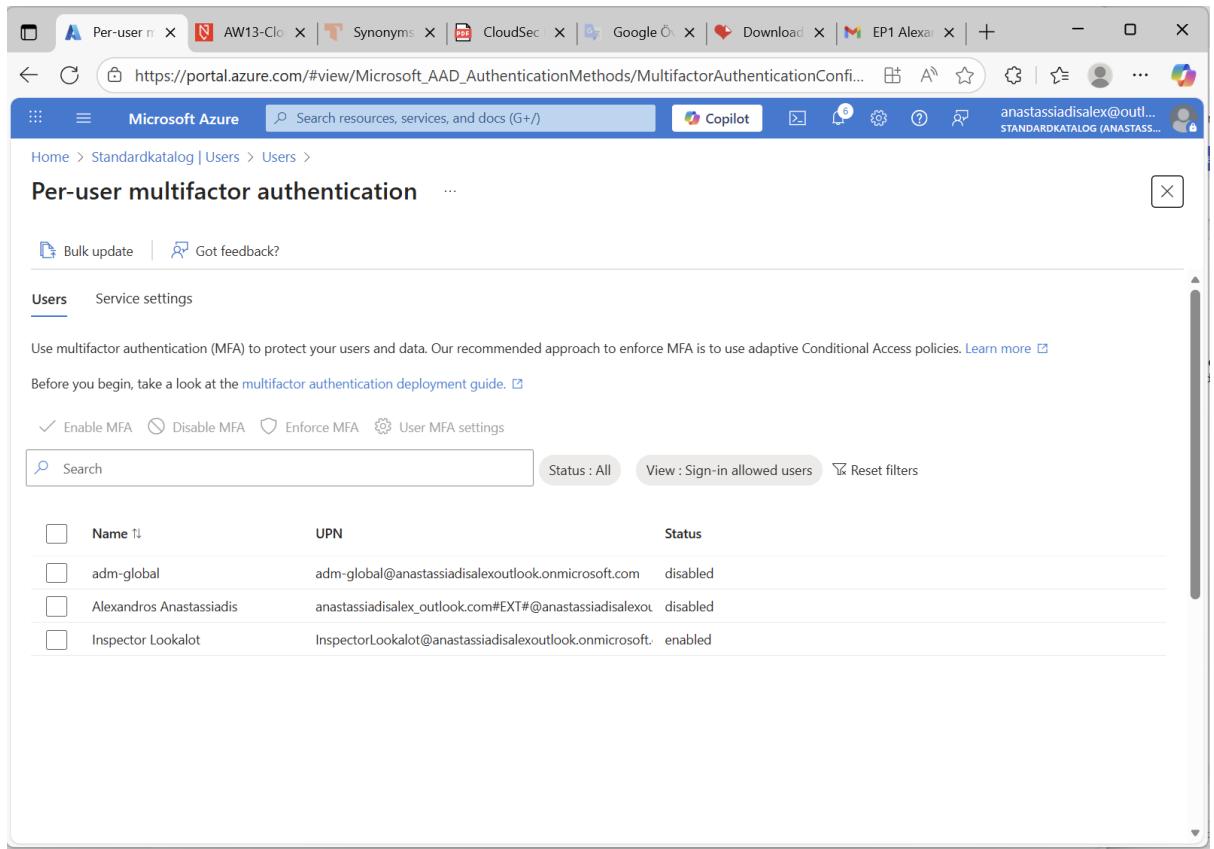


TASKS:

1. Do – I did a user in the microsoft entra ID and the user account by name Inspector Lookalot.
Why – Creating different users help admins to keep control of all of them and also their roles and where to give or take away permissions etc.
Outcome – The user is shown in the users within entra ID in the list.



The screenshot shows the Microsoft Azure portal interface. The URL in the address bar is https://portal.azure.com/#view/Microsoft_AAD.AuthenticationMethods/MultifactorAuthenticationConfiguration. The page title is "Per-user multifactor authentication".

