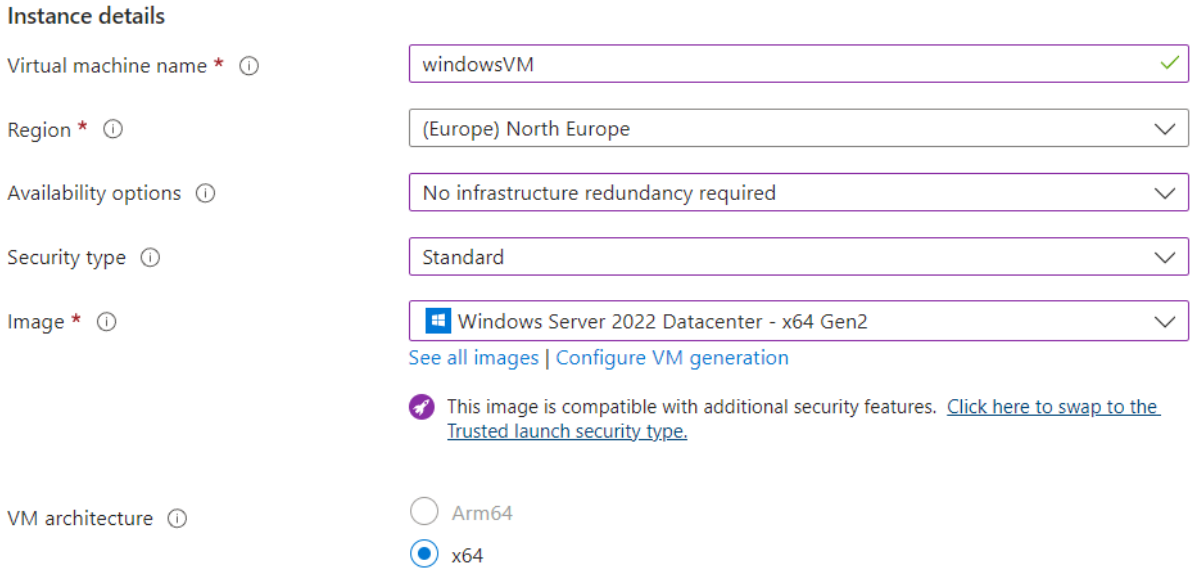
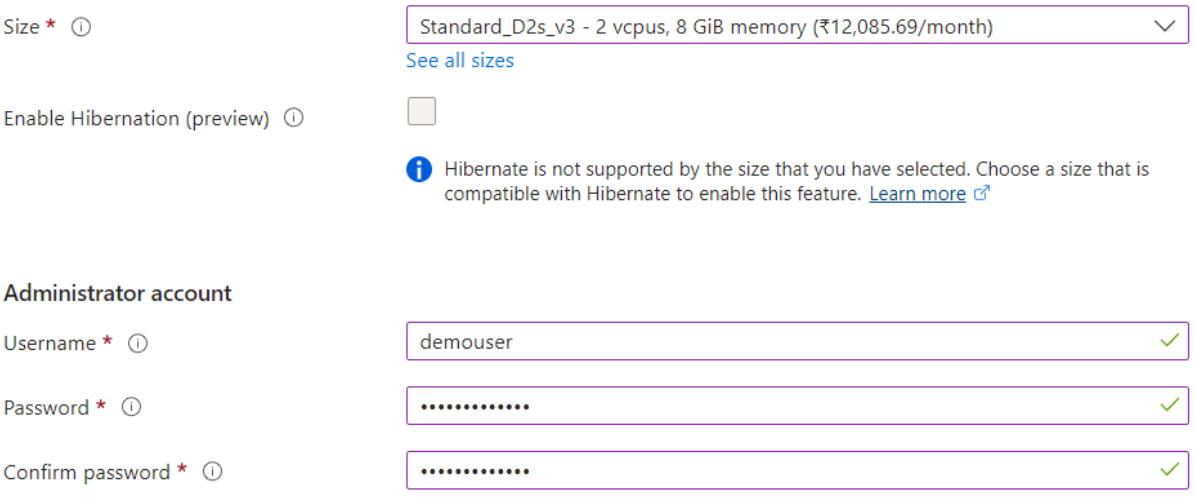
# 😊 Virtual Machine RBAC Roles

