

INTRODUCTION TO CLOUD COMPUTING

Lab Task 02 (A) (Manage Subscriptions and RBAC)

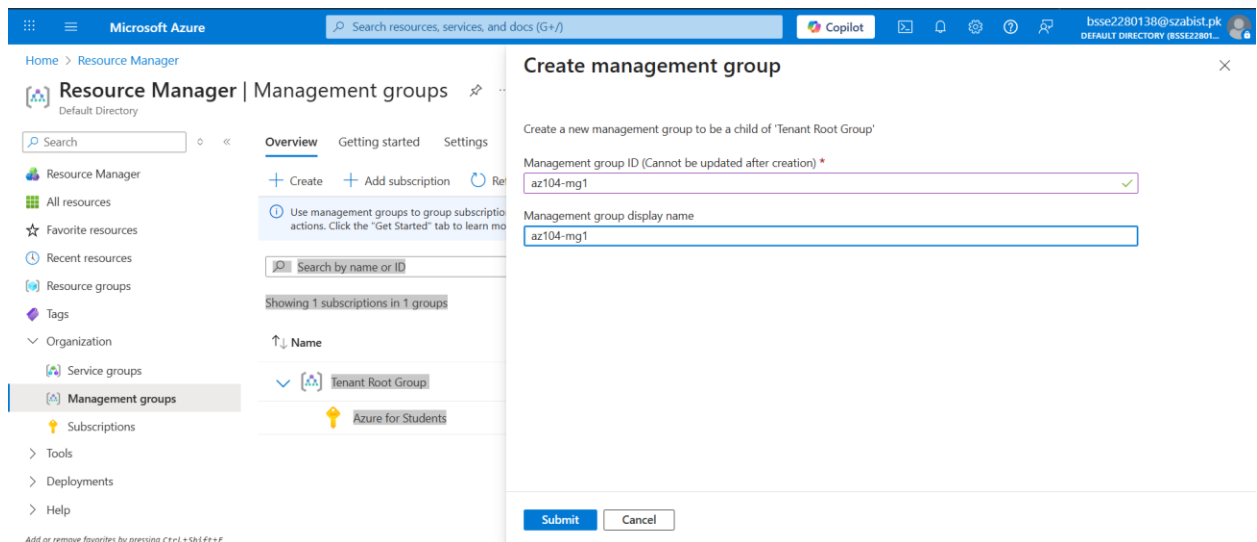
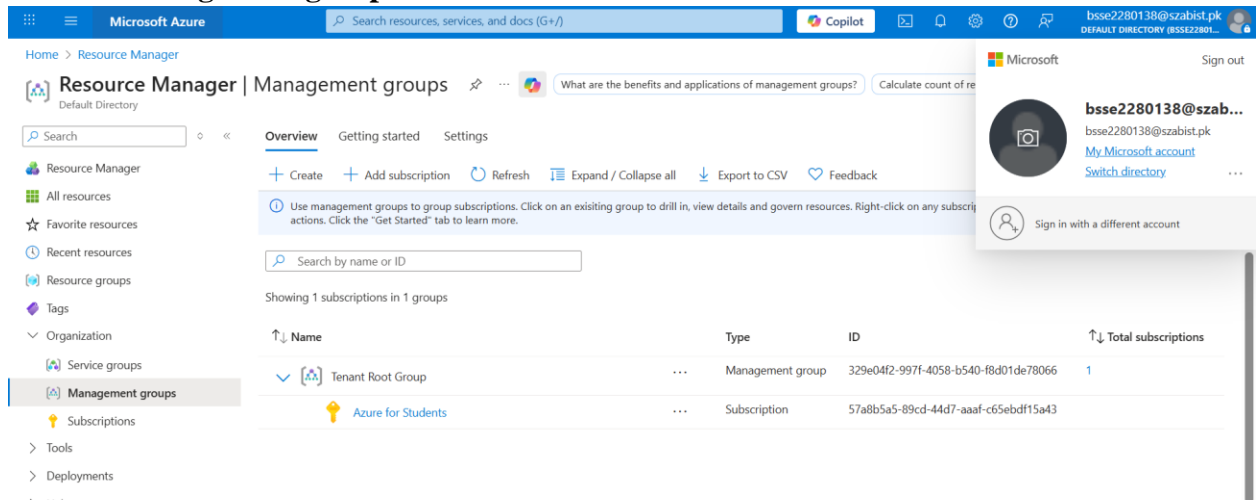
Name: Ariha Zainab

ID: 2280138




Section: SE 7-B

Task 1: Implement Management Groups

- Create a management group:



- Management group created successfully:

↑↓ Name		Type	ID	↑↓ Total subscriptions
✓  Tenant Root Group	...	Management group	329e04f2-997f-4058-b540-f8d01de78066	1
 Azure for Students	...	Subscription	57a8b5a5-89cd-44d7-aaaf-c65ebdf15a43	
 az104-mg1	...	Management group	az104-mg1	0

Lab Task 02 (A) (Manage Subscriptions and RBAC)

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

- Created a Helpdesk group:

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

bss2280138@szabist.pk
DEFAULT DIRECTORY (BSS22801...)