The main content area shows a table of users under the heading "Users". The columns are "Name", "UPN", and "Status". There are four users listed:

Name	UPN	Status
adm-global	adm-global@anastasiadisalexoutlook.onmicrosoft.com	disabled
Alexandros Anastassiadis	anastasiadisalex_outlook.com#EXT#@anastasiadisalexoutlook.onmicrosoft.com	disabled
Inspector Lookalot	InspectorLookalot@anastasiadisalexoutlook.onmicrosoft.com	enabled

2. Do – I made sure that MFA is enabled and turned on for Inspector Lookalot user which is going to demand a second verification.
Why – The MFA is a strong thing to enable on users as it is reducing the risk for hackers or unauthorized users to access even if they get their hands on the password.
Outcome – MFA is shown enabled and next time signing in the user will be shown to fix MFA for verification.
3. Do – I made a resource group that is named accordingly (CSReadOnly) with location put to West Europe.
Why – A resource group is easier to keep control of all the resources created later on and know where everything is stored.
Outcome – The RG is shown in the resource group lists and also as everything is shown in the activity logs.

The screenshot shows the Microsoft Azure portal interface. At the top, there's a navigation bar with various tabs and a Copilot button. Below it, the main title is "CSReadOnly" under "Resource group". On the left, there's a sidebar with links for Activity log, Access control (IAM), Tags, Resource visualizer, Events, Settings, Cost Management, Monitoring, Automation, and Help. The main content area has a heading "Essentials" with sections for Subscription (move), Azure for Students, Subscription ID (84a03b43-9060-460a-b879-35e6745cd249), Deployments (No deployments), and Location (West Europe). Below this is a "Resources" section with a "Recommendations" tab selected. It includes a search bar, filter buttons for "Type equals all" and "Location equals all", and a "Create" button. A large message in the center says "No resources match your filters" with a "Try changing or clearing your filters." link. At the bottom, there's a note about keyboard shortcuts and a "Give feedback" link.

4. Do – I made a windows server 2022 virtual machine named after my initials AA1 and put in the RG i made before.
Why – With the virtual machine inside the RG its a lot easier to keep things under control such as policies scopes etc.
Outcome – The virtual machine is shown in the RG and the screenshot provided.

The screenshot shows the Microsoft Azure portal interface. At the top, there is a navigation bar with several tabs and links. Below the navigation bar, the main title is "CreateVm-MicrosoftWindowsServer.WindowsServer-202-20251112135346 | Overview". On the left, there is a sidebar with a tree view of the VM's configuration, including sections for Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Resource visualizer, Connect, Networking, Settings, Availability + scale, Size, Availability + scaling, Security, Backup + disaster recovery, Operations, Monitoring, and Automation. The main content area displays the VM's details under the "Essentials" section. The details include:

Setting	Value
Resource group	move CSRead Only
Status	Running
Location	West Europe (Zone 3)
Subscription	move Azure for Students
Subscription ID	84a03b43-9060-460a-b879-35e6745cd249
Availability zone	3
Operating system	Windows
Size	Standard B1s (1 vcpu, 1 GiB memory)
Primary NIC public IP	(empty)
Virtual network/subnet	vnet-westeuropewebnet-westeuropeweb-1
DNS name	(empty)
Health state	(empty)
Time created	2025-11-12 12:55 UTC

At the bottom of the main content area, there are "Tags (edit)" and "Add tags" buttons. The JSON View button is located at the top right of the essentials section.

