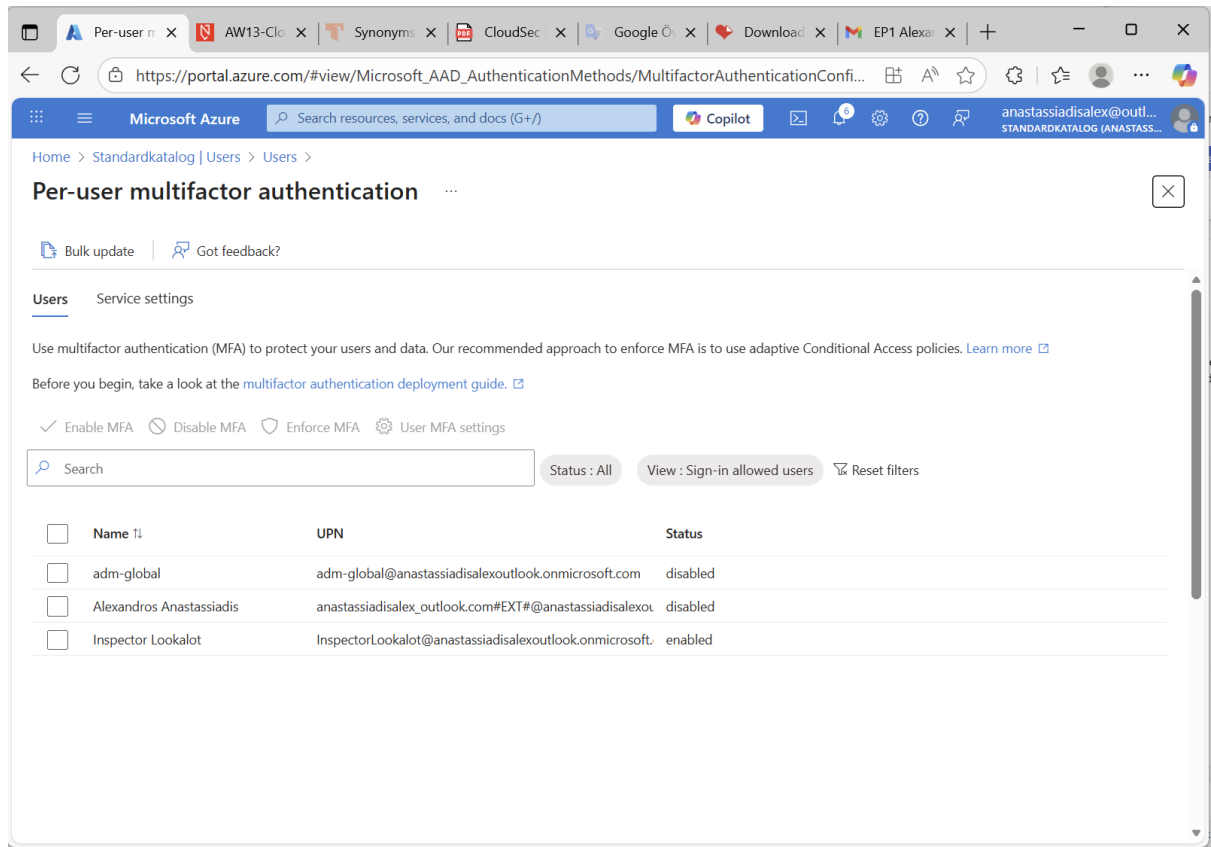
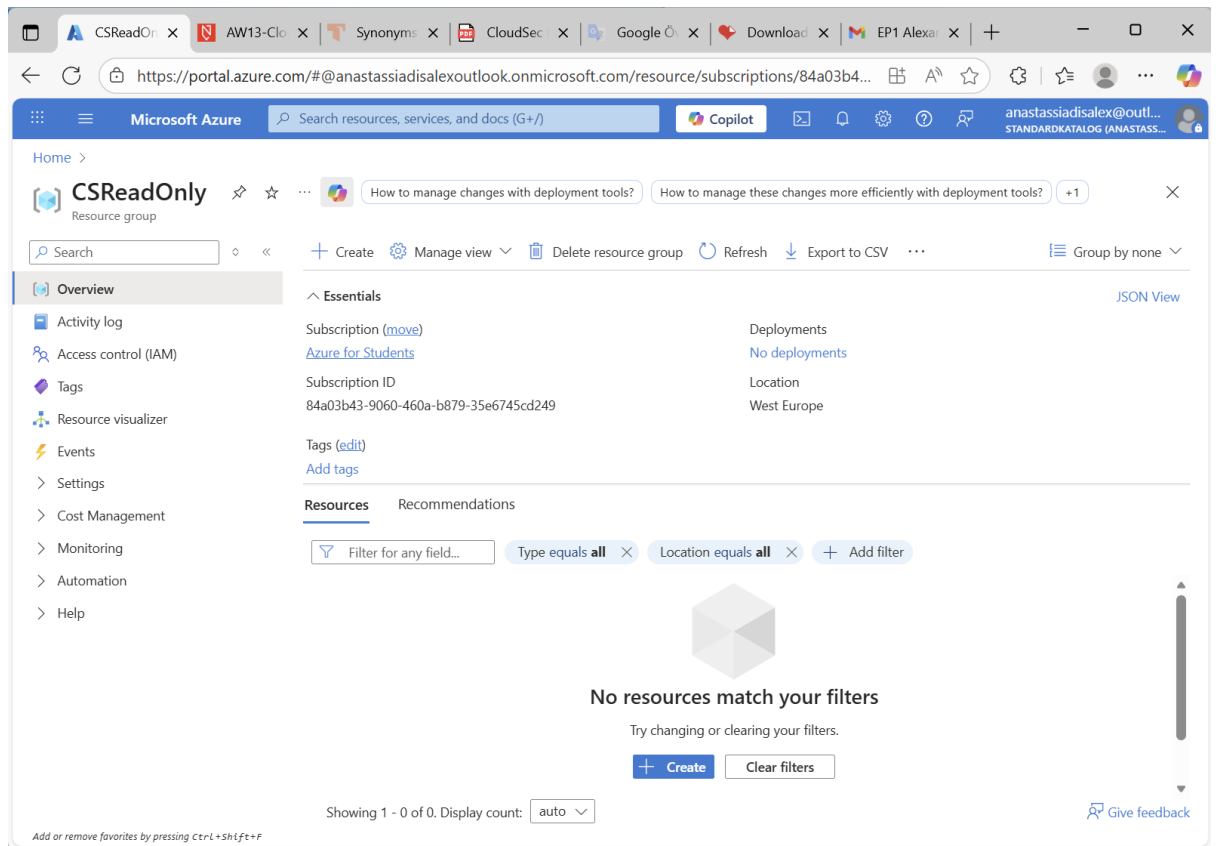