Home > Default Directory | Groups > Groups | Overview >

New Group

Got feedback?

Group type * ⓘ
Security

Group name * ⓘ
Helpdesk

Group description ⓘ
Help Desk support team

Membership type ⓘ
Assigned

Owners
1 owner selected

Members
2 members selected

Create

Assign the VMC role to the helpdesk group:

- Open the **az104-mg1** management group
- Go to **Access control (IAM)** and open the Roles tab

The screenshot shows the Azure portal interface for managing access control. At the top, there's a navigation bar with the Azure logo and search functionality. Below it, the breadcrumb path is 'Home > Resource Manager | Management groups > az104-mg1'. The main header indicates the current view is 'Access control (IAM)'. A sidebar on the left lists various management options like Overview, Subscriptions, Resource Groups, etc. The main content area has a toolbar with actions like 'Add role assignment', 'Download role assignments', and 'Roles' (which is selected). Below the toolbar, there's a descriptive paragraph about role definitions and a link to learn more. A table follows, listing built-in roles with their descriptions, types, categories, and links to details.

Name	Description	Type	Category	Details
<input type="checkbox"/> Owner	Grants full access to manage all resources, including the ability to assign...	BuiltInRole	General	View
<input type="checkbox"/> Contributor	Grants full access to manage all resources, but does not allow you to as...	BuiltInRole	General	View
<input type="checkbox"/> Reader	View all resources, but does not allow you to make any changes.	BuiltInRole	General	View
<input type="checkbox"/> Access Review Operator Se...	Lets you grant Access Review System app permissions to discover and r...	BuiltInRole	None	View
<input type="checkbox"/> AcrDelete	acr delete	BuiltInRole	Containers	View
<input type="checkbox"/> AcrImageSigner	Planned DEPRECATION on March 31, 2028. Grant the signing permisio...	BuiltInRole	Containers	View

- **Add role assignment.** Choose the **Virtual Machine Contributor** role.
- Add the **helpdesk** group as the **member**

INTRODUCTION TO CLOUD COMPUTING

Lab Task 02 (A) (Manage Subscriptions and RBAC)

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

Add role assignment

Role **Members** Conditions Review + assign

Selected role Virtual Machine Contributor

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

Search by name or email address


- Ariha Zainab(Guest) arihazainab@gmail.com
- Ariha Zainab(Guest) bsse2280138_szabist.pk#EXT#@bsse2280138szabist.onmicrosoft.com
- az104-user1 az104-user1@bsse2280138szabist.onmicrosoft.com
- Helpdesk Help Desk support team
- IT Lab Administrators

Selected members:

- Helpdesk Help Desk support team

Select Close

- **Confirm** the assignment under the **Role assignments** section:

 **Added Role assignment**

Helpdesk was added as Virtual Machine Contributor for az104-mg1.

a few seconds ago

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

Home > Resource Manager | Management groups > az104-mg1

az104-mg1 | Access control (IAM)

Search

+ Add Download role assignments Edit columns Refresh Delete Feedback

Check access **Role assignments** Roles Deny assignments

Search by name or email Type: All Role: All Scope: All scopes Group by: Role

All (2) Job function roles (1) Privileged administrator roles (1)

Name	Type	Role	Scope	Condition
Owner (1)				
Ariha Zainab c9f6c17b-03bc-4ae3-94ef...	User	Owner	This resource	Add
Virtual Machine Contributor (1)				
Helpdesk 125de905-c4dc-45c2-be5...	Group	Virtual Machine Contributor	This resource	Add

Showing 1 - 2 of 2 results.

INTRODUCTION TO CLOUD COMPUTING

Lab Task 02 (A) (Manage Subscriptions and RBAC)

Task 3: Create a Custom RBAC Role

- Open the **Access control (IAM)** blade again.
- Select **Add** → **Add custom role**.
- **Clone the Support Request Contributor** role.

