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**Department of Software Engineering**

**Bisma Saeed – 2280108**

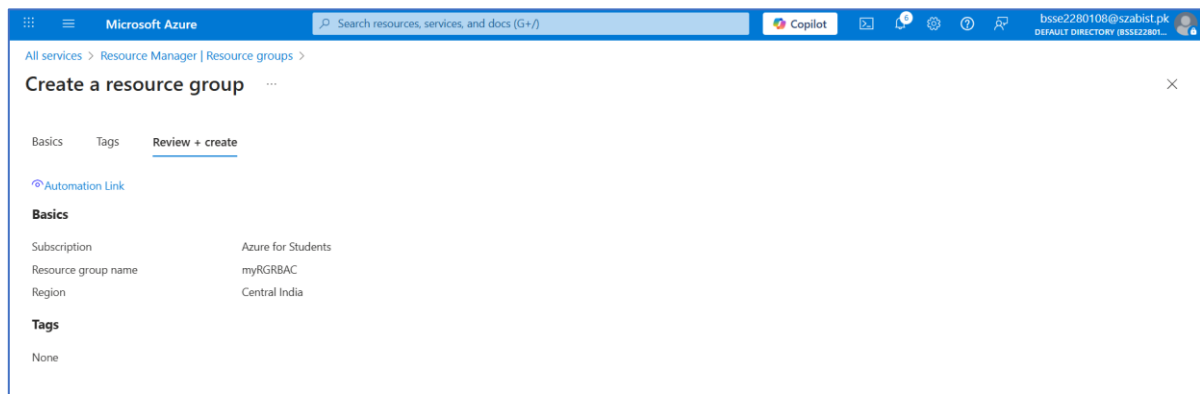
**BSSE – 7A**

**Lab: 07**

## Task 1: View and assign roles

In this task, we will assign the Virtual machine contributor role.

1. Sign in to the Azure portal.
2. From the All services blade, search for and select Resource groups, then click +Add +New +Create.
3. Create a new resource group. Click Create when you are finished.
4. Create Review + create and then click Create.



5. Refresh the resource group page and click the entry representing the newly created resource group.
6. Click on the Access control (IAM) blade, and then switch to the Roles tab. Scroll through the large number of roles definitions that are available. Use the Informational icons to get an idea of each role's permissions. Notice there is also information on the number of users and groups that are assigned to each role.
7. Switch to the Role assignments tab of the myRGRBAC - Access control (IAM) blade, click + Add and then click Add role assignment. Search for the Virtual Machine Contributor role and select. Switch to the "Members" tab and Assign access to: User, group, or service principal. Then click + Select members and type in your name to the popup search function and hit 'select.' Then hit 'Review and Assign'

Note: The Virtual machine contributor role lets you manage virtual machines, but not access their operating system or manage the virtual network and storage account they are connected to.

Microsoft Azure

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

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All services > myRGRBAC | Access control (IAM) >

Add role assignment

RoleMembersConditionsReview + assign

Selected role

Classic Virtual Machine Contributor

Assign access to

User, group, or service principal

Managed identity

Members

+ Select members

Name	Object ID	Type
Bisma Saeed(Guest)	1e9711e2-7a58-4556-9a4f-90c3fc953f35	User

Description

Optional

Review + assign

Previous

Next

Feedback

8. Refresh the Role assignments page and ensure you are now listed as a Virtual machine contributor.

Note: This assignment does not actually grant you any additional privileges, since your account has already the Owner role, which includes all privileges associated with the Contributor role.

✓ Added Role assignment

Bisma Saeed(Guest) was added as Classic Virtual Machine Contributor for myRGRBAC.

a few seconds ago

+ Add

Download role assignments

Edit columns

Refresh

Delete

Feedback

Number of role assignments for this subscription

34000

Privileged

2

View assignments

Search by name or email

Type : All

Role : All

Scope : All scopes

Group by : Role

All (3)

Job function roles (1)

Privileged administrator roles (2)

<input type="checkbox"/>	Name ↑↓	Type ↑↓	Role ↑↓	Scope ↑↓	Condition ↑↓
✓	Owner (2)				
<input type="checkbox"/>	<div>Bisma Saeed</div> <div>1e9711e2-7a58-4556-9a...</div>	User	Owner	<div>Subscription (Inherited)</div>	None
<input type="checkbox"/>	<div>Bisma Saeed</div> <div>1e9711e2-7a58-4556-9a...</div>	User	Owner	<div>Subscription (Inherited)</div>	None
✓	Classic Virtual Machine Contributor (1)				
<input type="checkbox"/>	<div>Bisma Saeed</div> <div>1e9711e2-7a58-4556-9a...</div>	User	Classic Virtual Machine Contribu...	<div>This resource</div>	None

## Task 2: Monitor role assignments and remove a role

In this task, we will view the activity log to verify the role assignment, and then remove the role.

1. On the myRGRBAC resource group blade, click Activity log.
2. Click Add filter, select Operation, and then Create role assignment.

