

## Manage Subscriptions and RBAC: -

### TASK 1: IMPLEMENT MANAGEMENT GROUPS

The screenshot shows the Microsoft Azure portal home page. The top navigation bar includes the Microsoft Azure logo, a search bar, and the user's email address (chhetryrajen@outlook.c...). Below the navigation bar, there are sections for "Azure services" (Create a resource, Storage accounts, Azure Active Directory, Subscriptions, Quickstart Center, Virtual machines, App Services, SQL databases, Azure Cosmos DB, More services) and "Resources" (Recent, Favorite). The "Recent" section shows a table with columns "Name", "Type", and "Last Viewed". The table lists two items: "FIRSTRG" (Resource group) and "Free Trial" (Subscription). Below the "Resources" section, there is a "Navigate" section with icons for Subscriptions, Resource groups, All resources, and Dashboard.

Name	Type	Last Viewed
FIRSTRG	Resource group	a few seconds ago
Free Trial	Subscription	4 weeks ago

The screenshot shows the Microsoft Azure portal Management groups page. The top navigation bar includes the Microsoft Azure logo, a search bar, and the user's email address (chhetryrajen@outlook.c...). Below the navigation bar, there is a "Home" link and a "Management groups" section. The "Management groups" section has a search bar and a list of tabs: Overview, Get started, and Settings. The "Overview" tab is selected. Below the tabs, there are two informational messages:

- Use management groups to group subscriptions. Click on an existing group to drill in, view details and govern resources. Right-click on any subscription or management group to launch quick actions. Click the "Get Started" tab to learn more.
- You are registered as a directory admin but do not have the necessary permissions to access the root management group. Click here for more info.

Below the messages, there is a large icon representing a management group structure. Below the icon, the text "No management groups to display" is shown. Below this text, there is a paragraph explaining the purpose of management groups and a link to "Learn more". At the bottom, there is a button labeled "Start using management groups".

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

Home > Default Directory

## Default Directory | Properties

Azure Active Directory

Save | Discard | Got feedback?

**Tenant properties**

Name \*  
Default Directory ✓

Country or region  
India

Location  
Asia datacenters

Notification language  
English

Tenant ID  
766dedcf-52bd-445b-b44b-c341be3a8794

Technical contact  
chhetryrajen@outlook.com ✓

Global privacy contact

## Access management for Azure resources

Rajen Chhetry (chhetryrajen@outlook.com) can manage access to all Azure subscriptions and management groups in this tenant. [Learn more](#)

Yes No

## Manage security defaults

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

Home >

## Management groups

Default Directory

Search

+ Create + Add subscription Refresh Expand / Collapse all Export to CSV Feedback

Use management groups to group subscriptions. Click on an existing group to drill in, view details and govern resources. Right-click on any subscription or management group to launch quick actions. Click the "Get Started" tab to learn more.

Search by name or ID

Showing 1 subscriptions in 2 groups

Name	ID	Total subscriptions
Tenant Root Group	766dedcf-52bd-445b-b44b-c341be3a8794	1
Free Trial	d8867466-45b7-4601-b0de-ec3803618ff8	
az104-02-mg1	az104-02-mg1	0

## TASK 2: CREATE CUSTOM RBAC ROLES

Home > Management groups > az104-02-mg1

### az104-02-mg1 | Subscriptions

Management group

Search

+ Add Refresh

Search by name

#### Add subscription

Move an existing subscription to be a child of 'az104-02-mg1'

Subscription \*

Home > Management groups > az104-02-mg1 | Subscriptions >

### Free Trial

Subscription

Search

Cancel subscription Rename Change directory Transfer billing ownership Feedback

#### Essentials

Subscription ID d8867466-45b7-4601-b0de-ec3803618ff8	Subscription name <a href="#">Free Trial</a>
Directory Default Directory (chhettyrajenoutlook.onmicrosoft.com)	Current billing period Loading...
My role Account admin	Currency INR
Offer Free Trial	Status Active
Offer ID MS-AZR-0044P	Secure Score <a href="#">Not available</a>
Parent management group az104-02-mg1	

```
File Edit Selection View Go Run ... az104-02a-customRoleDefinition.json - Visual Studio Code
Restricted Mode is intended for safe code browsing. Trust this window to enable all features. Manage Learn More

az104-02a-customRoleDefinition.json
C:\Users> rajen > Desktop > az104-02a-customRoleDefinition.json > ...

1 {
2   "Name": "Support Request Contributor (Custom)",
3   "IsCustom": true,
4   "Description": "Allows to create support requests",
5   "Actions": [
6     "Microsoft.Resources/subscriptions/resourceGroups/read",
7     "Microsoft.Support/*"
8   ],
9   "NotActions": [
10  ],
11  "AssignableScopes": [
12    "/providers/Microsoft.Management/managementGroups/az104-02-mg1",
13    "/subscriptions/d8867466-45b7-4601-b0de-ec3803618ff8"
14  ]
15 }
```

