

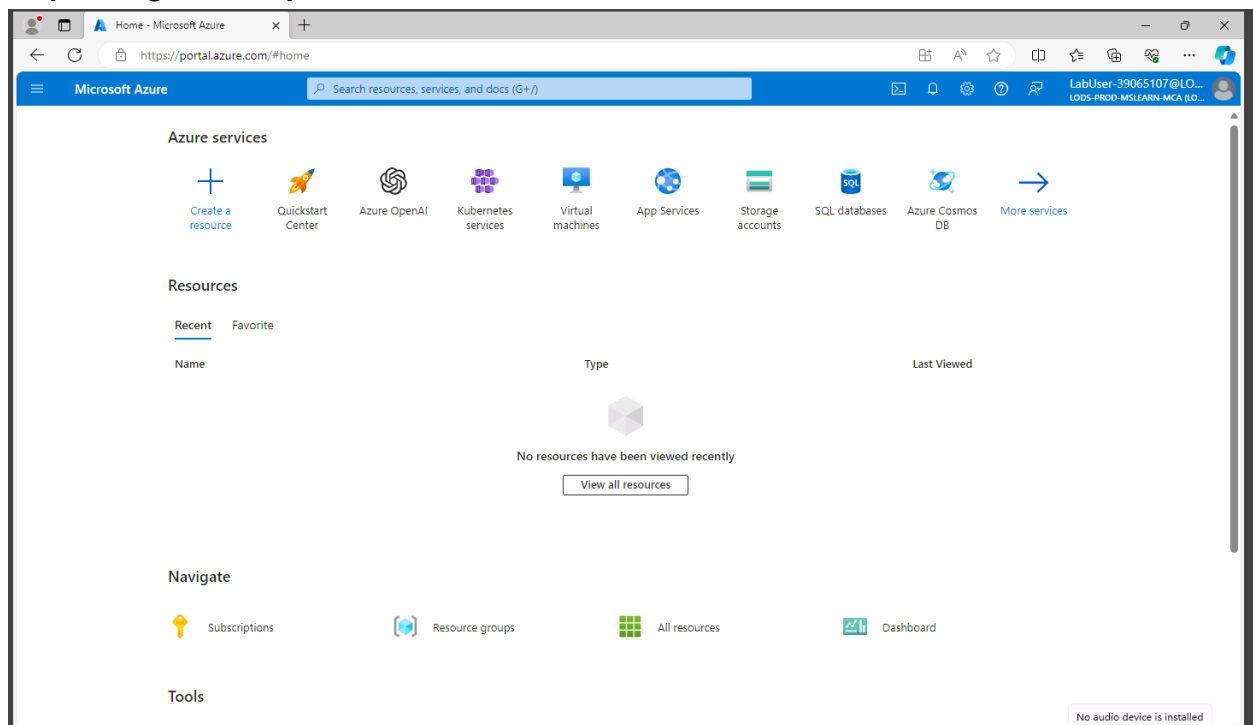
# Lab 1: Role Based Access Control

## Objective

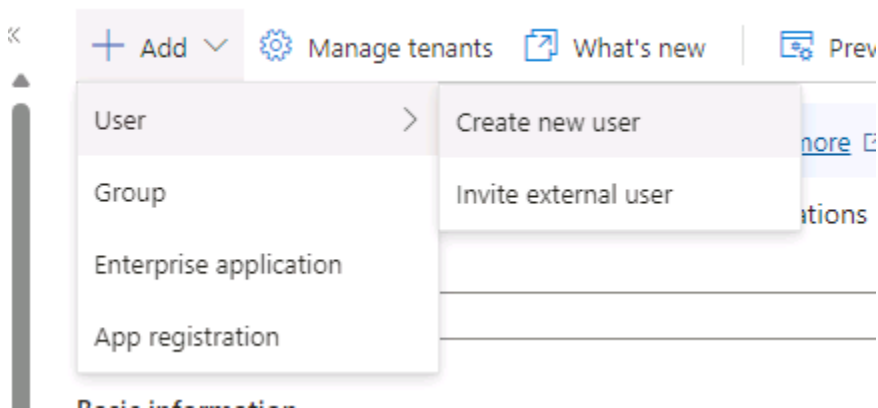
You have been asked to create a proof of concept showing how Azure users and groups are created. Also, how role-based access control is used to assign roles to groups. Specifically, you need to:

- Create a Senior Admins group containing the user account of Joseph Price as its member.