The screenshot shows the Azure Activity Log interface. At the top, there's a search bar and a Copilot button. Below the search bar, there are tabs for Activity, Edit columns, Refresh, Export Activity Logs, Download as CSV, Insights, Feedback, Pin current filters, and Reset filters. A notification banner at the top says "Looking for Log Analytics? In Log Analytics you can search for performance, diagnostics, health logs, and more. Visit Log Analytics". Below the banner, there's a search bar and a "Quick Insights" button. The filters section shows: Management Group : None, Subscription : Azure for Students, Event severity : All, Timespan : Last 6 hours, and Resource group : myRGRBAC. The "Oper..." filter is set to "Create role assignment (Microsoft.Authorization/role...)". Below the filters, it says "1 item." and shows a table with the following data:

Operation name	Status	Time	Time stamp	Subscription	Event initiated by
> <b>Create role assignment</b>	Succeeded	3 minutes a...	Mon Oct 27...	Azure for Students	bsse2280108@szabist.pk

3. Verify the Activity log shows your role assignment.

Note: Can you figure out how to remove your role assignment?

The screenshot shows the Azure Privileged Role Assignments page. At the top, there's a search bar and a Copilot button. Below the search bar, there are tabs for Remove, Download role assignments, Edit columns, and Feedback. A notification banner at the top says "To improve your security posture, remove unnecessary privileged role assignments." Below the banner, there's a "Privileged" section with a description: "Role assignments that grant privileged administrator access, such as the ability to assign roles to other users. Learn more". Below the description, there's a search bar and filters: Type : All, Role : All, Scope : All scopes, and Group by : Role. The table shows the following data:

Name	Type	Scope	Condition	Remove
Owner (2)				
<input type="checkbox"/> Bisma Saeed	User	Subscription (Inherited)	None	<input type="checkbox"/> Remove
<input type="checkbox"/> Bisma Saeed	User	Subscription (Inherited)	None	<input type="checkbox"/> Remove

- I was automatically added as Owner when my subscription (Azure for Student) was created
- I manually assigned assigned Owner again directly.

Microsoft Azure

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Home > Resource Manager | Subscriptions > Azure for Students

### Azure for Students | Access control (IAM)

Subscription

Search

+ Add Download role assignments Edit columns Refresh Delete Feedback

Overview  
Activity log  
Access control (IAM)  
Tags  
Diagnose and solve problems  
Security  
Resource visualizer  
Events  
Resource groups  
Resources  
Cost Management  
Billing  
Settings  
Help

Check access **Role assignments** Roles Deny assignments Classic administrators

Number of role assignments for this subscription 3 4000

Privileged 2

View assignments

Search by name or email

Type: All Role: All Scope: All scopes Group by: Role

All (2) Job function roles (0) Privileged administrator roles (2)

<input type="checkbox"/>	Name ↑↓	Type ↑↓	Role ↑↓	Scope ↑↓	Condition ↑↓
▼ Owner (2)					
<input type="checkbox"/>	Bisma Saeed 1e9711e2-7a58-4556-9a...	User	Owner	This resource	Add
<input type="checkbox"/>	Bisma Saeed 1e9711e2-7a58-4556-9a...	User	Owner	This resource	Add

Showing 1 - 2 of 2 results.

Microsoft Azure

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Home > Resource Manager | Subscriptions > Azure for Students | Access control (IAM)

### Manage privileged role assignments

Remove Download role assignments Edit columns Feedback

**Remove role assignments**

Are you sure you want to remove the selected role assignments?

Yes No

Role assignments that grant privileged administrator access, such as the ability to assign roles to other users. [Learn more](#)

Search by name

Type: All Role: All Scope: All scopes Group by: Role

<input type="checkbox"/>	Name	Type	Scope	Condition	Remove
▼ Owner (2)					
<input type="checkbox"/>	Bisma Saeed	User	This resource	Add	Remove
<input type="checkbox"/>	Bisma Saeed	User	This resource	Add	Remove

Microsoft Azure

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

Copilot

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DEFAULT DIRECTORY (BSSE22801...)

Home > Azure for Students

### Azure for Students | Access control (IAM)

Subscription

Search

+ Add Download role assignments Edit columns Refresh Delete Feedback

Overview  
Activity log  
Access control (IAM)  
Tags  
Diagnose and solve problems  
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Resource groups  
Resources  
Cost Management  
Billing  
Settings  
Help

Check access **Role assignments** Roles Deny assignments Classic administrators

Number of role assignments for this subscription 2 4000

Privileged 1

View assignments

Search by name or email

Type: All Role: All Scope: All scopes Group by: Role

All (1) Job function roles (0) Privileged administrator roles (1)

<input type="checkbox"/>	Name ↑↓	Type ↑↓	Role ↑↓	Scope ↑↓	Condition ↑↓
▼ Owner (1)					
<input type="checkbox"/>	Bisma Saeed 1e9711e2-7a58-4556-9a...	User	Owner	This resource	Add

Showing 1 - 1 of 1 results.

✓ Removing Role assignment

Removing Bisma Saeed as Owner for This resource.

**Congratulations! You created a resource group, assigned an access role to it and viewed activity logs and deleted.**