

INTRODUCTION TO CLOUD COMPUTING

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

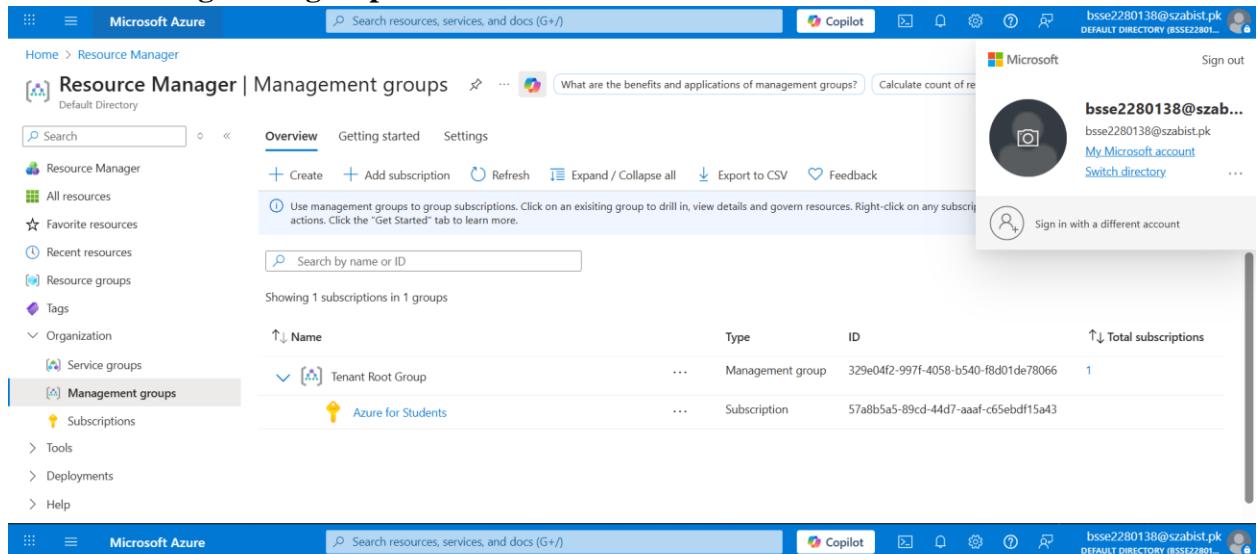
Name: Ariha Zainab

ID: 2280138

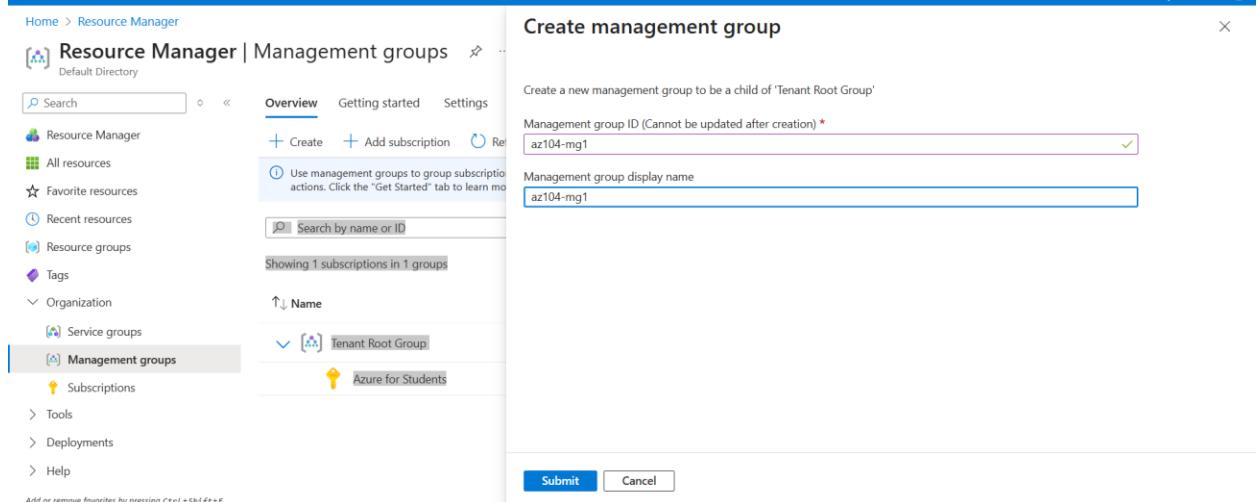
Section: SE 7-B

Task 1: Implement Management Groups

- Create a management group:



The screenshot shows the Microsoft Azure portal's Resource Manager | Management groups page. The left sidebar is collapsed. The main area displays the 'Overview' tab, which includes a search bar, a 'Create' button, and a 'Refresh' button. Below this, a note explains the purpose of management groups. A table lists one subscription: 'Tenant Root Group' (Management group, ID: 329e04f2-997f-4058-b540-f8d01de78066) and 'Azure for Students' (Subscription, ID: 57a8b5a5-89cd-44d7-aaaf-c65ebdf15a43). The right sidebar shows user information and a sign-in link.



