



St. JOSEPH'S
GROUP OF INSTITUTIONS
OMR, CHENNAI - 119

PLACEMENT EMPOWERMENT PROGRAM

Cloud Computing & DevOps Centre

Setting up IAM roles and permissions in cloud: Create an IAM role on your cloud platform. Assign the role to your VM to restrict/allow access.

Name: Ranjitha Prabha P

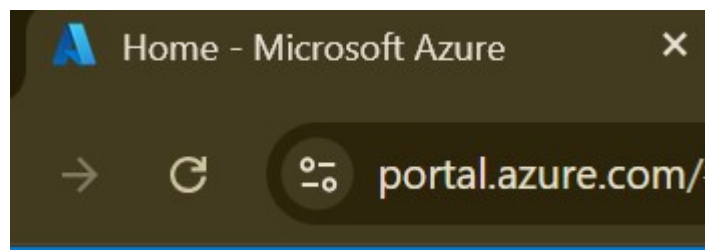
Dept:CSE

Step-by-step process:

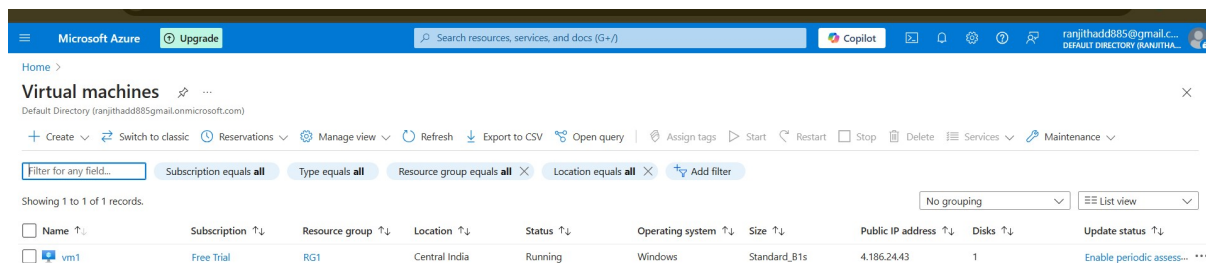
Step 1: Creating a custom role. This is optional if you want to create it you can.

➔ Assign Role to a Virtual Machine Identity

Step 2: Go to the **Azure Portal**.



Step 3: Navigate to **Virtual Machines > Your VM > Identity**.



Microsoft Azure Upgrade Search resources, services, and docs (G+) Copilot ranjithadd885@gmail.com... DEFAULT DIRECTORY (RANJITHA...)

Home > Virtual machines >

Virtual machines

Default Directory (ranjithadd885@gmail.com@microsoft...)

+ Create Switch to classic

Filter for any field...

Name ↑

vm1

vm1 Virtual machine

Search

Advisor (1 of 1): Enable virtual machine replication to protect your applications from regional outage →

Help me copy this VM in any region

Connect Start Restart Stop Hibernate Capture Delete Refresh Open in mobile Feedback

Essentials

Resource group (move) [BS1](#)

Status: Running

Location: Central India (Zone 1)

Subscription (move) [Free Trial](#)

Subscription ID: ac72f373-11bf-4728-9fed-e2e6ce3ae6c

Availability zone: 1

Tags (edit) [Add tags](#)

Operating system: Windows (Windows Server 2022 Datacenter Azure Edition)

Size: Standard B1s (1 vcpu, 1 GiB memory)

Public IP address: [4.186.24.43](#)

Virtual network/subnet: [vm1-vnet/default](#)

DNS name: [Not configured](#)

Health state: -

Time created: 07/02/2025, 08:06 UTC

[JSON View](#)

Security

Identity

Microsoft Defender for Cloud

Step 4: Enable System-assigned managed identity.

vm1 | Identity Virtual machine

Search

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Connect Networking Settings Availability + scale Security Identity Microsoft Defender for Cloud Backup + disaster recovery Operations Monitoring Automation Help

System assigned User assigned

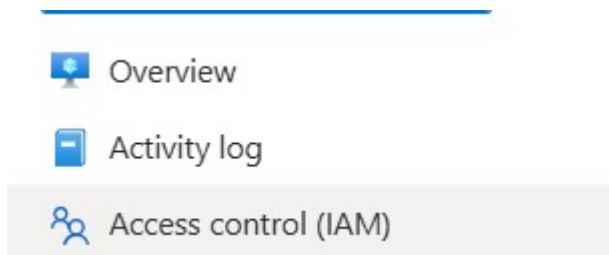
A system assigned managed identity is restricted to one per resource and is tied to the lifecycle of this resource. You can grant permissions to the managed identity by using Azure role-based access control (Azure RBAC). The managed identity is authenticated with Microsoft Entra ID, so you don't have to store any credentials in code.

Save Discard Refresh Got feedback?

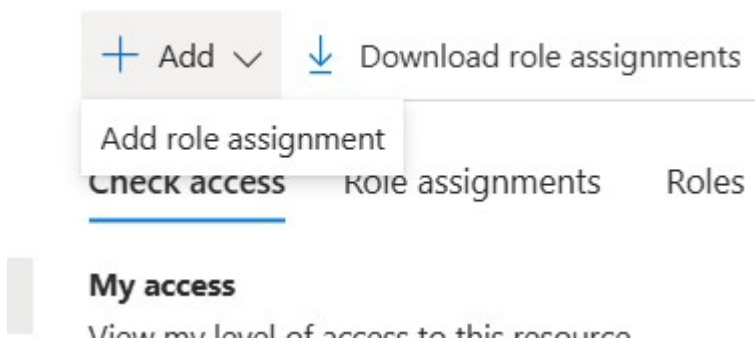
Status Off On

-> Assign Role via the Portal:

Step 5: Go to Access Control (IAM) on the VM you created.



Step 6: Click **Add > Add role assignment**.



Step 7: Choose the role [VM Administrator].

DevTest Labs User	Lets you connect, start, restart, and shutdown your virtual machines in your Azure DevTest Labs.	BuiltInRole	DevOps
Virtual Machine Administrator Login	View Virtual Machines in the portal and login as administrator	BuiltInRole	Compute

Step 8: Select **Members > Managed Identity**, search for your VM, and assign the role.

Microsoft Azure Upgrade Search resources, services, and docs (G+/) Copilot ranjithadd885@gmail.c... DEFAULT DIRECTORY (RANJITHA...)

Home > vm1 | Access control (IAM) >

Add role assignment

Role Members Conditions Review + assign

Assign access to ☒ User, group, or service principal ☐ Managed identity

Members + Select members

Name	Object ID	Type
Ranjitha P(Guest)	5d231738-9948-4f0b-80ab-7e538dabe2...	User

Description Optional

Review + assign Previous Next

Select members

Search by name or email address

Ranjitha P(Guest)
ranjithadd885_gmail.com#EXT#@ranjithadd885gmail.onmicrosoft.com

Selected members:

No members selected. Search for and add one or more members you want to assign to the role for this resource.

[Learn more about RBAC](#)

Select Close

Step 9: Once done go to Role Assignments and check whther role has been assigned or not.

Microsoft Azure Upgrade Search resources, services, and docs (G+/)

Home > vm1 | Access control (IAM) >

Add role assignment

Role Members Conditions Review + assign

Role Virtual Machine Administrator Login

Scope /subscriptions/ac72f373-11bf-4728-9fed-e2e6ce3aea6c/resourceGroups/RG1/providers/Microsoft.Compute/virtualMachines/vm1

Members

Name	Object ID	Type
Ranjitha P(Guest)	5d231738-9948-4f0b-80ab-7e538dabe2a2	User

Description No description