### Step 1: Login to the portal



### Step 2: Go to Microsoft Entra ID and click on add user




### Step 3: Fill the form





## Create new user ...

Create a new internal user in your organization

**Basics** Properties Assignments Review + create

Create a new user in your organization. This user will have a user name like alice@contoso.com. [Learn more](#) 

### Identity

User principal name *	<input type="text" value="Joseph"/> @ <input type="text" value="LODSPRODMSLEARNM..."/> 
	Domain not listed? <a href="#">Learn more</a> 
Mail nickname *	<input type="text" value="Joseph"/> <input checked="" type="checkbox"/> Derive from user principal name
Display name *	<input type="text" value="Joseph Price"/>
Password *	<input type="password" value="....."/>  <input checked="" type="checkbox"/> Auto-generate password
Account enabled 	<input checked="" type="checkbox"/>

### Step 4: Create group

#### Manage



Users




Groups


## Step 5: Fill form and click on create

[Home](#) > [LODS-Prod-MSLearn-MCA | Groups](#) > [Groups | All groups](#) >

# New Group ...

 Got feedback?

Group type \* ⓘ

Security 

Group name \* ⓘ

Senior Admins39065107s 

Group description ⓘ

Enter a description for the group

Membership type \* ⓘ

Assigned 

Owners

No owners selected

Members

No members selected

Create

Step 6: Add owners and similarly add members

Home > LODS-Prod-MSLearn-MCA | Groups

Senior Admins39065107  
Group

Overview

Diagnose and solve problems

Manage

Properties

Members

Owners

Roles and administrators

Administrative units

Group memberships

Applications

Licenses

Azure role assignments

Activity

Privileged Identity Management

Access reviews

Audit logs

Bulk operation results

Add owners

Try changing or adding filters if you don't see what you're looking for.

Search

Joseph-39065107@LODSPRODMSLEARNMCA.onmicrosoft.com

1 result found

All Users Enterprise applications

	Name	Type	Details
<input checked="" type="checkbox"/>	Joseph-39065107	User	Joseph-39065107@LODSPRODMSLEARNMCA.or

Owners (1)

Reset

Joseph-39065107  
Joseph-39065107@LODSPRODMSLEARN...

Senior Admins39065107s | Members

Group

Overview

Diagnose and solve problems

Manage

Properties

Members

Owners

Roles and administrators

Administrative units

+ Add members

✕ Remove

🔄 Refresh

📄 Bulk operations

⌵ Columns

🗨 Got feedback?

Direct members

All members


Search by name

Add filters

	Name	Type	Email	User type
<input type="checkbox"/>	Joseph-39065107	User		Member

- Assign the Virtual Machine Contributor role to the Senior Admins group.

### Step 1: Go to Resource Group

 **Microsoft Azure**

[Home >](#)

## Resource groups

LODS-Prod-MSLearn-MCA (LODSPRODMSLEARNMCA.onmicrosoft.com)

[+ Create](#) [Manage view](#) [Refresh](#) [Export to CSV](#) [Open query](#) [Assign tags](#)

[Subscription equals all](#) [Location equals all](#) [Add filter](#)

Showing 0 to 0 of 0 records.

[Name](#) [↑↓](#)

### Step 2: Fill the form and click on review + create

[Home >](#) [Resource groups >](#)

## Create a resource group

[Basics](#) [Tags](#) [Review + create](#)

Resource group - A container that holds related resources for an Azure solution. The resource group can include all the resources for the solution, or only those resources that you want to manage as a group. You decide how you want to allocate resources to resource groups based on what makes the most sense for your organization. [Learn more](#)

