

# Exercise - Grant access using Azure RBAC and the Azure portal

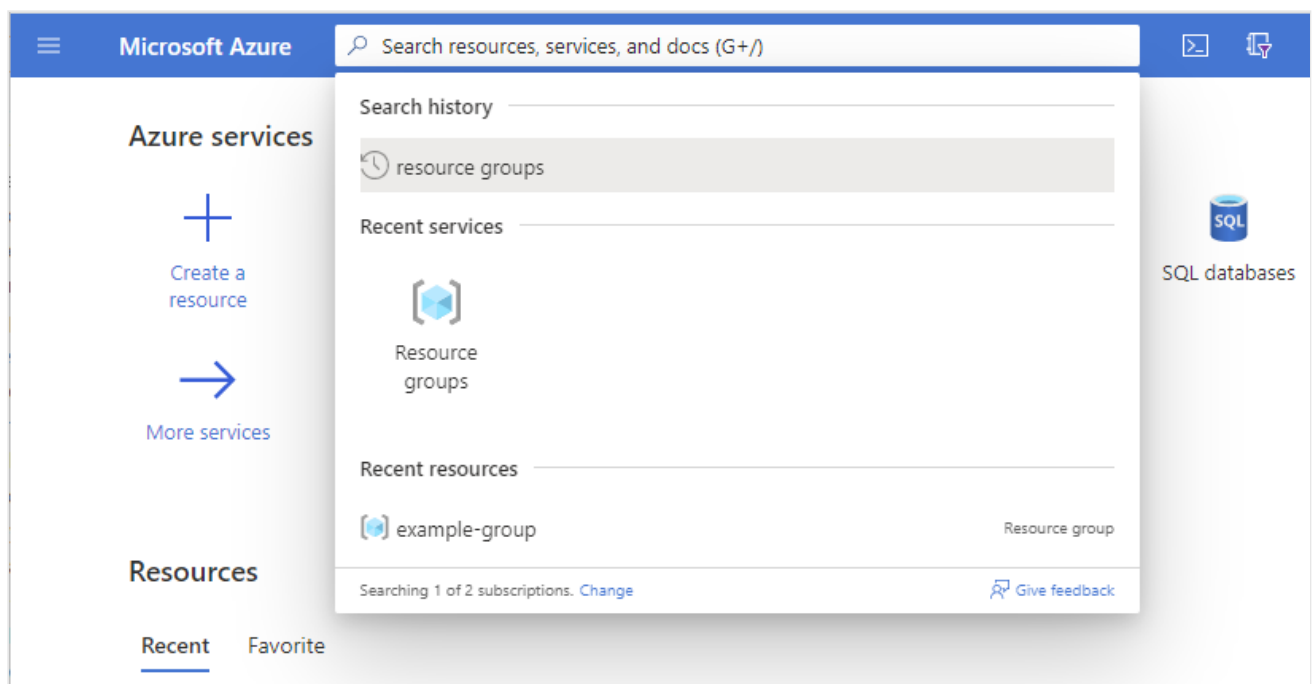
8 minutes

A co-worker named Alain at First Up Consultants needs permission to create and manage virtual machines for a project on which he's working. Your manager has asked that you handle this request. Using the best practice to grant users the least privileges to get their work done, you decide to assign Alain the Virtual Machine Contributor role for a resource group.

## Grant access

Follow this procedure to assign the Virtual Machine Contributor role to a user at the resource group scope.