TASKS:

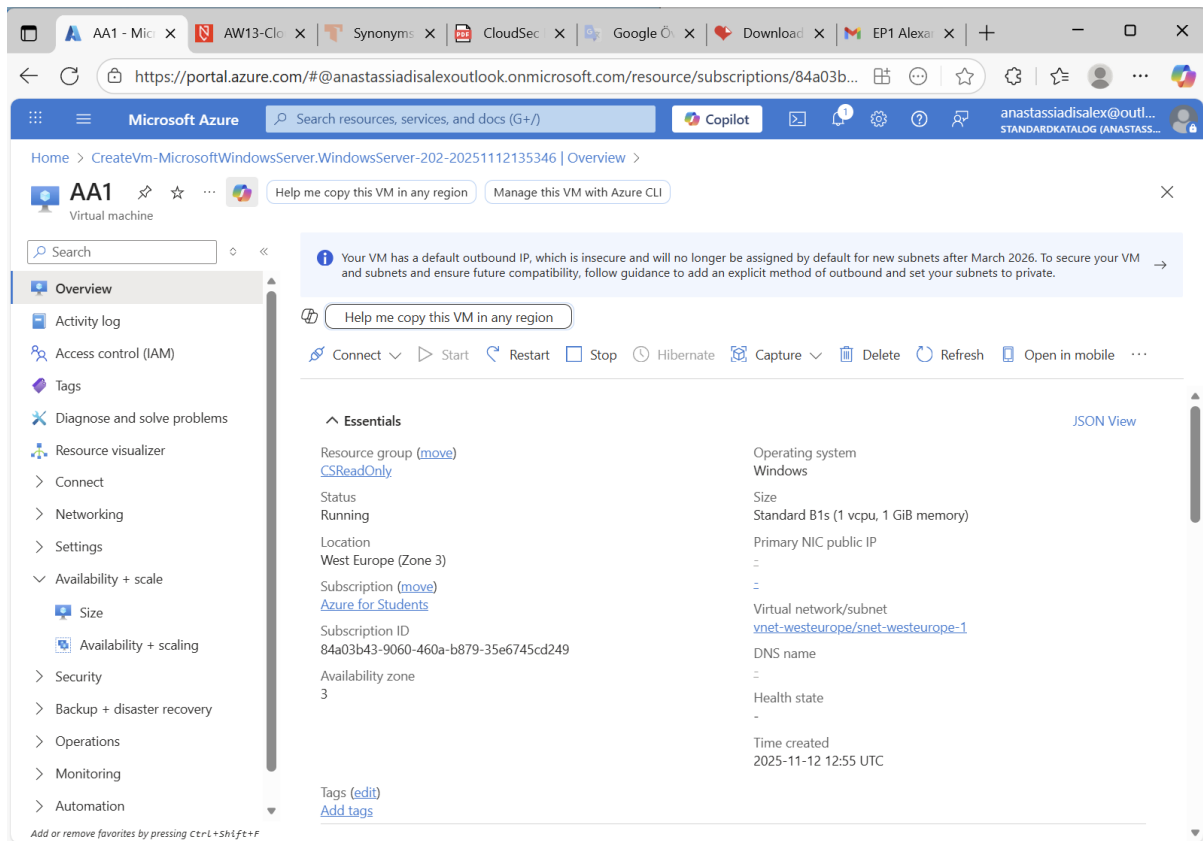
1. Do – I did a user in the microsoft entra ID and the user account by name Inspector Lookalot.
Why – Creating different users help admins to keep control of all of them and also their roles and where to give or take away permissions etc.
Outcome – The user is shown in the users within entra ID in the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