**Project details**

Subscription \* ⓘ

MOC Subscription--lod48910049

Resource group \* ⓘ

AZ500Lab01

**Resource details**

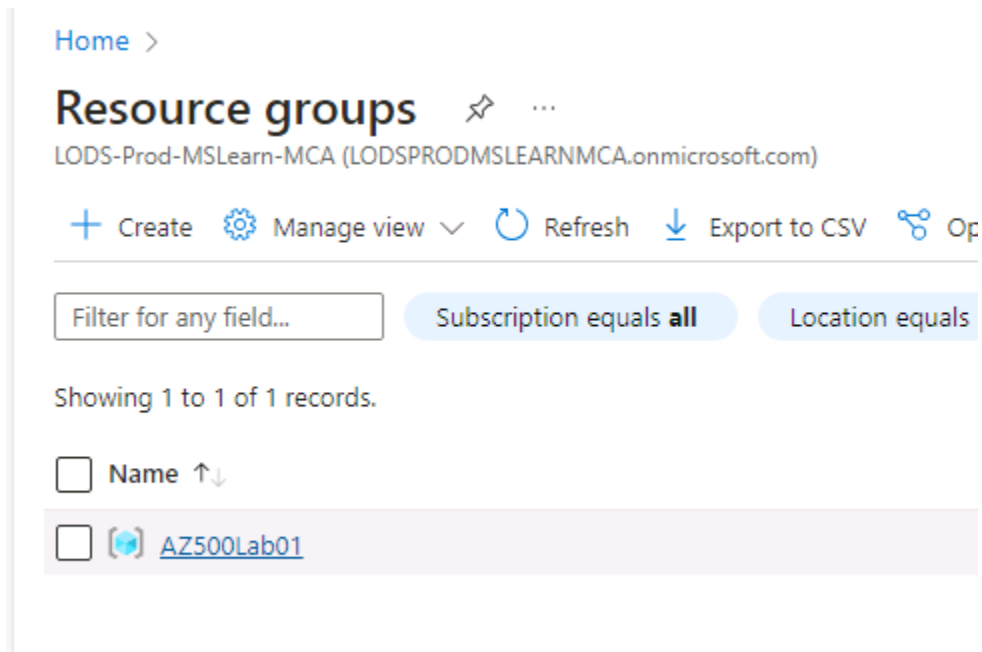
Region \* ⓘ

(US) East US

[Review + create](#) [< Previous](#) [Next : Tags >](#)