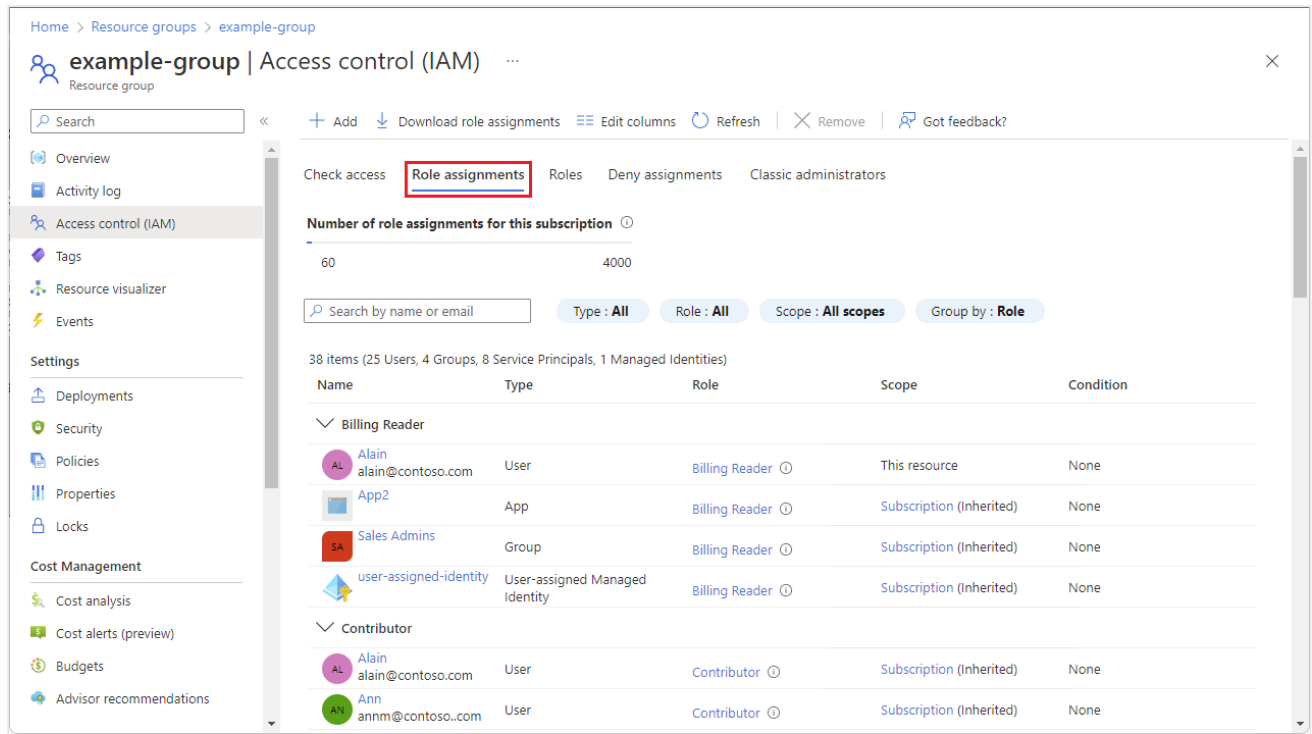
1. Sign in to the [Azure portal](#) as an administrator that has permissions to assign roles, such as [User Access Administrator](#) or [Owner](#).
2. In the Search box at the top, search for **Resource groups**.



3. In the list of resource groups, select a resource group.

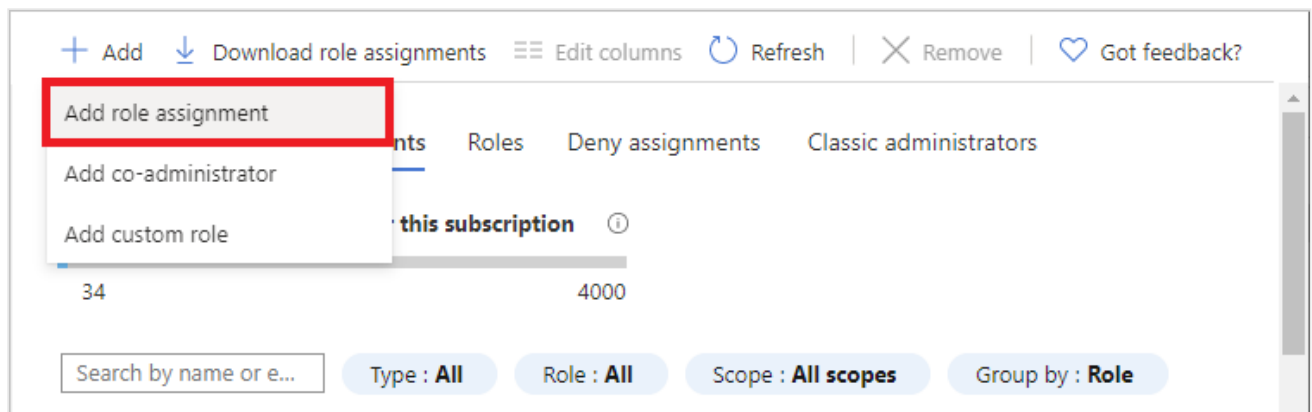
These steps use a resource group named **example-group**, but your name will be different.