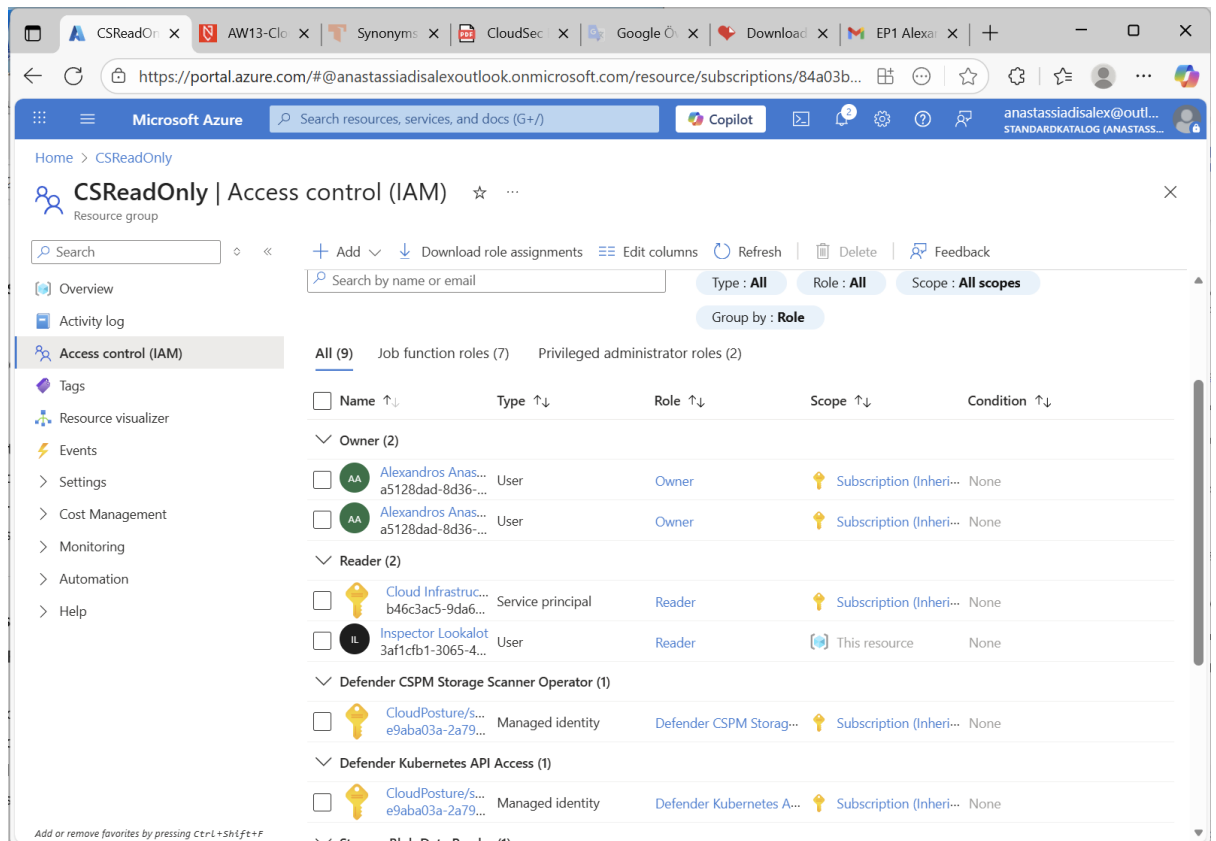
2. Do – I made sure that MFA is enabled and turned on for Inspector Lookalot user which is going to demand a second verification.
Why – The MFA is a strong thing to enable on users as it is reducing the risk for hackers or unauthorized users to access even if they get their hands on the password.
Outcome – 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.