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- 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 |

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

- Created a Helpdesk group:

The screenshot shows the Microsoft Azure Groups Overview page. A new group named "Helpdesk" is being created. The group type is set to "Security". The group name is "Helpdesk", and the group description is "Help Desk support team". The membership type is "Assigned". Under "Owners", one owner is selected. Under "Members", two members are selected. At the bottom, there is a "Create" button.

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 Microsoft Azure Management Groups page for the "az104-mg1" group. The "Access control (IAM)" tab is selected. The "Roles" tab is active. A table lists various built-in roles:

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

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

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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 Close

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 IT Lab Administrators

Selected members:

Helpdesk Help Desk support team

- 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

Home > Resource Manager | Management groups > az104-mg1

az104-mg1 | Access control (IAM) ...

Management group

Search resources, services, and docs (G+)

Copilot

bsse2280138@szabist.pk

DEFAULT DIRECTORY (BSSE2280138)

Search resources, services, and docs (G+)

+ Add Download role assignments Edit columns Refresh Delete Feedback

Check access Role assignments Roles Deny assignments

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

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

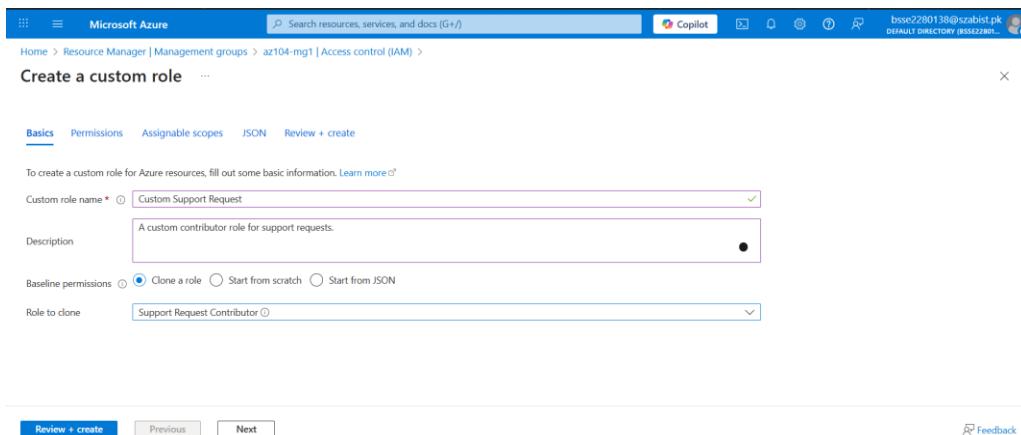
Showing 1 - 2 of 2 results.

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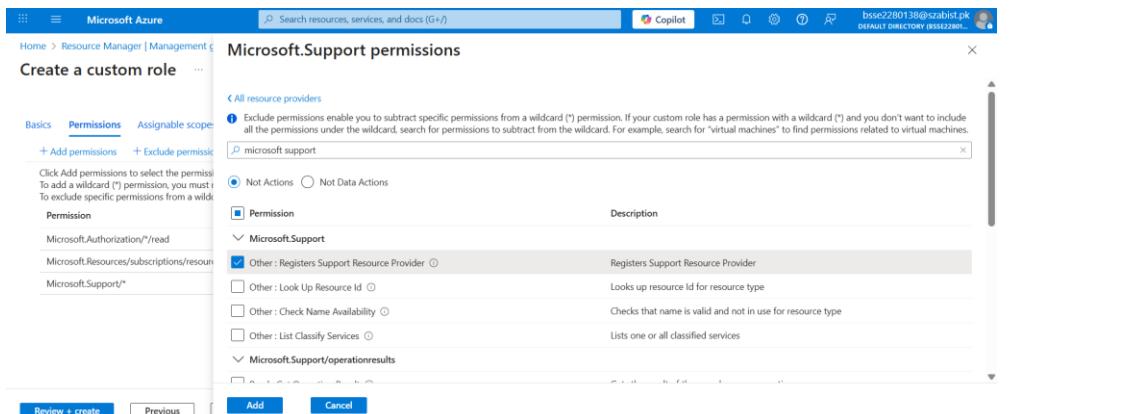
Task 3: Create a Custom RBAC Role