5. Do – I went into the RG then assigned the user Inspector Lookalot to the Reader role.

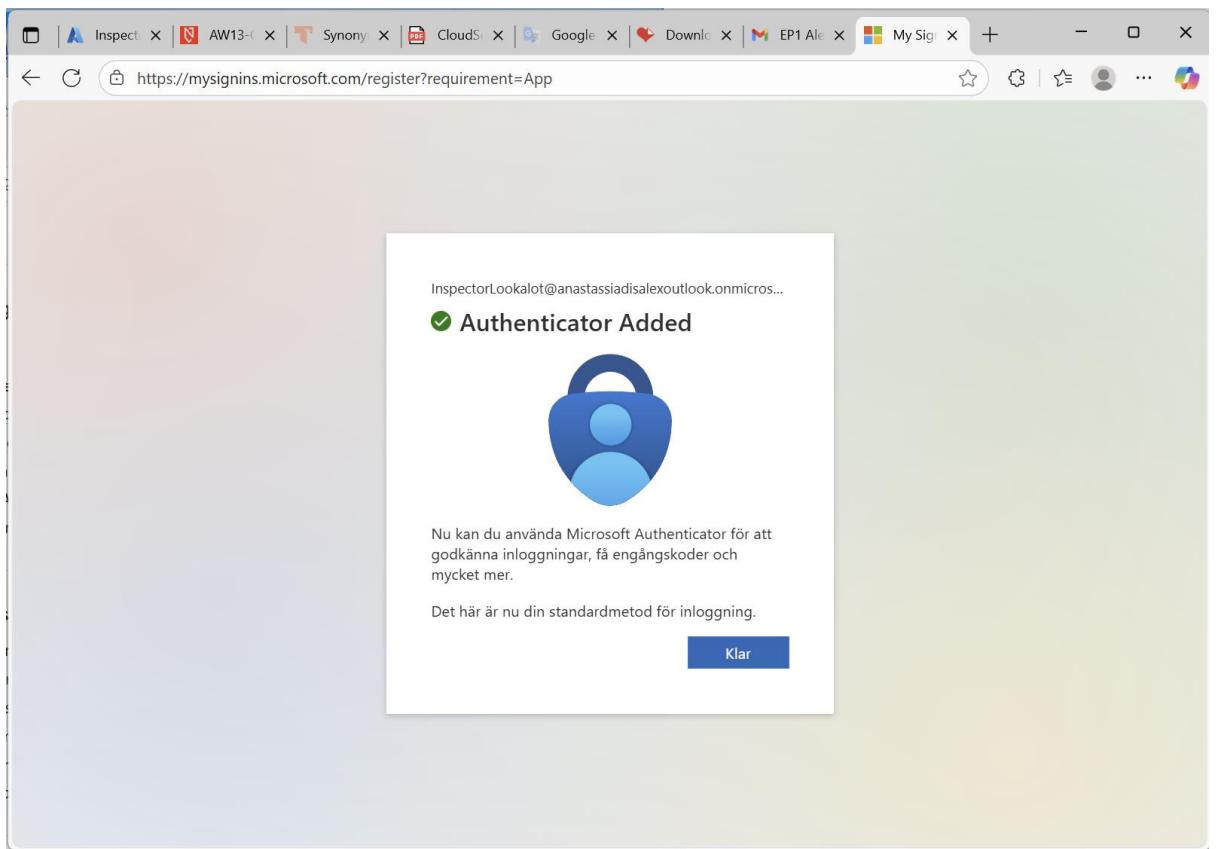
Why – Reader role is making sure that the user is in view only mode and making sure that the user can see things settings and so on but not change or delete them.

Outcome – IAM list will display the user having the newly added role.