- On the left menu pane, select **Access control (IAM)**.
- Select the **Role assignments** tab to display the current list of role assignments at this scope.



- Select **Add > Add role assignment**.

If you don't have permissions to assign roles, the **Add role assignment** option will be disabled.



The **Add role assignment** page opens.

- On the **Roles** tab, search for and select **Virtual Machine Contributor**.

Home > Resource groups > example-group | Access control (IAM) >

## Add role assignment

Got feedback?

**Role** Members 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](#)

virtual machine Type: All Category: All

Showing 10 of 372 roles

Name	Description	Type	Category	Details
Classic Virtual Machine Contributor	Lets you manage classic virtual machines, but not access to them, and not t...	BuiltInRole	Compute	<a href="#">View</a>
Desktop Virtualization Power On Contributor	This role is in preview and subject to change. Provide permission to the Azur...	BuiltInRole	None	<a href="#">View</a>
Desktop Virtualization Power On Off Contri...	This role is in preview and subject to change. Provide permission to the Azur...	BuiltInRole	None	<a href="#">View</a>
Desktop Virtualization Virtual Machine Cont...	This role is in preview and subject to change. Provide permission to the Azur...	BuiltInRole	None	<a href="#">View</a>
DevTest Labs User	Lets you connect, start, restart, and shutdown your virtual machines in your ...	BuiltInRole	Devops	<a href="#">View</a>
Virtual Machine Administrator Login	View Virtual Machines in the portal and login as administrator	BuiltInRole	Compute	<a href="#">View</a>
Virtual Machine Contributor	Lets you manage virtual machines, but not access to them, and not the virtu...	BuiltInRole	Compute	<a href="#">View</a>
Virtual Machine Local User Login	View Virtual Machines in the portal and login as a local user configured on t...	BuiltInRole	None	<a href="#">View</a>
Virtual Machine Operator	Can monitor and restart virtual machines.	CustomRole	None	<a href="#">View</a>

Review + assign Previous Next

8. Select **Next**.

9. On the **Members** tab, select **Select members**.

10. Search for and select a user.

Home > Resource groups > example-group | Access control (IAM) >

## Add role assignment

Got feedback?

**Role** **Members** 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

Select

alain

AT Alain Team

Selected members:

AL Alain  
alain@contoso.com [Remove](#)

Select Close

11. Select **Select** to add the user to the Members list.
12. Select **Next**.
13. On the **Review + assign** tab, review the role assignment settings.
14. Select **Review + assign** to assign the role.

After a few moments, the user is assigned the Virtual Machine Contributor role at the resource group scope. The user can now create and manage virtual machines just within this resource group.