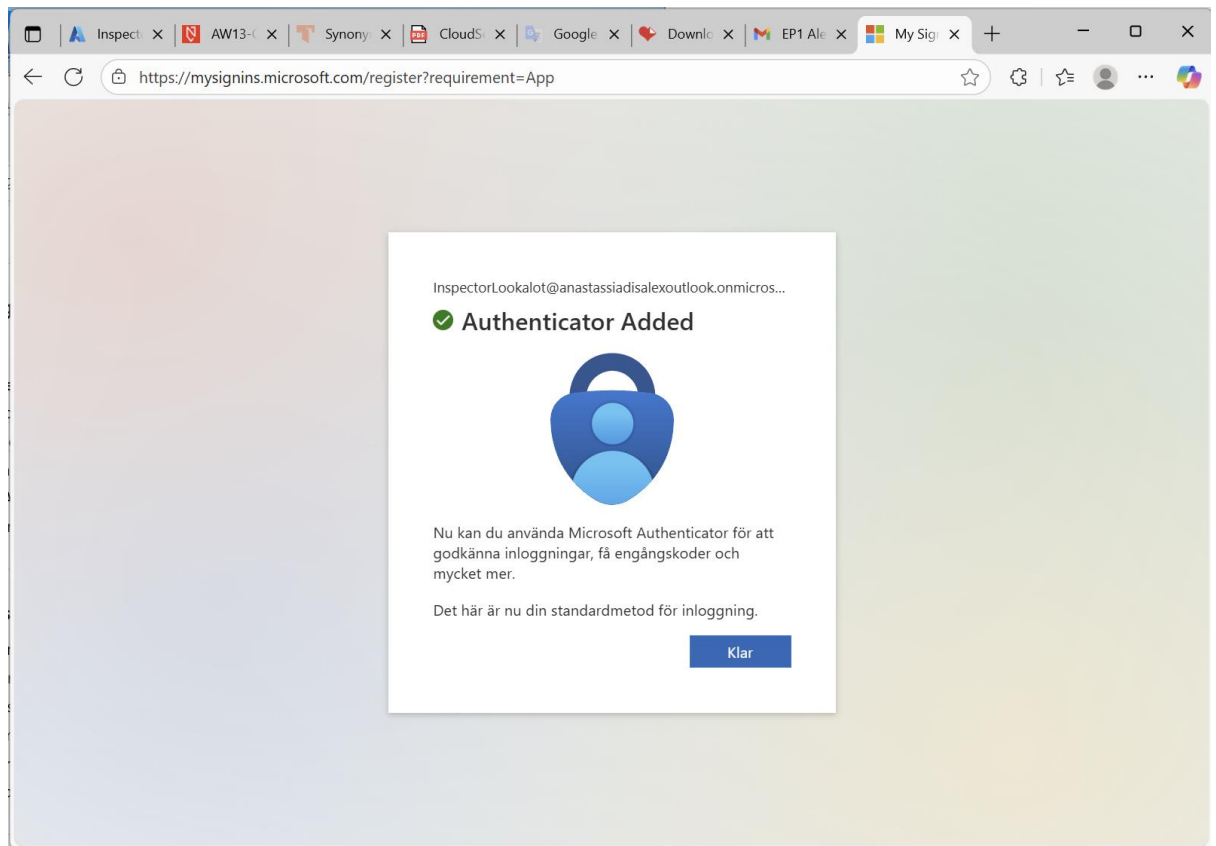
4. Do – I made a windows server 2022 virtual machine named after my initials AA1 and put in the RG i made before.
Why – With the virtual machine inside the RG its a lot easier to keep things under control such as policies scopes etc.
Outcome – The virtual machine is shown in the RG and the screenshot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



