

# Cloud Computing Lab 02

## Vivek Kumar 2280166

The screenshot shows the Microsoft Azure portal interface. On the left, the 'Resource Manager' sidebar is visible with 'Management groups' selected. The main content area displays the 'Management groups' overview, showing a 'Tenant Root Group' containing 'Azure subscription 1'. A 'Create management group' dialog box is open on the right, prompting the user to create a new management group as a child of the 'Tenant Root Group'. The dialog includes fields for 'Management group ID' (az104-mg1) and 'Management group display name' (az104-mg1). At the bottom of the dialog are 'Submit' and 'Cancel' buttons. An 'Activate Windows' watermark is visible in the bottom right corner.

The screenshot shows the Microsoft Azure portal interface. On the left, the 'Resource Manager' sidebar is visible with 'Management groups' selected. The main content area displays the 'Management groups' overview, showing a 'Tenant Root Group' containing 'Azure subscription 1' and 'az104-mg1'. A table lists the management groups and their subscriptions. The table has columns for 'Name', 'Type', 'ID', and 'Total subscriptions'. The 'Tenant Root Group' is a 'Management group' with ID '4e3d9ca0-ceb1-48cc-b5cb-4fe656002d2b' and 1 subscription. 'Azure subscription 1' is a 'Subscription' with ID 'bf2c2cec-41a2-4695-95a8-46225bebd8aa'. 'az104-mg1' is a 'Management group' with ID 'az104-mg1' and 0 subscriptions. A 'Guide me through creating a management group' link is visible at the top right. An 'Activate Windows' watermark is visible in the bottom right corner.

Name	Type	ID	Total subscriptions
Tenant Root Group	Management group	4e3d9ca0-ceb1-48cc-b5cb-4fe656002d2b	1
Azure subscription 1	Subscription	bf2c2cec-41a2-4695-95a8-46225bebd8aa	
az104-mg1	Management group	az104-mg1	0

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

kumaravivek22@gmail.c...  
DEFAULT DIRECTORY (KUMARAV...

Home > Resource Manager | Management groups > az104-mg1 | Access control (IAM) >

Add role assignment ...

ajaxExtended call failed

A role definition is a collection of permissions. You can use the built-in roles or you can create your own custom roles. [Learn more](#)

Copilot can help pick a role

Job function roles

Privileged administrator roles

Grant access to Azure resources based on job function, such as the ability to create virtual machines.

virtual machine contribu

Type: All

Category: All

Name ↑↓	Description ↑↓	Type ↑↓	Category ↑↓	Details
Classic Virtual Machine Contributor	Lets you manage classic virtual machines, but not access to them, and not the virtual network or storage account they're c...	BuiltInRole	Compute	<a href="#">View</a>
Desktop Virtualization Power On Contributor	Provide permission to the Azure Virtual Desktop Resource Provider to start virtual machines.	BuiltInRole	None	<a href="#">View</a>
Desktop Virtualization Power On Off Contributor	Provide permission to the Azure Virtual Desktop Resource Provider to start and stop virtual machines.	BuiltInRole	None	<a href="#">View</a>
Desktop Virtualization Virtual Machine Contribu...	This role is in preview and subject to change. Provide permission to the Azure Virtual Desktop Resource Provider to create, ...	BuiltInRole	None	<a href="#">View</a>
Service Fabric Cluster Contributor	Manage your Service Fabric Cluster resources. Includes clusters, application types, application type versions, applications, a...	BuiltInRole	None	<a href="#">View</a>
Virtual Machine Contributor	Lets you manage virtual machines, but not access to them, and not the virtual network or storage account they're connecte...	BuiltInRole	Compute	<a href="#">View</a>

Showing 1 - 6 of 6 results.

Review + assign

Previous

Next

Activate Windows  
Go to Settings to activate Windows.  
[Feedback](#)

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

kumaravivek22@gmail.c...  
DEFAULT DIRECTORY (KUMARAV...

Home > Resource Manager | Management groups > az104-mg1

az104-mg1 | Access control (IAM)

Management group

Search

+ Add

Download role assignments

Edit columns

Refresh

Delete

Feedback

Overview

Subscriptions

Resource Groups

Resources

Activity Log

Access control (IAM)

Governance

Cost Management

Check access

Role assignments

Roles

Deny assignments

Search by name or email

Type: All

Role: All

Scope: All scopes

Group by: Role

All (3)

Job function roles (2)

Privileged administrator roles (1)

Name ↑↓	Type ↑↓	Role ↑↓	Scope ↑↓	Condition ↑↓
Owner (1)				
<input type="checkbox"/> Vivek Kumar 8b3cd2bc-0bdb-4fcf-8302-c3...	User	Owner	This resource	<a href="#">Add</a>
Virtual Machine Contributor (2)				
<input type="checkbox"/> az104-user1 cc11c81e-986a-4279-8262-d7...	User	Virtual Machine Contributor	This resource	<a href="#">Add</a>
<input type="checkbox"/> Vivek Kumar univivek4@gmail.com	User	Virtual Machine Contributor	This resource	<a href="#">Add</a>

Showing 1 - 3 of 3 results.