**In this process, you're configuring role-based access control (RBAC) for a Windows Virtual Machine (VM) in Azure. The end goal is to manage user access to the VM effectively, ensuring secure connections and proper authentication protocols. By assigning RBAC roles and configuring user accounts, you control who can access and manage the VM, enhancing security and compliance within your Azure environment.**

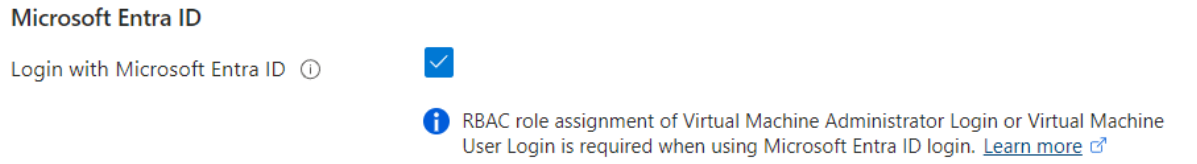
1. In your Azure portal go to Virtual Machine and create a Windows VM.
2. Now choose your resource group then give your VM a name then choose your region then choose your image as shown below.



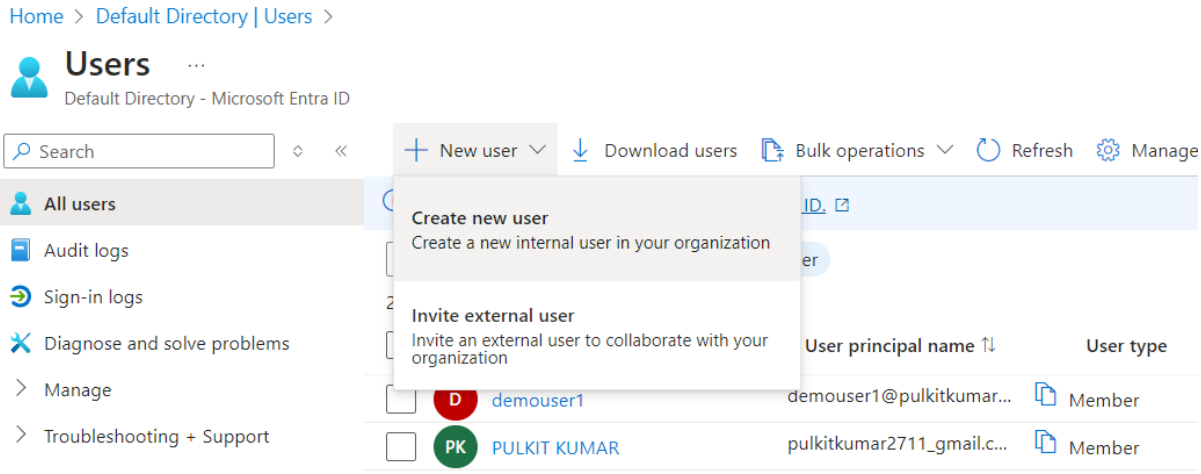