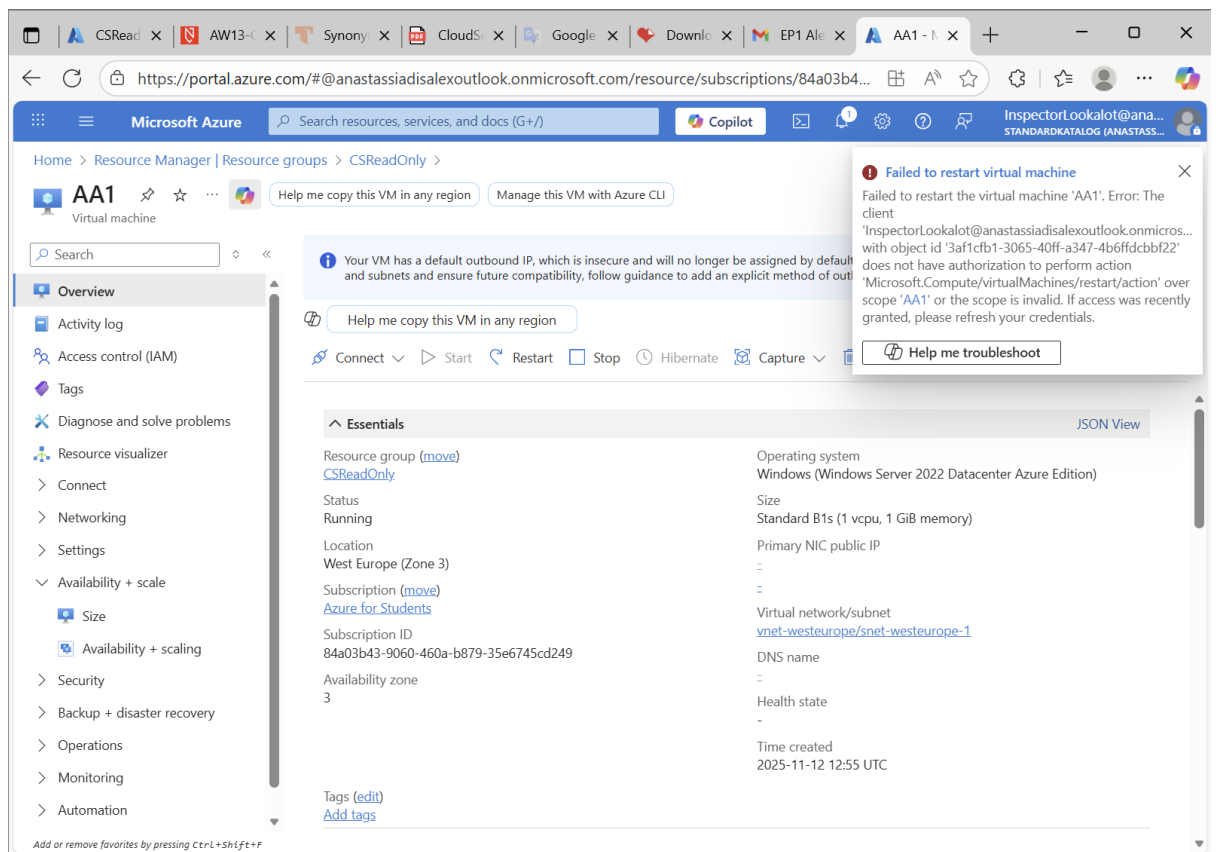
5. Do – I went into the RG then assigned the user Inspector Lookalot to the Reader role.
 Why – Reader role is making sure that the user is in view only mode and making sure that the user can see things settings and so on but not change or delete them.
 Outcome – IAM list will display the user having the newly added role.