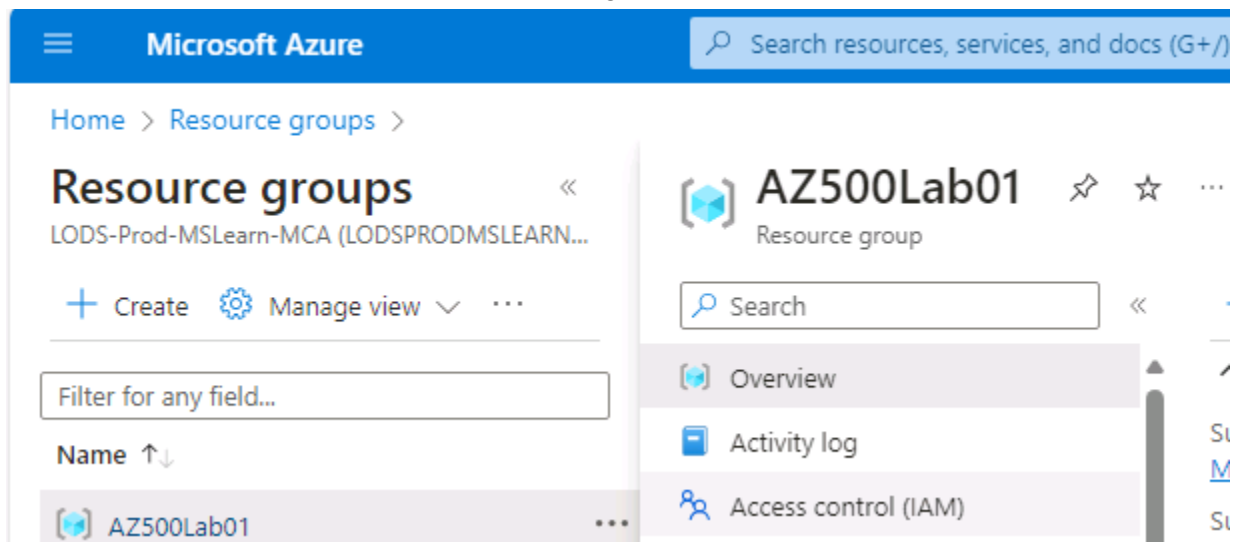
### Step 3: Assignment

Select the resource group



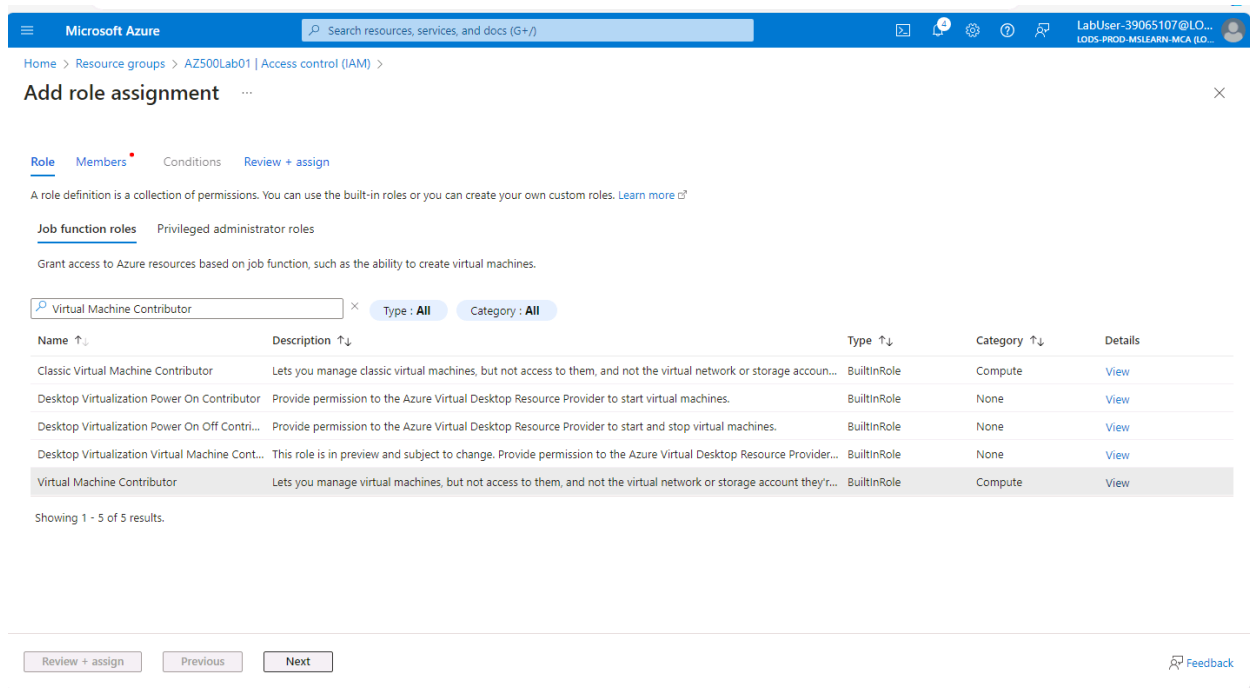
This screenshot shows the 'Resource groups' page in the Azure portal. The breadcrumb navigation at the top reads 'Home >'. The page title is 'Resource groups' with a star icon and a menu icon. Below the title is the subscription name 'LODS-Prod-MSLearn-MCA (LODSPRODMSLEARNMCA.onmicrosoft.com)'. A toolbar contains links for '+ Create', 'Manage view' (with a gear icon and a dropdown arrow), 'Refresh' (with a circular arrow icon), 'Export to CSV' (with a download icon), and 'Open' (with a share icon). Below the toolbar is a search bar labeled 'Filter for any field...'. To the right of the search bar are two filter buttons: 'Subscription equals all' and 'Location equals'. Below these filters, it says 'Showing 1 to 1 of 1 records.' A table with one row is shown, with a checkbox in the first column and the text 'Name ↑↓' in the second column. The table row contains a checkbox and a link to 'AZ500Lab01' with a resource group icon.

Select IAM and click on add then add role assignment



This screenshot shows the 'AZ500Lab01' resource group page in the Azure portal. The breadcrumb navigation at the top reads 'Home > Resource groups >'. The page title is 'Resource groups' with a double back arrow icon. Below the title is the subscription name 'LODS-Prod-MSLearn-MCA (LODSPRODMSLEARN...)'. A toolbar contains links for '+ Create', 'Manage view' (with a gear icon and a dropdown arrow), and a menu icon. Below the toolbar is a search bar labeled 'Filter for any field...'. To the right of the search bar is a table with one row, with a checkbox in the first column and the text 'Name ↑↓' in the second column. The table row contains a checkbox and a link to 'AZ500Lab01' with a resource group icon. On the right side of the page, the 'AZ500Lab01' resource group is displayed with a search bar and a list of tabs: 'Overview', 'Activity log', and 'Access control (IAM)'. The 'Access control (IAM)' tab is selected and highlighted. To the right of the tabs, there are partial views of the 'St' and 'M' sections.