The screenshot shows the Microsoft Azure portal's Access control (IAM) blade for the 'CSReadOnly' resource group. The left sidebar includes options like Tags, Resource visualizer, Events, Settings, Cost Management, Monitoring, Automation, and Help. The main area displays a table of roles:

	Name	Type	Role	Scope	Condition
Owner (2)	Alexandros Anas... a5128dad-8d36...	User	Owner	Subscription (Inheri... None	
Owner (2)	Alexandros Anas... a5128dad-8d36...	User	Owner	Subscription (Inheri... None	
Reader (2)	Cloud Infrastruc... b46c3ac5-9da6...	Service principal	Reader	Subscription (Inheri... None	
Reader (2)	Inspector Lookalot 3af1cfb1-3065-4...	User	Reader	This resource None	
Defender CSPM Storage Scanner Operator (1)	CloudPosture/s... e9aba03a-2a79...	Managed identity	Defender CSPM Storag...	Subscription (Inheri... None	
Defender Kubernetes API Access (1)	CloudPosture/s... e9aba03a-2a79...	Managed identity	Defender Kubernetes A...	Subscription (Inheri... None	

6. Do – I went into the user i newly created and then into the RG and the VM AA1 overview page.
 Why – Using a different side because of the MFA enabled and had to create the MFA and set a new password aswell as it is demonstrating a real world example of another user logging in.
 Outcome – User managed to go to the RG and the resource of the virtual machine.



7. Do – Tried to restart the virtual machine with Inspector Lookalots account.
Why – This shows how the reader role is working that the user weren't able to modify the resource.
Outcome – The action were failed as shown in the screenshot which is another confirmation of the role in play.

8. Do – Same as step 5 but changed the role to contributor from reader in the RG.

Why – Contributor role is an administrator one which gives full access to the resource group.

Outcome – The change was made and shown once again in the list under the user with the new role.

9. Do – Went back to Inspector Lookalots session refreshed the website and then tried to restart the VM now with the contributor role.

Why - The contributor role is giving administrator access with certain permissions in the RG.

Outcome – The restart of the VM was a success as shown in the picture provided.

The screenshot shows the Microsoft Azure portal interface. The URL in the address bar is <https://portal.azure.com/#@anastassiadisalexoutlook.onmicrosoft.com/resource/subscriptions/84a03b4...>. The main content area displays the 'AA1' Virtual machine details. On the left, there's a navigation sidebar with options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Resource visualizer, Availability + scale, Security, Backup + disaster recovery, Operations, Monitoring, and Automation. The 'Overview' tab is selected. In the center, there's a 'Help me copy this VM in any region' button and a 'Connect' dropdown menu with options like Start, Restart, Stop, Hibernate, and more. Below this is a 'Properties' tab under the 'Essentials' section, which lists the following details:

Virtual machine	Computer name AA1
	Operating system Windows (Windows Server 2022 Datacenter Azure Edition)
	VM generation V2
	VM architecture x64
	Agent status Ready
	Agent version

On the right side, there's a 'Notifications' panel titled 'Notifications' with a 'More events in the activity log' link and a 'Dismiss all' button. It shows a single event: 'Successfully restarted virtual machine' with a checkmark icon, followed by the text 'Successfully restarted the virtual machine 'AA1''. The timestamp is 'a few seconds ago'. The bottom of the screen shows the URL [https://portal.azure.com/#blade/Microsoft_Azure_ActivityLog/ActivityLogBlade/queryInputs/%7B"user%3A%40me%7D](https://portal.azure.com/#blade/Microsoft_Azure_ActivityLog/ActivityLogBlade/queryInputs/%7B).

10. Do – I viewed the activity logs for the RG as well as the VM to inspect.

Why – The logs is a proof of when roles is being put or changed etc and shows us both that it works and confirming the action.

Outcome – The logs is showing a failed restart when the reader role is set and a successful one with the contributor role set which is showing that it all works as it should.