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.



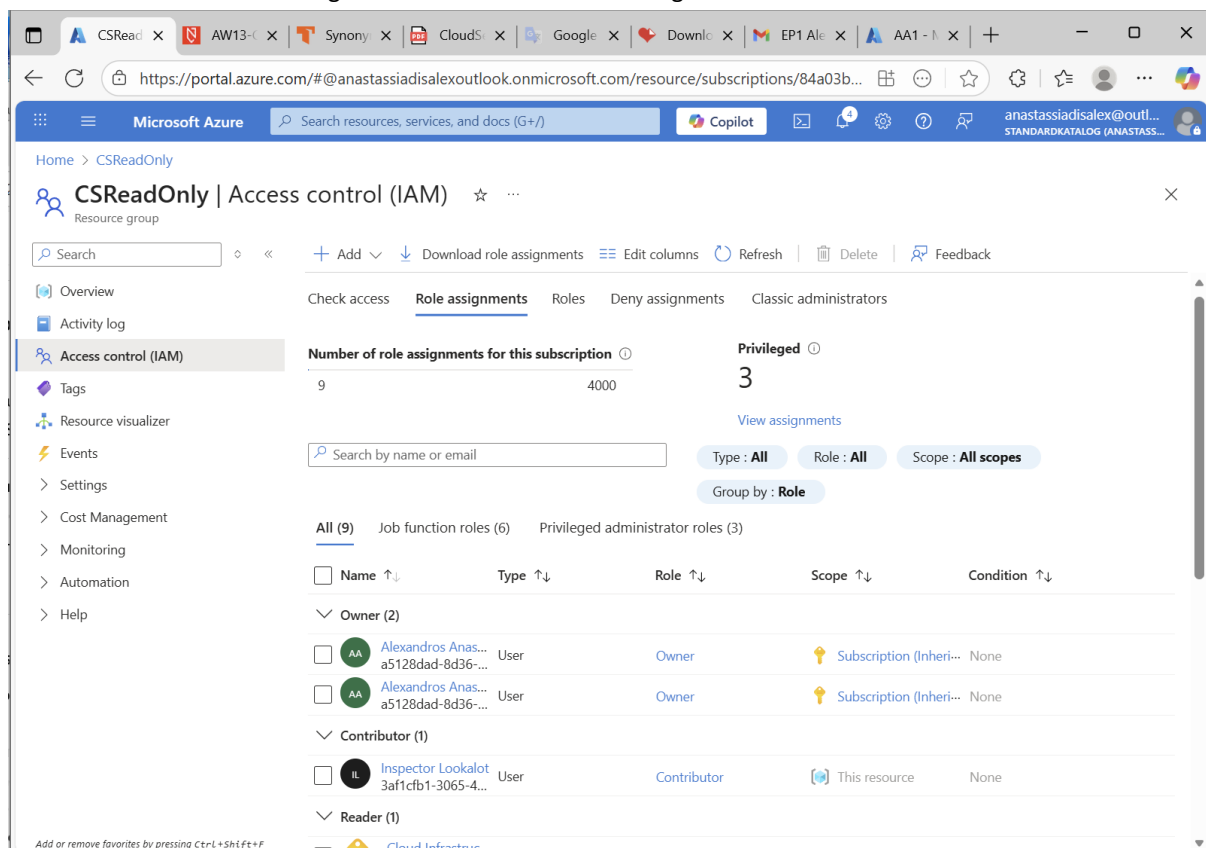
7. Do – Tried to restart the virtual machine with Inspector Lookalots account.
Why – This shows how the reader role is working that the user werent able to moify the resource.
Outcome – The action were failed as shown in the screenshot which is another confirmation of the role in play.



