

Introduction to Cloud Computing

LAB 07

Name: Muhammad Yahya

ID: 2280155

BS-SE 7B

Task 1: View and assign roles

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

The screenshot shows the Microsoft Azure 'Create a resource group' wizard. The top navigation bar includes 'Microsoft Azure', a search bar, and various icons. On the right, a user profile is shown with the email 'bsse2280155@szabist.pk', 'DEFAULT DIRECTORY (BSSE2280155)', and a sign-out link. The main content area is titled 'Create a resource group ...'. Below it, there are three tabs: 'Basics' (which is selected), 'Tags', and 'Review + create'. The 'Basics' tab contains three fields:

- 'Subscription' dropdown set to 'Azure for Students'
- 'Resource group name' input field containing 'myRGRBAC'
- 'Region' dropdown set to '(Asia Pacific) Central India'

At the bottom of the wizard, there are 'Previous' and 'Next' buttons, and a prominent blue 'Review + create' button.

- Click on the **Access control (IAM)** blade, and then switch to the **Roles** tab.

Access control (IAM) Roles Table Data:

Name	Description	Type	Category	Details
Owner	Grants full access to manage all resources, including the ability to assign roles in Azur...	BuiltinRole	General	View
Contributor	Grants full access to manage all resources, but does not allow you to assign roles in A...	BuiltinRole	General	View
Reader	View all resources, but does not allow you to make any changes.	BuiltinRole	General	View
Access Review Operator Service ...	Lets you grant Access Review System app permissions to discover and revoke access ...	BuiltinRole	None	View
AcrDelete	acr delete	BuiltinRole	Containers	View
AcrImageSigner	Planned DEPRECATION on March 31, 2028. Grant the signing permission for content t...	BuiltinRole	Containers	View
AcrPull	acr pull	BuiltinRole	Containers	View
AcrPush	acr push	BuiltinRole	Containers	View
AcrQuarantineReader	acr quarantine data reader	BuiltinRole	Containers	View
AcrQuarantineWriter	acr quarantine data writer	BuiltinRole	Containers	View

- Switch to the **Role assignments** tab, click + Add and then click **Add role assignment**.

Number of role assignments for this subscription: 1

Role assignments Table Data:

Name	Type	Role	Scope	Condition
Yahya Ahmer e99ea1b2-ca56-4bb1-9a8b-1...	User	Owner	Subscription (Inherited)	None

- Search for the **Virtual Machine Contributor** role and select.

The screenshot shows the Microsoft Azure 'Add role assignment' interface. The 'Role' tab is active. A search bar at the top left contains 'Virtual Machine Contribut'. Below it, a table lists six roles under the 'Job function roles' category, with 'Privileged administrator roles' being the current selection. The 'Virtual Machine Contributor' role is selected and highlighted in grey. The table columns include Name, Description, Type, Category, and Details. At the bottom of the table, it says 'Showing 1 - 6 of 6 results.'

- 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.**

The screenshot shows the Microsoft Azure 'Add role assignment' interface with the 'Members' tab active. The 'Selected role' is set to 'Virtual Machine Contributor'. Under 'Assign access to', the radio button for 'User, group, or service principal' is selected. In the 'Members' section, there is a table with one row showing 'Yahya Ahmer(Guest)' with object ID e99ea1b2-ca56-4bb1-9a8b-1be60e709... and type User. The 'Description' field is labeled as optional. At the bottom, there are 'Review + assign', 'Previous', and 'Next' buttons.

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

Number of role assignments for this subscription: 1

Name	Type	Role	Scope	Condition
Yahya Ahmer (Owner)	User	Owner	Subscription (Inherited)	None
Yahya Ahmer (Virtual Machine Contributor)	User	Virtual Machine Contributor	This resource	None

Task 2: Monitor role assignments and remove a role

- On the myRGRBAC resource group blade, click **Activity log**.
- Click **Add filter**, select **Operation**, and then **Create role assignment**.
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The screenshot shows the Microsoft Azure Activity log for the resource group 'myRGRBAC'. The 'Activity log' tab is selected. A search bar at the top right contains the placeholder 'Looking for Log Analytics? In Log Analytics you can search for performance, diagnostics, health logs, and more. Visit Log Analytics'. Below the search bar, there are filter options: Management Group (None), Subscription (Azure for Students), Event severity (All), Timespan (Last 6 hours), Resource group (myRGRBAC), and Resource (All resources). An open filter dialog shows the operation 'Create role assignment (Microsoft.Authorization/role...)' and an 'Add Filter' button. The main table lists one item: 'Operation name' (Create role assignment), 'Status' (Succeeded), 'Time' (3 minutes ago), 'Time stamp' (Wed Nov 0...), 'Subscription' (Azure for Students), and 'Event initiated by' (bsse2280155@szabist.pk). The table has columns for Operation name, Status, Time, Time stamp, Subscription, and Event initiated by.

- Verify the Activity log shows your role assignment.

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

The screenshot shows the Microsoft Azure Access control (IAM) page for the resource group 'myRGRBAC'. The 'Role assignments' tab is selected. It displays the number of role assignments (1) and their status (Privileged). A notifications sidebar on the right shows a message: 'Removed Role assignment(s). Yahya Ahmer was removed as Virtual Machine Contributor for /subscriptions/db878fc-8781-42d0-a61d-55de3d976446/resourcegroups/myRGRBAC.' with a timestamp 'a few seconds ago'. There is also a 'Download deleted role assignments' button.

Successfully removed the **role assignment!**