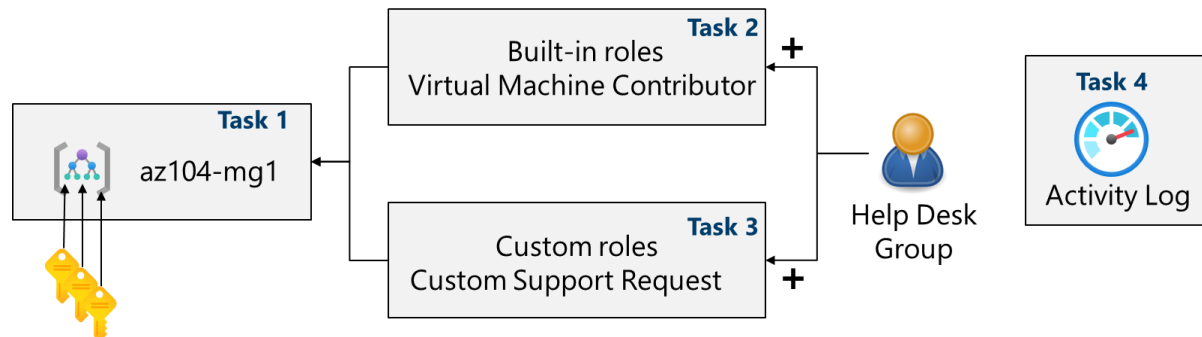


Manage Subscriptions and RBAC

Architecture diagram



Lab Summary

This lab focuses on implementing role-based access control (RBAC) and subscription management in Azure. It includes creating management groups, assigning built-in and custom roles, and monitoring role assignments using the Activity Log.

Task 1: Implement Management Groups

Objective

Create and configure a management group to organize Azure subscriptions and enable centralized RBAC.

Steps Taken

- Signed into Azure Portal
- Verified access permissions via Microsoft Entra ID
- Created management group az104-mg1
- Confirmed visibility of root management group

Screenshot(s)

Figure 1: Management group creation

1.Created a management group

Create management group



Create a new management group to be a child of 'Tenant Root Group'

Management group ID (Cannot be updated after creation) *

az104-mg154326245



Management group display name

az104-mg154326245

Notes

The root management group allows global policy and role assignments across the directory.

Task 2: Review and Assign a Built-in Azure Role

Objective

Assign the Virtual Machine Contributor role to the Help Desk group at the management group level.

Steps Taken

- Navigated to az104-mg1 > Access control (IAM)
- Selected and reviewed built-in roles
- Assigned VM Contributor role to Help Desk group
- Verified role assignment

Screenshot(s)

Role assignment confirmation

1. The root management group is built into the hierarchy to have all management groups and subscriptions fold up to it. This root management group allows for global policies and Azure role assignments to be applied at the directory level.

Home >

Management groups




LODS-Prod-MSLearn-MCA

[+ 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 sub management group to launch quick actions. Click the "Get Started" tab to learn more.

Search by name or ID

Showing 1 subscriptions in 7 groups

↑↓ Name	Type	ID
 Tenant Root Group	...	Management group
 az104-mg154326245	...	Management group
 LOD	...	Management group

bb7ed293-2674-4aef-a74a-dbf340a8ab33

az104-mg154326245

lod

2. Created the ip helpdesk group

Home > Groups | Overview >

New Group

Got feedback?

Group type * ⓘ

Security

Group name * ⓘ

IT Helpdesk

Group description ⓘ

IT Helpdesk

Membership type * ⓘ

Assigned

Owners

No owners selected

Members

No members selected

Notes

Roles should be assigned to groups, not individuals, for better scalability and governance.

3. Adding the role assignment to the group

The screenshot shows the 'Add role assignment' page in the Microsoft Azure portal. The breadcrumb navigation is 'Home > Management groups > az104-mg154326245 | Access control (IAM)'. The page title is 'Add role assignment'. The 'Members' tab is selected, and the 'Virtual Machine Contributor' role is chosen. The 'Assign access to' section has 'User, group, or service principal' selected. The 'Members' section shows a list of members with a '+ Select members' button. The 'Description' field is optional. On the right, the 'Select members' pane is open, showing a search for 'IT Helpdesk' and a list of results. The 'IT Helpdesk' group is selected and added to the 'Selected members' list.

4. Confirmation that IT helpdesk has the virtual machine contributor role

The screenshot shows the 'Virtual Machine Contributor' role assignment page. The 'Members' tab is selected, and the 'IT Helpdesk' group is listed as a member. The 'Role' is 'Virtual Machine Contributor'. The 'Assignment type' is 'This resource'. The 'Description' is 'Eligible time...'. The page shows 'Showing 1 - 15 of 15 results.'

Task 3: Create a Custom RBAC Role

Objective

Design a custom role that allows support ticket creation but excludes provider registration.

Steps Taken

- Cloned Support Request Contributor role
- Excluded Microsoft.Support/register/action permission
- Scoped role to az104-mg1
- Reviewed and created custom role

Screenshot(s)

1. creating a custom RBAC role by cloning the support request contributor role

Create a custom role ...

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 Request54326245
Description	A custom contributor role for support requests.
Baseline permissions ⓘ	<input checked="" type="radio"/> Clone a role <input type="radio"/> Start from scratch <input type="radio"/> Start from JSON
Role to clone	Support Request Contributor ⓘ

2.

Notes

This enforces least privilege by removing unnecessary permissions from the Help Desk role.

🔗 Task 4: Monitor Role Assignments with the Activity Log

Objective

Use the Activity Log to track role assignment events.

Steps Taken

- Opened Activity Log for az104-mg1
- Filtered for role assignment operations
- Reviewed recent changes

Screenshot(s)

1. Activity log filtered view

Home > Management groups > az104-mg154326245

az104-mg154326245 | Activity Log

Management group

» Activity Edit columns Refresh Export Activity Logs Download as CSV Insights Feedback

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Search Quick Insights

Management Group : **az104-mg154326245** Subscription : **None** Event severity : **All** Timespan : **Last 6 hours**

7 items.

Operation name	Status	Time	Time stamp	Subscription
Write Role eligibility schedule req	Succeeded	7 minutes a...	Wed Sep 03...	
Write Role eligibility schedule	Started	7 minutes a...	Wed Sep 03...	
Create or Update	Succeeded	19 minutes ...	Wed Sep 03...	
Create or Update	Started	20 minutes ...	Wed Sep 03...	
Create or Update	Accepted	20 minutes ...	Wed Sep 03...	
Create role assignment	Started	20 minutes ...	Wed Sep 03...	
Create role assignment	Succeeded	20 minutes ...	Wed Sep 03...	

Notes

The Activity Log provides visibility into permission changes and governance actions.

✓ Final Reflection

This lab reinforced the importance of structured access control in Azure. Creating a custom RBAC role helped me apply the principle of least privilege, while management groups simplified subscription-level governance. Monitoring via the Activity Log added an extra layer of accountability. In future implementations, I'd explore automating role assignments using Azure CLI or Bicep templates.