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.

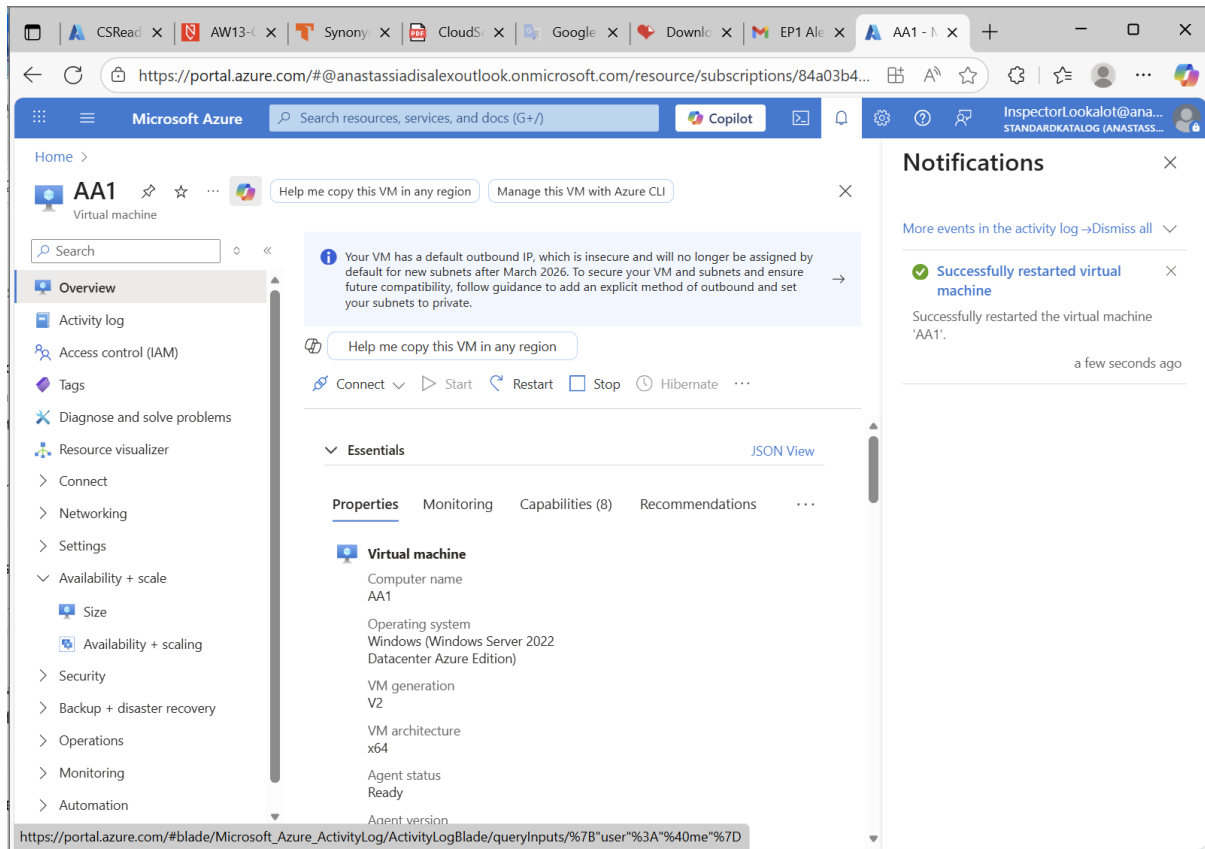
Outcome – The change was made and shown once again in the list under the user with the new role.



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.



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.