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

Home > Management groups > az104-02-mg1 | Subscriptions >

Free Trial Subscription

Search Upgrade Cancel subscription Rename Change directory Transfer billing ownership Feedback

```
PowerShell
Requesting a Cloud Shell.Succeeded.
Connecting terminal...

Welcome to Azure Cloud Shell

Type "az" to use Azure CLI
Type "help" to learn about Cloud Shell

MOYT: Azure Cloud Shell now includes Predictive IntelliSense! Learn more: https://aka.ms/CloudShell/IntelliSense

VERBOSE: Authenticating to Azure ...
VERBOSE: Building your Azure drive ...
PS /home/rajen> New-AzRoleDefinition -InputFile $HOME/az104-02a-customRoleDefinition.json

PS /home/rajen> New-AzRoleDefinition -InputFile $HOME/az104-02a-customRoleDefinition.json

Name       : Support Request Contributor (Custom)
Id         : 4c1e6121-3f7d-41f9-9910-4cce42fff2f5
IsCustom   : True
Description : Allows to create support requests
Actions    : {Microsoft.Resources/subscriptions/resourceGroups/read, Microsoft.Support/*}
NotActions : {}
DataActions : {}
NotDataActions : {}
AssignableScopes : {/providers/Microsoft.Management/managementGroups/az104-02-mg1, /subscriptions/d8867466-45b7-4601-b0de-ec3803618ff8}

PS /home/rajen>
```

### TASK 3: ASSIGN RBAC ROLES

Home > Default Directory | Users >

Users

Search New user Download users Bulk operations Refresh Manage view Delete Per-user MFA

Create new user  
Create a new internal user in your organization

Invite external user  
Invite an external user to collaborate with your organization

User principal name	User type	On-premises sy...	Identities	Company
chhetryrajen_outlook.com...	Member	No	MicrosoftAccount	

Manage  
Deleted users (preview)  
Password reset  
User settings

Home >

## Users



Search

+ New user

Download users

Bulk operations

Refresh

Manage view

Delete

Per-user MFA

...

All users (preview)

Audit logs

Sign-in logs

Diagnose and solve problems

### Manage

Deleted users (preview)

Password reset

User settings

Bulk operation results

### Troubleshooting + Support

New support request

Search

Add filter

2 users found

<input type="checkbox"/>	Display name ↑	User principal name	User type	On-premises sy...	Identities	Company
<input type="checkbox"/>	az104-02-aaduser1	az104-02-aaduser1@chh...	Member	No	chhetryrajenoutlook.onmicrosoft.c	
<input type="checkbox"/>	Rajen Chhetry	chhetryrajen_outlook.com...	Member	No	MicrosoftAccount	

Home > Users >

## az104-02-aaduser1

User

Search

Edit properties

Delete

Refresh

Reset password

Revoke sessions

Manage view

Got feedback?

Overview

Audit logs

Sign-in logs

Diagnose and solve problems

### Manage

Assigned roles

Administrative units

Groups

Applications

Licenses

Devices

Azure role assignments

Authentication methods

### Overview

Monitoring

Properties

### Basic info



az104-02-aaduser1

az104-02-aaduser1@chhetryrajenoutlook.onmicrosoft.com  
Member

User principal name

az104-02-aaduser1@chhetryrajenoutlook.onmicrosoft.com

Copied

Object ID

e68cbd8c-0540-49eb-bd0c-19eed752bd7e

Created date time

Apr 14, 2023, 2:11 PM

User type

Member

Identities

chhetryrajenoutlook.onmicrosoft.com

Group membe... 0

Applications 0

Assigned roles 0

Assigned licen... 0

Microsoft Azure

Search resources, services, and docs (G+)

Home > Management groups > az104-02-mg1

Management group

Search

+ Create + Add subscription Refresh Rename group Delete Move Expand / Collapse all Feedback

Overview

Subscriptions

Resource Groups

Resources

Activity Log

Access control (IAM)

Governance

Get started

Security

Policy

Deployments

Cost Management

Cost analysis

Essentials

Name : az104-02-mg1

ID : az104-02-mg1

Access Level : Owner

Path : Tenant Root Group / az104-02-mg1

Parent management group : Tenant Root Group

Child management groups : 0

Total subscriptions : 1

Search by name or ID

Showing 1 subscriptions in 1 groups

Name	ID	Total subscriptions
az104-02-mg1	az104-02-mg1	1

Free Trial

d8867466-45b7-4601-b0de-ec3803618ff8

Microsoft Azure

Search resources, services, and docs (G+)

Home > Management groups > az104-02-mg1

az104-02-mg1 | Access control (IAM)

Management group

Search

+ Add Download role assignments Edit columns Refresh Remove Feedback

Check access

Role assignments

Roles

Deny assignments

Classic administrators

My access

View my level of access to this resource.

