



Lab 14: Manage access with RBAC

At the end of each lab, any resources you created in your account will be preserved. Some Azure resources, such as VM instances, may be automatically shut down, while other resources, such as storage services will be left running. Keep in mind that some Azure features cannot be stopped and can still incur charges (i.e. Azure Bastion). To minimize your costs, delete all resources and recreate them as needed to test your work during a session.

The screenshot shows the 'Azure for Students' subscription page. The left sidebar contains navigation links: Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Security, and Events. The main content area has a top bar with a search box and action links: Upgrade, Cancel subscription, Rename, Change directory, Transfer billing ownership, and Feedback. Below this is a warning banner about checking remaining credit. The 'Essentials' section displays subscription details in a table format.

Essentials	
Subscription ID	[Redacted]
Subscription name	: Azure for Students
Directory	: Seneca (seneca.onmicrosoft.com)
Current billing period	: 9/13/2021-10/12/2021
My role	: Account admin
Currency	: CAD
Offer	: Azure for Students
Status	: Active
Offer ID	: MS-AZR-0170P
Secure score	: Not available

Reference: [AZ-900T0X-MICROSOFTAZUREFUNDAMENTALS](#)

14 - Manage access with RBAC

In this walkthrough, we will assign roles and view activity logs.

Task 1: View and assign roles (5 min)

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**.
3. Create a new resource group. Click **Create** when you are finished.

Setting	Value
Subscription	Choose your subscription
Resource group	myRGRBAC
Region	(US) East US

4. Create **Review + create** and then click **Create**.
5. **Refresh** the resource group page and click the entry representing the newly created resource group.

- 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.

Visual Studio Enterprise - Access control (IAM)

Subscription

Search (Ctrl+/)

Overview

Activity log

Access control (IAM)

Diagnose and solve problems

Security

Events

+ Add Edit columns Refresh Remove Got feedback?

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

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](#)

<input type="checkbox"/>	Name	Type	Users	Groups
<input type="checkbox"/>	Owner ⓘ	BuiltInRole	0	0
<input type="checkbox"/>	Contributor ⓘ	BuiltInRole	4	0
<input type="checkbox"/>	Reader ⓘ	BuiltInRole	1	0

- Switch to the **Role assignments** tab of the **myRGRBAC - Access control (IAM)** blade, click **+ Add** and then click **Add role assignment**. Assign the Virtual Machine Contributor role to your user account, then click **Save**.

Setting	Value
Role	Virtual machine contributor
Assign access to	user, group, or service principal

Setting	Value
Select	your user account

8. **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.

Home > myVMTemplate - Access control (IAM) > Visual Studio Enterprise - Access control (IAM)

Visual Studio Enterprise - Access control (IAM)

Subscription

Search (Ctrl+ /)

Overview
Activity log
Access control (IAM)
Diagnose and solve problems
Security
Events

Cost Management
Cost analysis
Budgets

+ Add Edit columns Refresh Remove Got feedback?

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

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](#)

Add role assignment

Role ⓘ
Virtual Machine Contributor

Assign access to ⓘ
Azure AD user, group, or service principal

Select ⓘ
Cindy ✓

9.