Activate Windows  
Go to Settings to activate Windows.

Add or remove favorites by pressing Ctrl+Shift+F

×

[Basics](#) [Permissions](#) [Assignable scopes](#) [JSON](#) [Review + create](#)

To create a custom role for Azure resources, fill out some basic information. [Learn more](#)

Custom role name \* ⓘ Custom Support Request ✓

Description	A custom contributor role for support requests.
-------------	---

Baseline permissions ⓘ ☒ Clone a role ☐ Start from scratch ☐ Start from JSON

Role to clone  

Microsoft Azure

Search resources, services, and docs (G+I)

Copilot

🔔

⚙️

🔍

👤 kumaravivek22@gmail.c...  
DEFAULT DIRECTORY (KUMARAV...

Home > Resource Manager | Management groups > az104-mg1

Create a custom role ...

BasicsPermissionsAssignable scopesJSONReview

+ Add permissions+ Exclude permissions

Click Add permissions to select the permissions you want to add. To add a wildcard (\*) permission, you must manually add the permission. To exclude specific permissions from a wildcard permission, click the minus icon.

Permission	Description
Microsoft.Authorization/*/*	Gets the permissions for the resource.
Microsoft.Resources/subscriptions/resourceGroups/read	Gets the resource groups in the subscription.
Microsoft.Support/*	Gets the support requests.

Review + createPreviousNext

Microsoft.Support permissions

< All resource providers

Exclude permissions enable you to subtract specific permissions from a wildcard (\*) permission. If your custom role has a permission with a wildcard (\*) and you don't want to include all the permissions under the wildcard, search for permissions to subtract from the wildcard. For example, search for "virtual machines" to find permissions related to virtual machines.

.supp

Not ActionsNot Data Actions

Permission

Microsoft.Support

☒ Other : Registers Support Resource Provider ⓘ

☐ Other : Look Up Resource Id ⓘ

☐ Other : Check Name Availability ⓘ

☐ Other : List Classify Services ⓘ

Microsoft.Support/operationresults

☐ Read : Get Operation Result ⓘ

Microsoft.Support/operationsstatus

☐ Read : Get Operation Status ⓘ

Microsoft.Support/operations

☐ Read : List operations available on Microsoft Cloud resource provider ⓘ

Registers Support Resource Provider

Looks up resource Id for resource type

Checks that name is valid and not in use for resource type

Lists one or all classified services

Gets the result of the asynchronous operation

Gets the status of the asynchronous operation

List all operations available on Microsoft Cloud resource provider

AddCancel

Activate Windows

Go to Settings to activate Windows.

Microsoft Azure

Search resources, services, and docs (G+I)

Copilot

🔔

⚙️

🔍

👤 kumaravivek22@gmail.c...  
DEFAULT DIRECTORY (KUMARAV...

Home > Resource Manager | Management groups > az104-mg1

az104-mg1 | Activity Log ...

Search

ActivityEdit columnsRefreshExport Activity LogsDownload as CSVInsightsFeedbackPin current filtersReset filters

Looking for Log Analytics? In Log Analytics you can search for performance, diagnostics, health logs, and more. Visit Log Analytics

SearchQuick Insights

Management Group : az104-mg1Subscription : NoneEvent severity : AllTimespan : Last 6 hoursAdd Filter

4 items.

Operation name	Status	Time	Time stamp	Subscription	Event initiated by
> Create or update custom role definition	Succeeded	2 minutes ago	Tue Jan 06 ...		kumaravivek22@gmail.com
> Create role assignment	Succeeded	10 minutes ago	Tue Jan 06 ...		kumaravivek22@gmail.com
> Create role assignment	Succeeded	10 minutes ago	Tue Jan 06 ...		kumaravivek22@gmail.com
> Create or Update	Succeeded	22 minutes ago	Tue Jan 06 ...		kumaravivek22@gmail.com

Access control (IAM)GovernanceCost Management

Activate Windows

Go to Settings to activate Windows.

Add or remove favorites by pressing Ctrl+Shift+F