View my access

Check access

Review the level of access a user, group, service principal, or managed identity has to this resource. [Learn more](#)

Check access

Grant access to this resource

Grant access to resources by assigning a role. [Learn more](#)

View access to this resource

View the role assignments that grant access to this and other resources. [Learn more](#)

View deny assignments

View the role assignments that have been denied access to specific actions at this scope. [Learn more](#)

https://portal.azure.com/#view/Microsoft\_Azure\_ManagementGroups/ManagmentGroupDrilldownMenuBlade/~:/iam/tenantId/766dedcf-52bd-445b-b44b-c341be3a8794/mqId/az104-02-mg1/mqDisplayName/az104-02-mg1/mqCan...

Home > Management groups > az104-02-mg1

## az104-02-mg1 | Access control (IAM)

Search « + Add Download role assignments Edit columns Refresh Remove Feedback

- Overview
- Subscriptions
- Resource Groups
- Resources
- Activity Log
- Access control (IAM)

- Add role assignment
- Add co-administrator
- Add custom role

View my access

### Check access

Review the level of access a user, group, service principal, or managed identity has to this resource. [Learn more](#)

Home > Management groups > az104-02-mg1 | Access control (IAM)

## Add role assignment

Role Members Conditions (optional) Review + assign

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](#)

Search sup Type: All Category: All

Name	Description	Type	Category	Details
Quota Request Operator	Read and create quota requests, get quota request status, and create support tickets.	BuiltInRole	Management + Gover...	<a href="#">View</a>
Resource Policy Contributor	Users with rights to create/modify resource policy, create support ticket and read resources...	BuiltInRole	Management + Gover...	<a href="#">View</a>
Support Request Contributor	Lets you create and manage Support requests	BuiltInRole	Management + Gover...	<a href="#">View</a>
Support Request Contributor (Cust...	Allows to create support requests	CustomRole	None	<a href="#">View</a>

< Previous Page 1 of 1 Next >

Review + assign Previous Next

Feedback

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

Home > Management groups > az104-02-mg1 | Access control (IAM)

Add role assignment

Role Members Conditions (optional) Review + assign

Selected role

Support Request Contributor (Custom)

Assign access to

☒ User, group, or service principal

☐ Managed identity

Members

+ Select members

Name	Object ID	Type
No members selected		

Description

Optional

Review + assign Previous Next

Select members

Select

Search by name or email address

Rajen Chhetry

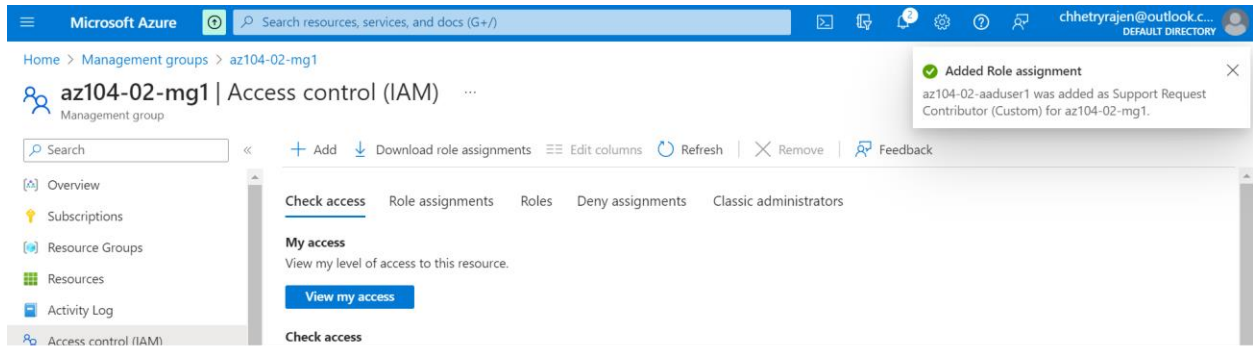
chhetryrajen\_outlook.com#EXT#@chhetryrajenoutl...