Number of role assignments for this subscription ⓘ


58 4000

Search by name or email

Type : All Role : Virtual Machine Contributor Scope : All scopes Group by : Role

Showing a filtered set of results. Total number of role assignments: 36

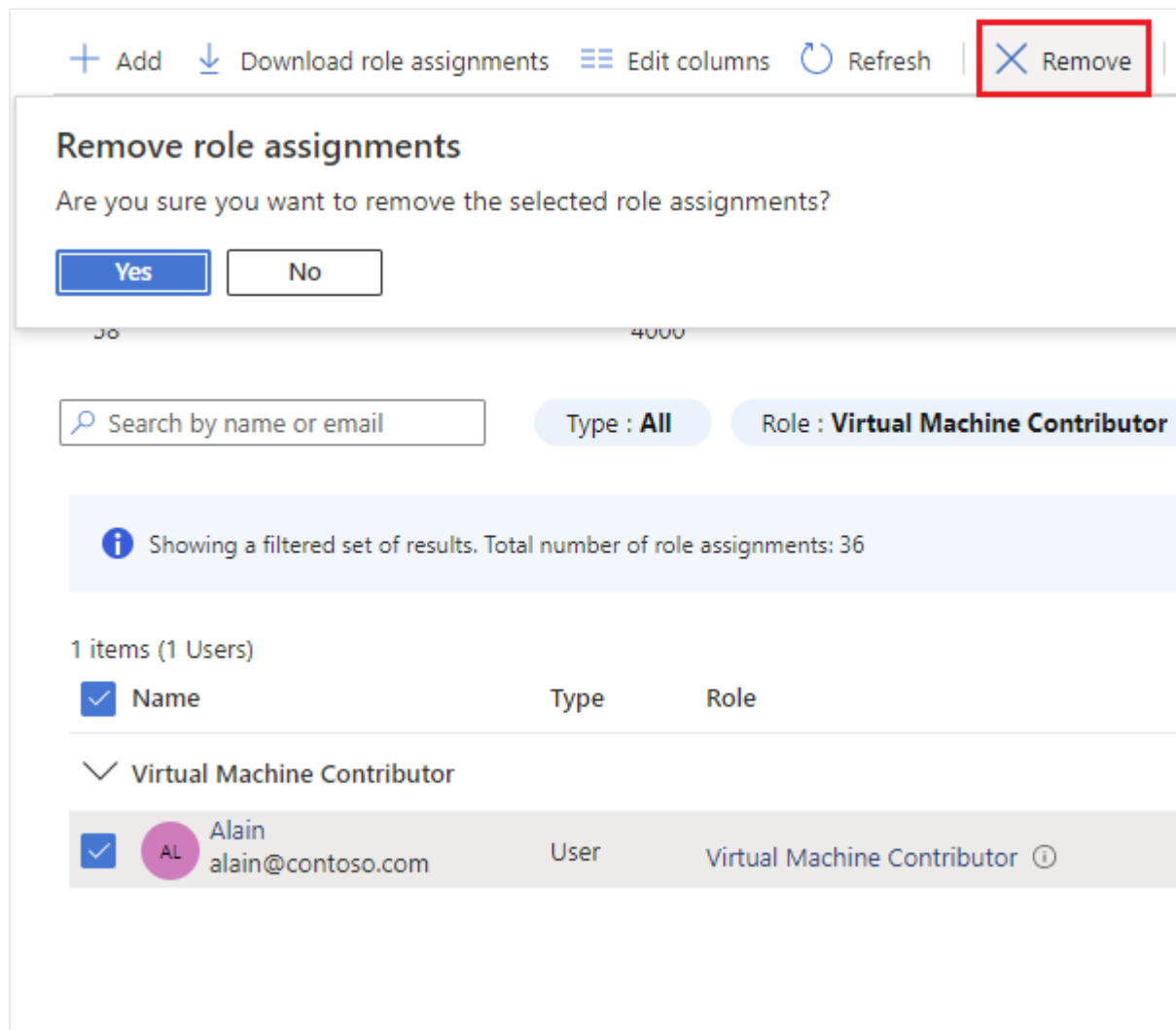
1 items (1 Users)

<input type="checkbox"/> Name	Type	Role	Scope	Condition
<input checked="" type="checkbox"/> Virtual Machine Contributor				
<input type="checkbox"/>  Alain alain@contoso.com	User	Virtual Machine Contributor ⓘ	This resource	None

## Remove access

In Azure RBAC, you'll remove a role assignment to remove access.

1. In the list of role assignments, select the user with the Virtual Machine Contributor role.
2. Select **Remove**.



Remove role assignments

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

Search by name or email

Type : All Role : Virtual Machine Contributor

Showing a filtered set of results. Total number of role assignments: 36

1 items (1 Users)

<input checked="" type="checkbox"/>	Name	Type	Role
<input checked="" type="checkbox"/>	Alain alain@contoso.com	User	Virtual Machine Contributor ⓘ

3. In the **Remove role assignments** message that appears, select **Yes**.

In this unit, you learned how to grant a user access to create and manage virtual machines in a resource group using the Azure portal.

## Next unit: Exercise - View activity logs for Azure RBAC changes

[Continue >](#)

How are we doing? ☆ ☆ ☆ ☆ ☆