Microsoft Azure

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

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

Description

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

Role to clone

[Review + create](#) [Previous](#) [Next](#) [Feedback](#)

- **Remove the permission for registering the support provider.**

Microsoft Azure

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

Create a custom role

Basics Permissions Assignable scopes

Click Add permissions to select the permissions to add to a wildcard (*) permission. If 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.

Permission

Microsoft.Authorization/*/*read

Microsoft.Resources/subscriptions/resourceGroups/read

Microsoft.Support/*

Microsoft.Support

☒ Other : Registers Support Resource Provider ☐ Other : Look Up Resource Id ☐ Other : Check Name Availability ☐ Other : List Classified Services

Microsoft.Support/operationresults

[Add](#) [Cancel](#)

Microsoft Azure

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

Create a custom role

You have successfully created the custom role "Custom Support Request". It may take the system a few minutes to display your role everywhere.

[OK](#)

Role description A custom contributor role for support requests.

Permissions

Action Microsoft.Authorization/*/*read

Action Microsoft.Resources/subscriptions/resourceGroups/read

Action Microsoft.Support/*

NotAction Microsoft.Support/register/action

Assignable Scopes

Scope /providers/Microsoft.Management/managementGroups/az104-mg1

[Create](#) [Previous](#) [Feedback](#)

INTRODUCTION TO CLOUD COMPUTING

Lab Task 02 (A) (Manage Subscriptions and RBAC)

- **Custom role created successfully:**

Microsoft Azure

Home > Resource Manager | Management groups > az104-mg1

az104-mg1 | Access control (IAM)

Search resources, services, and docs (G+)

Copilot

bsse2280138@szabist.pk

DEFAULT DIRECTORY (BSSE22801...)

Overview

Subscriptions

Resource Groups

Resources

Activity Log

Access control (IAM)

Governance

Cost Management

Check access

Role assignments

Roles

Deny assignments

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](#)

All

Job function roles

Privileged administrator roles

custom suppo

Type: All

Category: All

Name	Description	Type	Category	Details
<input checked="" type="checkbox"/> Custom Support Request	A custom contributor role for support requests.	CustomRole	None	View
<input type="checkbox"/> Azure Customer Lockbox Ap...	Can approve Microsoft support requests to access specific resources cont...	BuiltInRole	None	View

Showing 1 - 2 of 2 results.

Add or remove favorites by pressing Ctrl+Shift+F

Task 4: Monitor Role Assignments with The Activity Log

- In the portal locate the **az104-mg1** resource and select **Activity log**.

Microsoft Azure

Home > Resource Manager | Management groups > az104-mg1

az104-mg1 | Activity Log

Search resources, services, and docs (G+)

Copilot

bsse2280138@szabist.pk

DEFAULT DIRECTORY (BSSE22801...)

Overview

Subscriptions

Resource Groups

Resources

Activity Log

Access control (IAM)

Governance

Cost Management

Activity

Edit columns

Refresh

Export Activity Logs

Download as CSV

Insights

Feedback

Pin current filters

Reset filters

Looking for Log Analytics? In Log Analytics you can search for performance, diagnostics, health logs, and more. [Visit Log Analytics](#)

Search

Quick Insights

Management Group: az104-mg1

Subscription: None

Event severity: All

Timespan: Last 6 hours

Add Filter

8 items.

Operation name	Status	Time	Time stamp	Subscription	Event initiated by
<input checked="" type="checkbox"/> Create or update custom role definition	Succeeded	5 minutes a...	Fri Dec 12 2...		bsse2280138@szabist.pk
<input checked="" type="checkbox"/> Create or update custom role definition	Started	5 minutes a...	Fri Dec 12 2...		bsse2280138@szabist.pk
<input checked="" type="checkbox"/> Create role assignment	Succeeded	17 minutes ...	Fri Dec 12 2...		bsse2280138@szabist.pk
<input checked="" type="checkbox"/> Create role assignment	Started	17 minutes ...	Fri Dec 12 2...		bsse2280138@szabist.pk
<input checked="" type="checkbox"/> Create or Update	Succeeded	an hour ago	Fri Dec 12 2...		bsse2280138@szabist.pk
<input checked="" type="checkbox"/> Create or update custom role definition	Succeeded	5 minutes a...	Fri Dec 12 2...		bsse2280138@szabist.pk
<input checked="" type="checkbox"/> Create role assignment	Succeeded	17 minutes ...	Fri Dec 12 2...		bsse2280138@szabist.pk
<input checked="" type="checkbox"/> Create or Update	Succeeded	an hour ago	Fri Dec 12 2...		bsse2280138@szabist.pk

Add or remove favorites by pressing Ctrl+Shift+F