Home > Resource groups > CSReadOnly > AA1

AA1 | Activity log

Virtual machine

Search resources, services, and docs (G+)

Activity log filters: Management Group: None, Subscription: Azure for Students, Event severity: All, Timespan: Last 6 hours, Resource group: CSReadOnly

13 items.

| Operation name | Status | Time | Time stamp | Subscription | Event initiated by |
|--------------------------|-----------|----------------|--------------|--------------------|----------------------------|
| ✓ 'audit' Policy action. | Succeeded | 25 minutes ... | Wed Nov 1... | Azure for Students | anastasiadisalex@outloo... |
| ▲ 'audit' Policy action. | Succeeded | 36 minutes ... | Wed Nov 1... | Azure for Students | anastasiadisalex@outloo... |
| ▲ 'audit' Policy action. | Succeeded | 26 minutes ... | Wed Nov 1... | Azure for Students | anastasiadisalex@outloo... |
| ▲ 'audit' Policy action. | Succeeded | 26 minutes ... | Wed Nov 1... | Azure for Students | anastasiadisalex@outloo... |
| ▲ 'audit' Policy action. | Succeeded | 26 minutes ... | Wed Nov 1... | Azure for Students | anastasiadisalex@outloo... |
| ▲ 'audit' Policy action. | Succeeded | 26 minutes ... | Wed Nov 1... | Azure for Students | anastasiadisalex@outloo... |
| ▲ 'audit' Policy action. | Succeeded | 26 minutes ... | Wed Nov 1... | Azure for Students | anastasiadisalex@outloo... |
| ▲ 'audit' Policy action. | Succeeded | 26 minutes ... | Wed Nov 1... | Azure for Students | anastasiadisalex@outloo... |
| ▲ 'audit' Policy action. | Succeeded | 26 minutes ... | Wed Nov 1... | Azure for Students | anastasiadisalex@outloo... |
| ▲ 'audit' Policy action. | Succeeded | 25 minutes ... | Wed Nov 1... | Azure for Students | anastasiadisalex@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-Base-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 a 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 whos 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 Downl x EP1 Ale x AA1 - x +

https://portal.azure.com/#@anastassiadisalexoutlook.onmicrosoft.com/resource/subscriptions/84a03b...

Microsoft Azure Search resources, services, and docs (G+/) Copilot anastassiadisalex@outl... STANDARDKATALOG (ANASTASS...

Home > Resource groups > CSReadOnly

CSReadOnly | Activity log

Resource group

Search

Activity Edit columns Refresh Export Activity Logs Download as CSV Insights Feedback

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Access control (IAM)

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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 |
|---------------------------|-----------|----------------|--------------|--------------------|-----------------------------|
| > Restart Virtual Machine | Succeeded | 5 minutes a... | Wed Nov 1... | Azure for Students | InspectorLookalot@anast... |
| > Delete role assignment | Succeeded | 11 minutes ... | Wed Nov 1... | Azure for Students | anastassiadisalex@outloo... |
| > Create role assignment | Succeeded | 12 minutes ... | Wed Nov 1... | Azure for Students | anastassiadisalex@outloo... |
| > Create or Update Disk | Succeeded | 21 minutes ... | Wed Nov 1... | Azure for Students | Managed Disks Resource ... |
| > Create role assignment | Succeeded | 27 minutes ... | Wed Nov 1... | Azure for Students | anastassiadisalex@outloo... |
| > Validate Deployment | Succeeded | 31 minutes ... | Wed Nov 1... | Azure for Students | anastassiadisalex@outloo... |
| > Validate Deployment | Succeeded | 32 minutes ... | Wed Nov 1... | Azure for Students | anastassiadisalex@outloo... |
| > Generate Recommendation | Succeeded | 32 minutes ... | Wed Nov 1... | Azure for Students | anastassiadisalex@outloo... |
| > Generate Recommendation | Succeeded | 33 minutes ... | Wed Nov 1... | Azure for Students | anastassiadisalex@outloo... |
| > Update resource group | Succeeded | 38 minutes ... | Wed Nov 1... | Azure for Students | anastassiadisalex@outloo... |

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