3. After that choose a size of your choice then in the administrator account give it a username and password.



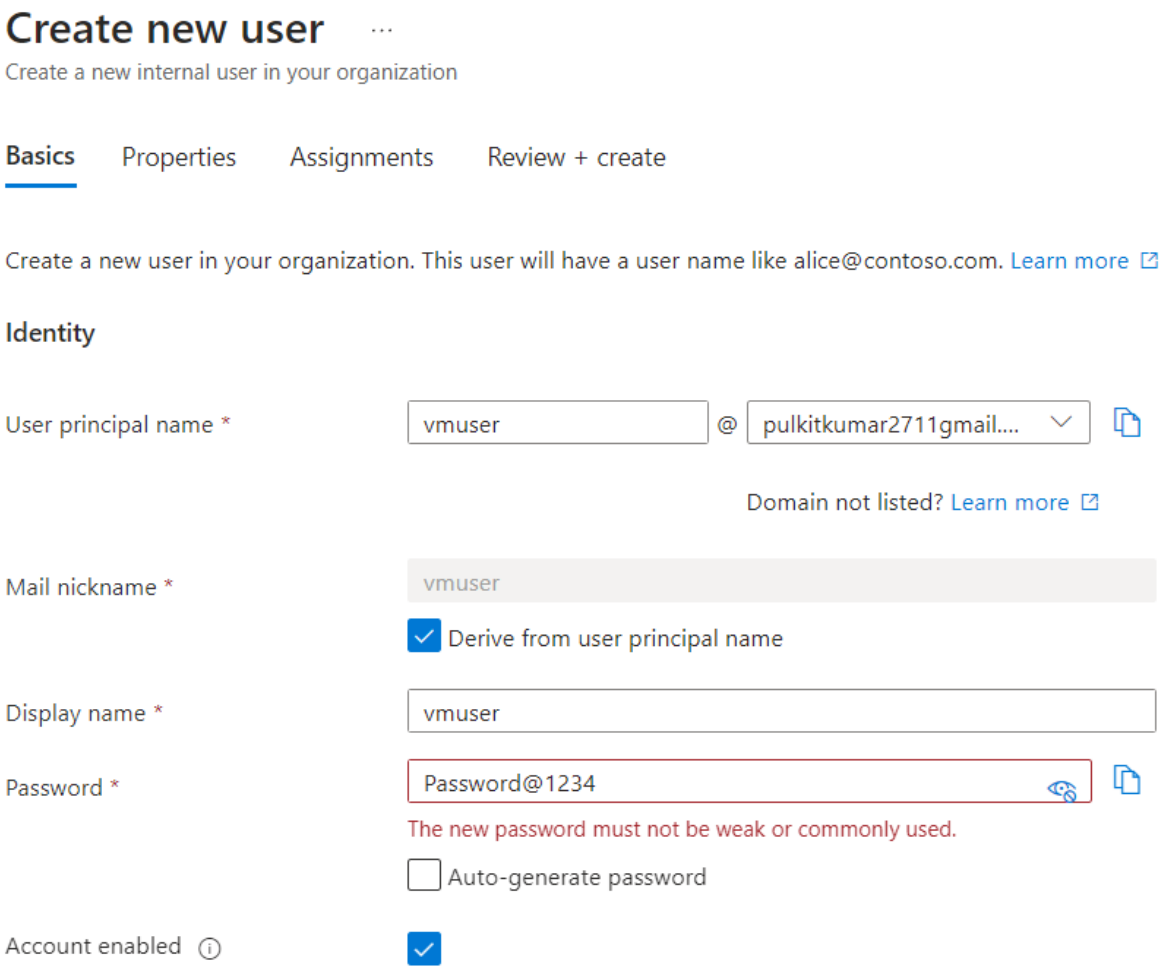

4. After that move to management, you will see this Microsoft Entra ID. You need to enable this option.



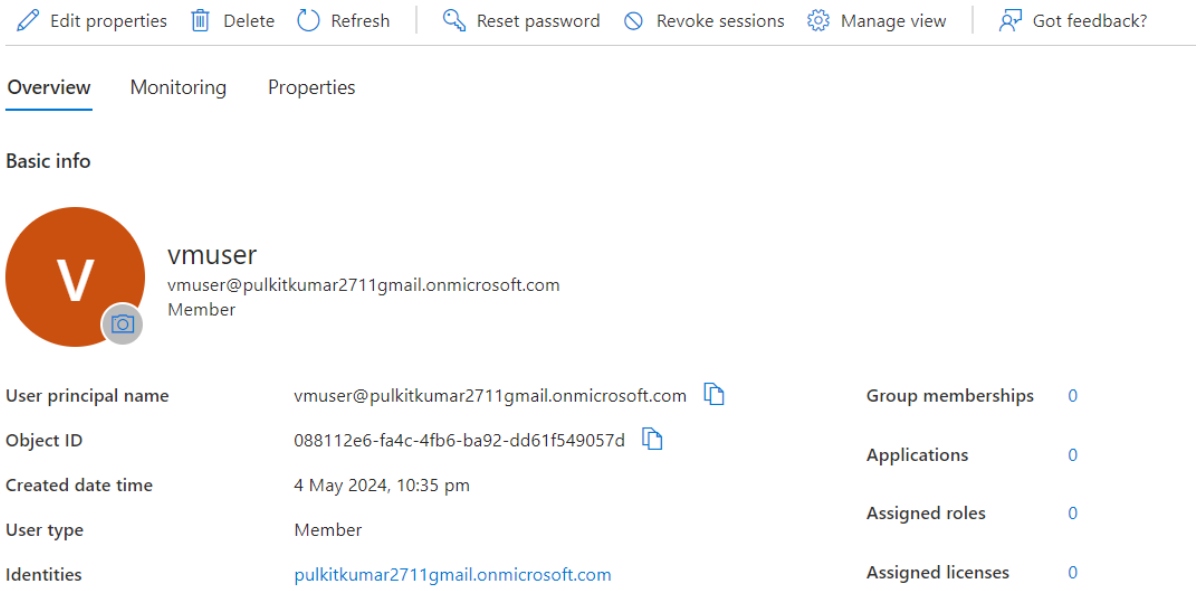

5. Then just move to review page and create your VM.