Selected members:

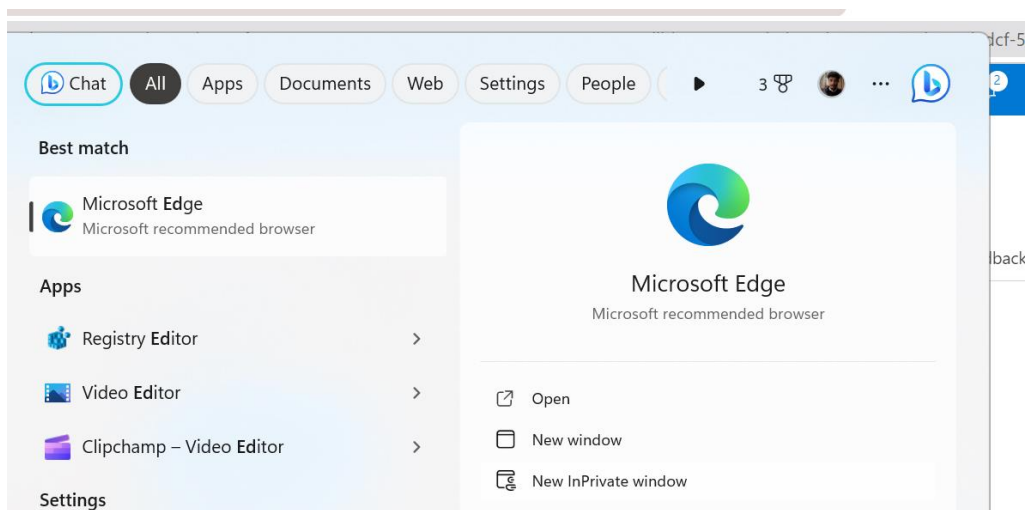
az104-02-aaduser1

az104-02-aaduser1@chhetryrajenoutl... Remove

Select Close



*Task: - Testing browser window and sign in to the [Azure portal]*





## Microsoft Azure



### Sign in

to continue to Microsoft Azure

az104-02-aaduser1@chhetryrajenoutlook.onmicros

No account? [Create one!](#)

[Can't access your account?](#)

Next



Sign in with GitHub



Sign-in options

## Microsoft Azure



← az104-02-aaduser1@chhetryrajenoutlook.onmi...

### Enter password

.....



[Forgot my password](#)

Sign in

Microsoft Azure

Search resources, services, and docs (G+)

### Azure services

Create a resource

Quickstart Center

Virtual machines

App Services

Storage accounts

SQL databases

Azure Cosmos DB

Kubernetes services

Function App

More services

### Resources

RecentFavorite

Name	Type	Last Viewed
<div>No resources have been viewed recently</div> <div>View all resources</div>		

Microsoft Azure

Search resources, services, and docs (G+)

Home >

## Resource groups

Default Directory (chhetryrajenoutlook.onmicrosoft.com)

CreateManage viewRefreshExport to CSVOpen queryAssign tags

Filter for any field...Subscription equals allLocation equals allAdd filter

Showing 1 to 1 of 1 records.

No groupingList view

Name	Subscription	Location
cloud-shell-storage-centralindia	Free Trial	Central India

Microsoft Azure

Search resources, services, and docs (G+)

Home >

## All resources

Default Directory (chhetryrajenoutlook.onmicrosoft.com)

CreateManage viewRefreshExport to CSVOpen queryAssign tagsDelete

Filter for any field...Subscription equals allResource group equals allType equals allLocation equals allAdd filter

0 Unsecure resources

0 Recommendations

No groupingList view

Name	Type	Resource group	Location	Subscription
<div>No resources match your filters</div> <div>Try changing or clearing your filters.</div> <div>Create resourcesClear filters</div>				

Home >

Help + support

...

Search

<<

Overview

Support

- All support requests
- Support Plans
- Service Health

Create a support request

Choose the right support plan

Health Events

No Azure health events detected. [View service health](#)

Have an issue with your resource?

Select Troubleshoot to get targeted solutions for your recently visited resource.

Name	Type	Last viewed
No recently visited resources		

Recent support requests

Title	ID	Created	Subscription	Resource Ty...	Updated	Status
-------	----	---------	--------------	----------------	---------	--------

Home >

Help + support

...

Search

<<

Overview

Support

- All support requests
- Support Plans
- Service Health

Create a support request

Choose the right support plan

Health Events

No Azure health events detected. [View service health](#)

Have an issue with your resource?

Select Troubleshoot to get targeted solutions for your recently visited resource.

Home > Help + support >

New support request

...

Tell us your issue, and we'll help you resolve it.

Provide information about your billing, subscription, quota management, or technical issue (including requests for technical advice).

Summary \*

Service request

✓

Issue type \*

Service and subscription limits (quotas)

▼

Subscription \*

Free Trial (d8867466-45b7-4601-b0de-ec3803618ff8)

▼

Can't find your subscription? [Show more](#) ⓘ

Your free trial subscription isn't eligible for a quota increase. To request a quota increase, first [upgrade to a Pay-As-You-Go](#) subscription. [Learn more](#) ⓘ

❖ Review

- Implemented Management Groups.
- Created custom RBAC roles
- Assigned RBAC roles.