstration: Prevent Accidental Deletion and Modification

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Introduction

Hello and welcome everyone!
In this lab, we will demonstrate how to use **Azure Locks** to protect your resources — specifically, a Virtual Machine (VM) — from accidental deletion or modification.

Lab Steps Overview

1. Sign in to the Azure Portal.
2. Deploy a new Virtual Machine.
3. Create a **Delete Lock** on the VM to prevent accidental deletion.
4. Test the delete lock by attempting to delete the VM.
5. Create a **Read-only Lock** on the VM to prevent modifications.
6. Test the read-only lock by trying to restart the VM.
7. Clean up resources.

Step 1: Sign in to Azure Portal

- Go to portal.azure.com.

- Authenticate with your credentials.
- Once signed in, confirm you are in the correct subscription.

Step 2: Create a Virtual Machine

- Search for **Virtual Machines** in the search bar.
- Click **Create** > **Azure virtual machine**.
- Fill in the details:
    - Subscription: Your current subscription
    - Resource Group: Use existing or create new (e.g., *WizLabsRG*)
    - Virtual machine name: `WizLabsVM`
    - Region: East US
    - Availability options: No redundancy needed
    - Image: Ubuntu 64-bit (e.g., Ubuntu 20.04 LTS)
    - Size: `B2s` (2 vCPUs, 4 GB RAM)
    - Authentication type: Password
    - Username: `wizlabsuser`
    - Password: Complex password (meet Azure requirements)
    - Inbound port rules: Allow SSH (port 22)
    - Disk type: Standard SSD
- Click **Review + create** and then **Create**.
- Wait for deployment to complete.

Step 3: Create a Delete Lock on the VM

- Once deployment finishes, click **Go to resource**.
- On the left menu, under **Settings**, click **Locks**.
- Click **Add** to create a new lock.
- Name the lock: `WizLabsDeleteLock`.
- Lock type: Select **Delete** (prevents deletion).
- Click **OK** to apply the lock.

Step 4: Test the Delete Lock

- Navigate to the VM's **Overview** page.
- Click **Delete**.
- Confirm by selecting **Delete anyway** and **Force delete** checkboxes, then click **Delete**.
- You will receive an error message saying the VM cannot be deleted because it is locked.
- The delete lock is working as expected!

Step 5: Create a Read-only Lock on the VM

- Return to the VM's **Locks** section.
- Click **Add** to create another lock.
- Name the lock: `WizLabsReadOnlyLock`.

- Lock type: Select **Read-only** (prevents modifications).
- Click **OK** to apply the lock.

Step 6: Test the Read-only Lock

- Go to the VM's **Overview**.
- Try to **Restart** the VM.
- You will see an error indicating you cannot perform write operations because the resource is locked.
- The read-only lock is working as expected!

Step 7: Clean Up Resources

- Once testing is complete, delete the locks.
- Delete the VM and resource group if no longer needed, to avoid ongoing costs.

Summary

- **Delete Lock** prevents accidental or unauthorized deletion of resources.
- **Read-only Lock** prevents any modifications, including by administrators.
- Locks can be applied to any Azure resource (VMs, storage accounts, databases, etc.) for extra protection.