6. Now navigate to Microsoft Entra ID and create a new user.



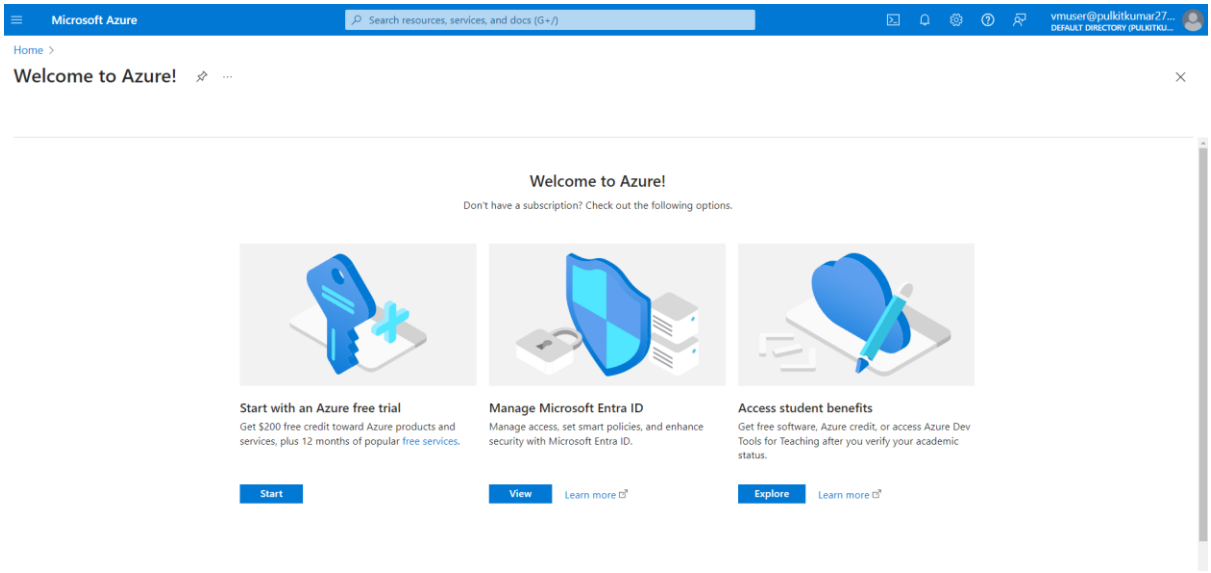

7. Now give it a name then give the password and create your user.



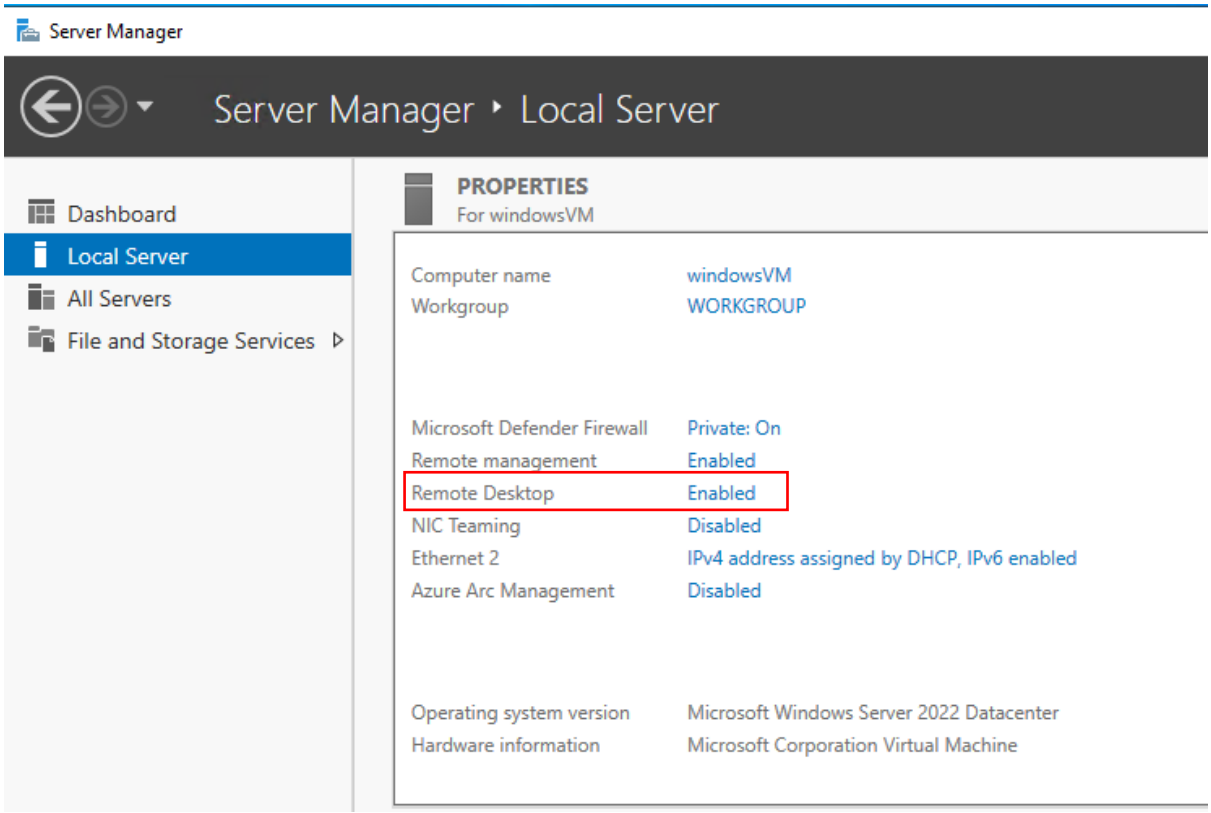

8. Once our user is in place then we need to login with it and change the password.
9. From here you need to copy the user principal name.