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

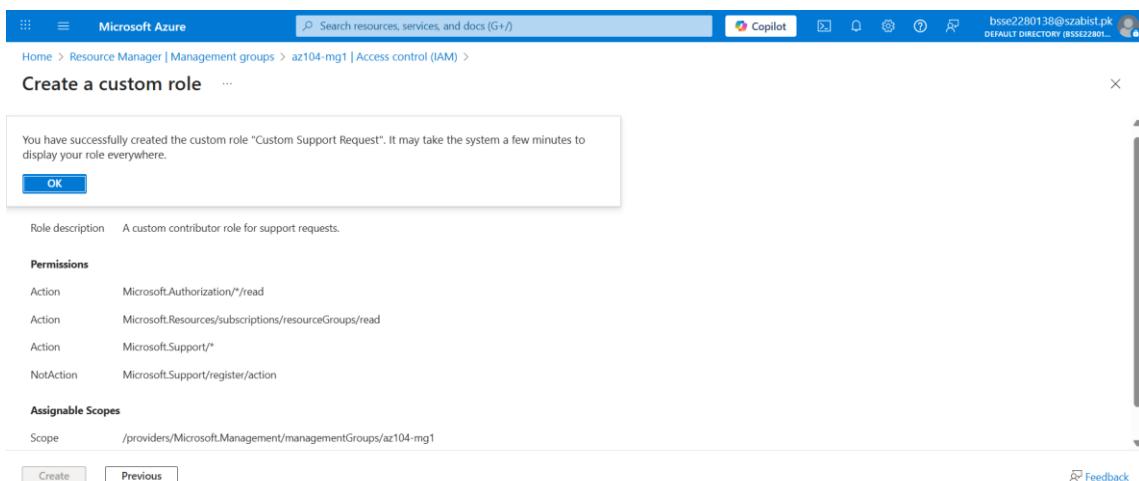


The screenshot shows the 'Create a custom role' blade in the Microsoft Azure portal. The 'Basics' tab is selected. The 'Custom role name' field contains 'Custom Support Request'. The 'Description' field contains 'A custom contributor role for support requests.' Under 'Baseline permissions', the radio button for 'Clone a role' is selected, and the dropdown 'Role to clone' is set to 'Support Request Contributor'. At the bottom, there are 'Review + create', 'Previous', and 'Next' buttons, along with a 'Feedback' link.

- Remove the permission for registering the support provider.



The screenshot shows the 'Microsoft.Support permissions' blade. The 'Permissions' tab is selected. In the 'All resource providers' section, the 'Exclude permissions' section is expanded, showing the 'microsoft.support' permission. The 'Other : Registers Support Resource Provider' checkbox is checked. Other options like 'Not Actions' and 'Not Data Actions' are also present. At the bottom, there are 'Review + create', 'Previous', and 'Next' buttons, along with a 'Feedback' link.



The screenshot shows the 'Create a custom role' blade at the 'Review + create' step. A message box displays: 'You have successfully created the custom role "Custom Support Request". It may take the system a few minutes to display your role everywhere.' An 'OK' button is present. Below this, the 'Permissions' section lists actions: 'Action': 'Microsoft.Authorization/*/read', 'Action': 'Microsoft.Resources/subscriptions/resourceGroups/read', 'Action': 'Microsoft.Support/*', 'NotAction': 'Microsoft.Support/register/action'. The 'Assignable Scopes' section shows the scope: '/providers/Microsoft.Management/managementGroups/az104-mg1'. At the bottom, there are 'Create', 'Previous', and 'Feedback' buttons.

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- Custom role created successfully:

Microsoft Azure

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)

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

Name Description Type Category Details

custom suppo Type : All Category : All

| Name | Description | Type | Category | Details |
|------------------------------|---|-------------|----------|----------|
| Custom Support Request | A custom contributor role for support requests. | CustomRole | None | View ... |
| Azure Customer Lockbox Ap... | Can approve Microsoft support requests to access specific resources cont... | BuiltInRole | None | View ... |

Showing 1 - 2 of 2 results.

Task 4: Monitor Role Assignments with The Activity Log

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

Microsoft Azure

az104-mg1 | Activity Log

Management group

Search

Activity Edit columns Refresh Export Activity Logs Download as CSV Insights Feedback Pin current filters Reset filters

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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 |
|---|-----------|----------------|-----------------|--------------|------------------------|
| Create or update custom role definition | Succeeded | 5 minutes ago | Fri Dec 12 2... | | bsse2280138@szabist.pk |
| Create or update custom role definition | Started | 5 minutes ago | Fri Dec 12 2... | | bsse2280138@szabist.pk |
| Create role assignment | Succeeded | 17 minutes ago | Fri Dec 12 2... | | bsse2280138@szabist.pk |
| Create role assignment | Started | 17 minutes ago | Fri Dec 12 2... | | bsse2280138@szabist.pk |
| Create or Update | Succeeded | an hour ago | Fri Dec 12 2... | | bsse2280138@szabist.pk |
| Create or update custom role definition | Succeeded | 5 minutes ago | Fri Dec 12 2... | | bsse2280138@szabist.pk |
| Create role assignment | Succeeded | 17 minutes ago | Fri Dec 12 2... | | bsse2280138@szabist.pk |
| Create or Update | Succeeded | an hour ago | Fri Dec 12 2... | | bsse2280138@szabist.pk |

Add or remove favorites by pressing Ctrl+Shift+F