## Select the role and click on Next



Microsoft Azure

Home > Resource groups > AZ500Lab01 | Access control (IAM) >

### Add role assignment

Role Members Conditions Review + assign

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](#)

**Job function roles** Privileged administrator roles

Grant access to Azure resources based on job function, such as the ability to create virtual machines.

Virtual Machine Contributor

Type: All Category: All

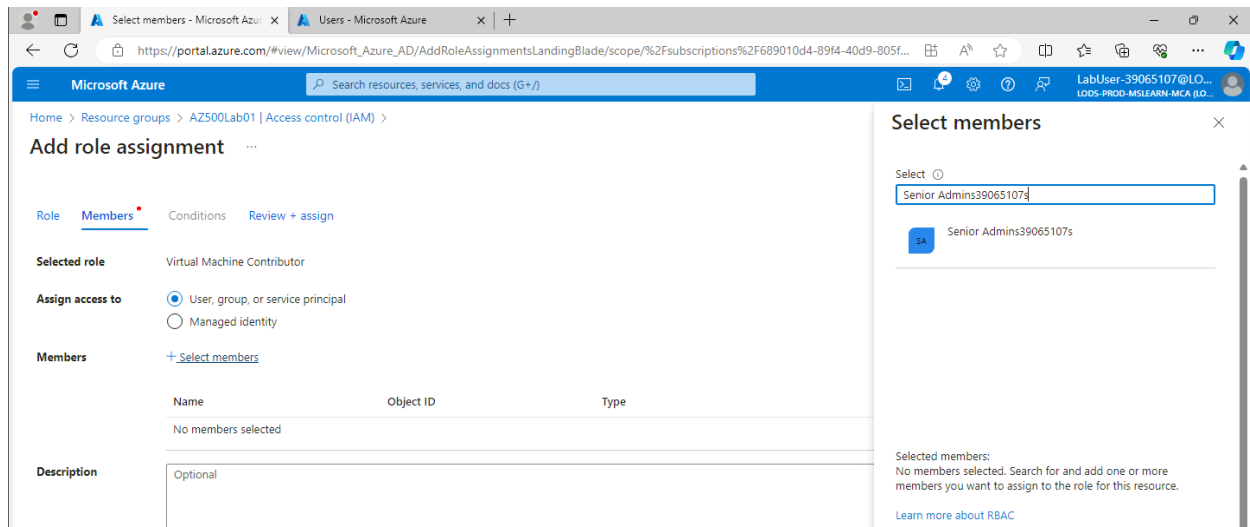
Name	Description	Type	Category	Details
Classic Virtual Machine Contributor	Lets you manage classic virtual machines, but not access to them, and not the virtual network or storage account...	BuiltInRole	Compute	<a href="#">View</a>
Desktop Virtualization Power On Contributor	Provide permission to the Azure Virtual Desktop Resource Provider to start virtual machines.	BuiltInRole	None	<a href="#">View</a>
Desktop Virtualization Power On Off Contributor	Provide permission to the Azure Virtual Desktop Resource Provider to start and stop virtual machines.	BuiltInRole	None	<a href="#">View</a>
Desktop Virtualization Virtual Machine Contributor	This role is in preview and subject to change. Provide permission to the Azure Virtual Desktop Resource Provider...	BuiltInRole	None	<a href="#">View</a>
Virtual Machine Contributor	Lets you manage virtual machines, but not access to them, and not the virtual network or storage account they'r...	BuiltInRole	Compute	<a href="#">View</a>

Showing 1 - 5 of 5 results.

Review + assign Previous Next

Feedback

## Click on add members and select the role and click on review + assign



Microsoft Azure

Home > Resource groups > AZ500Lab01 | 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

**Select members**

Select

Senior Admins390651073

Senior Admins390651073

Selected members:  
No members selected. Search for and add one or more members you want to assign to the role for this resource.  
[Learn more about RBAC](#)

**Conclusion: Members of the senior admin group have Virtual Machine Contributor roles.**