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

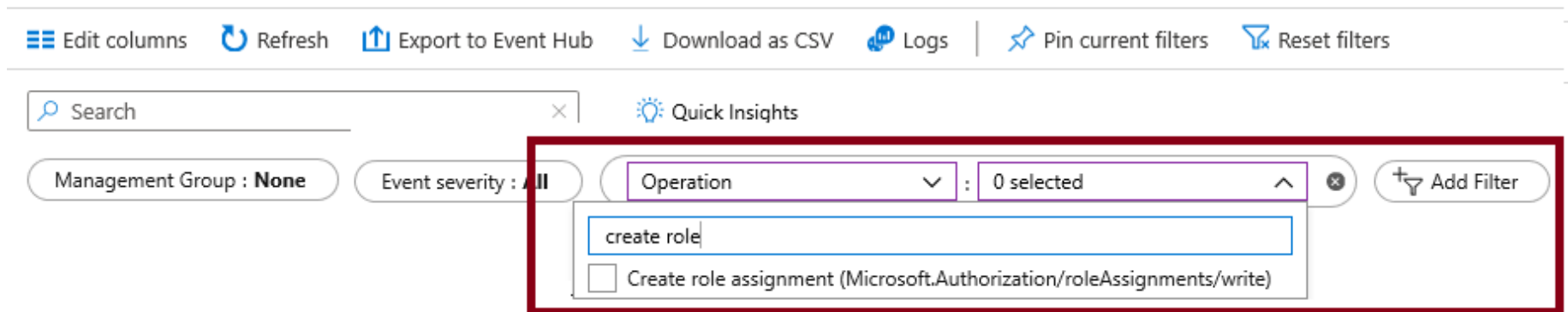
Note: This assignment does not actually grant you any additional privileges, since your account has already the Owner role, which includes all privileges associated with the Contributor role.

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**.

Activity log



The screenshot shows the Azure Activity Log interface. At the top, there are several action buttons: 'Edit columns', 'Refresh', 'Export to Event Hub', 'Download as CSV', 'Logs', 'Pin current filters', and 'Reset filters'. Below these is a search bar and a 'Quick Insights' button. The main area displays filters for 'Management Group : None' and 'Event severity : All'. A red box highlights the 'Add Filter' button, which has been clicked, opening a dropdown menu. The dropdown menu shows the selected filter 'Operation' with a value of '0 selected'. Below this, a search bar contains the text 'create role', and a list item is visible: 'Create role assignment (Microsoft.Authorization/roleAssignments/write)' with an unchecked checkbox.

3. Verify the Activity log shows your role assignment.

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

Congratulations! You have assigned roles and viewed activity logs.

Note: To avoid additional costs, you can remove all resources in the resource group. Search for resource groups, click your resource group, and then delete the resources within the resource group. **DO NOT DELETE YOUR RESOURCE GROUP.**

Submission Requirements

Submit a screenshot with the following information:

Screenshot #1:

- Results of a filter applied on the Activity logs
- The Azure Portal with your login ID

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the 'Microsoft Azure' logo, a search bar, and user information for 'dtrinh1@myseneca.ca'. The main content area is titled 'myRGRBAC | Activity log' and shows a list of activity logs. The left sidebar contains navigation options like 'Overview', 'Activity log', 'Access control (IAM)', 'Tags', 'Events', 'Settings', 'Deployments', and 'Security'. The right sidebar shows filters for 'Management Group', 'Subscription', 'Event severity', and 'Timespan'. The main table displays one item: 'Create role assignment (Microsoft.Authorization/role...)' with a status of 'Succeeded' and a time stamp of 'Mon Apr 05...'. The user 'dtrinh1@myseneca.ca' is listed as the event initiator.

Operation name	Status	Time	Time stamp	Subscription	Event initiated by
Create role assignment	Succeeded	3 minutes a...	Mon Apr 05...	Azure for Students	dtrinh1@myseneca.ca

Screenshot #2:

- Successful deletion of resources within resource group. **DO NOT DELETE YOUR RESOURCE GROUP!**

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the Microsoft Azure logo, a search bar, and user information (dtrinh1@myseneca.ca). The main content area is titled 'Resource groups' and shows a list of resource groups. The 'myRG' resource group is selected, and its 'Overview' tab is active. The 'Overview' tab displays the subscription details, including the subscription ID (3e6685e5-073e-4397-8a34-b9022c3952d9) and the location (East US). Below this, the 'Resources' section is visible, showing a list of resources. The status 'Showing 0 to 0 of 0 records' is displayed, indicating that all resources within the resource group have been successfully deleted. The 'Essentials' section on the right provides a quick overview of the resource group's state, including the number of deployments (No deployments) and the location (East US).