Operation name	Status	Time	Time stamp	Subscription	Event initiated by
✓ ▲ 'audit' Policy action.	Succeeded	25 minutes ...	Wed Nov 1...	Azure for Students	anastassiadisalex@outloo...
▲ 'audit' Policy action.	Succeeded	36 minutes ...	Wed Nov 1...	Azure for Students	anastassiadisalex@outloo...
▲ 'audit' Policy action.	Succeeded	26 minutes ...	Wed Nov 1...	Azure for Students	anastassiadisalex@outloo...
▲ 'audit' Policy action.	Succeeded	26 minutes ...	Wed Nov 1...	Azure for Students	anastassiadisalex@outloo...
▲ 'audit' Policy action.	Succeeded	26 minutes ...	Wed Nov 1...	Azure for Students	anastassiadisalex@outloo...
▲ 'audit' Policy action.	Succeeded	26 minutes ...	Wed Nov 1...	Azure for Students	anastassiadisalex@outloo...
▲ 'audit' Policy action.	Succeeded	26 minutes ...	Wed Nov 1...	Azure for Students	anastassiadisalex@outloo...
▲ 'audit' Policy action.	Succeeded	26 minutes ...	Wed Nov 1...	Azure for Students	anastassiadisalex@outloo...
▲ 'audit' Policy action.	Succeeded	26 minutes ...	Wed Nov 1...	Azure for Students	anastassiadisalex@outloo...
▲ 'audit' Policy action.	Succeeded	25 minutes ...	Wed Nov 1...	Azure for Students	anastassiadisalex@outloo...
Health Event Updated	Updated	36 minutes ...	Wed Nov 1...	Azure for Students	
Health Event Updated	Updated	36 minutes ...	Wed Nov 1...	Azure for Students	

Summary:

This environment that was made is showing how MFA as well as Role-Based-Access-Control is working together and forming a strong secure policy with defense in depth kind of style with multiple layers.

By beginning with the reader role it was shown that users can be a part of the RG and see the resources within it but not being able to mix around with the settings like modify or delete one.

Then putting the contributor role which is an administrator role it showed how it were able to restart the resource in this case the virtual machine and the activity logs is also showing who tried or actually did an action.

So its safe to say that this is a vital part of organisations to have and helps them to know who's able to do more or less stuff within the organisation. Also being able to tell who tried to do what in the activity logs.

CSRead x AW13- x Synony x CloudS x Google x Downlo x EP1 Ale x AA1 - M x + Microsoft Azure Search resources, services, and docs (G+) Copilot Home > Resource groups > CSReadOnly CSReadOnly | Activity log Resource group

Activity log Overview

Looking for Log Analytics? In Log Analytics you can search for performance, diagnostics, health logs, and more. Visit Log Analytics

Search administrative operations Quick Insights

Management Group : None Subscription : Azure for Students Event severity : All Timespan : Last 6 hours

Resource group : CSReadOnly Event initiated by : All Resource : All resources Add Filter

10 items.

Operation name	Status	Time	Time stamp	Subscription	Event initiated by
> <i>Restart Virtual Machine</i>	Succeeded	5 minutes a...	Wed Nov 1...	Azure for Students	InspectorLookalot@anast...
> <i>Delete role assignment</i>	Succeeded	11 minutes ...	Wed Nov 1...	Azure for Students	anastassiadisalex@outloo...
> <i>Create role assignment</i>	Succeeded	12 minutes ...	Wed Nov 1...	Azure for Students	anastassiadisalex@outloo...
> <i>Create or Update Disk</i>	Succeeded	21 minutes ...	Wed Nov 1...	Azure for Students	Managed Disks Resource ...
> <i>Create role assignment</i>	Succeeded	27 minutes ...	Wed Nov 1...	Azure for Students	anastassiadisalex@outloo...
> <i>Validate Deployment</i>	Succeeded	31 minutes ...	Wed Nov 1...	Azure for Students	anastassiadisalex@outloo...
> <i>Validate Deployment</i>	Succeeded	32 minutes ...	Wed Nov 1...	Azure for Students	anastassiadisalex@outloo...
> <i>Generate Recommendation</i>	Succeeded	33 minutes ...	Wed Nov 1...	Azure for Students	anastassiadisalex@outloo...
> <i>Update resource group</i>	Succeeded	38 minutes ...	Wed Nov 1...	Azure for Students	anastassiadisalex@outloo...

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