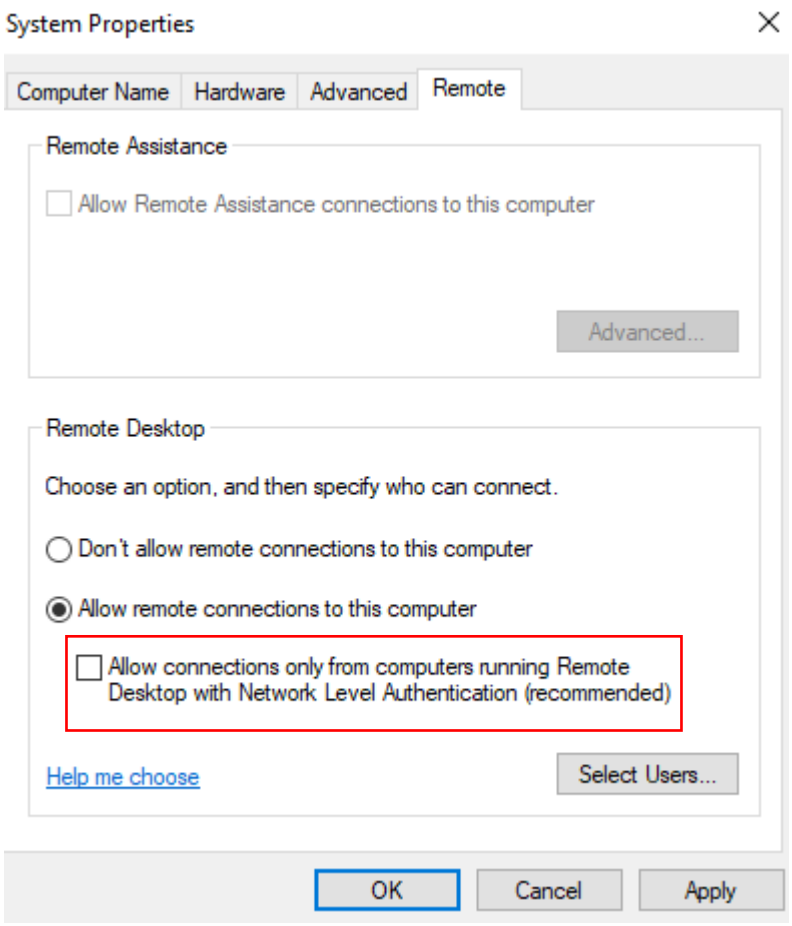
10. Once you have set up your user.



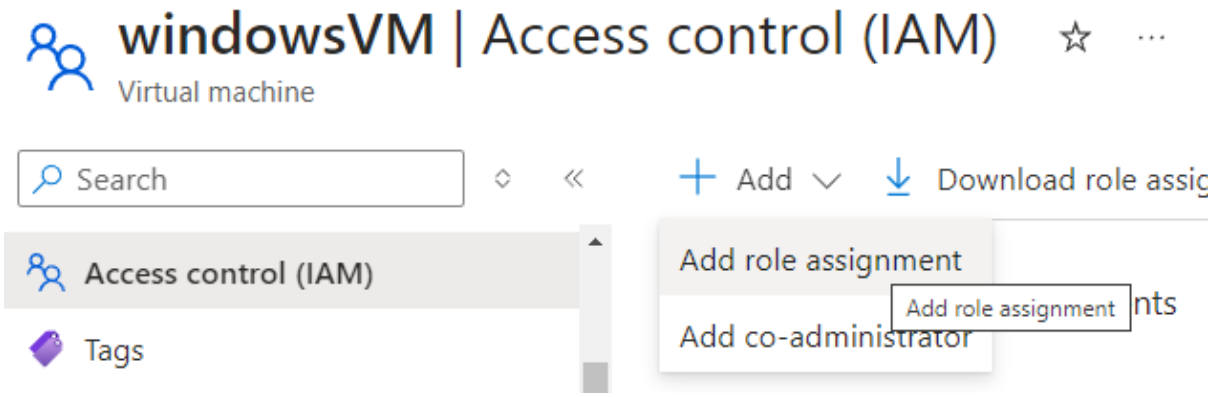

11. Then you are going to connect with your VM using your Azure admin account.
12. To do that you need to download the RDP file and then connect to it.
13. Inside your VM you need to choose the local server in your server manager and click on remote desktop.



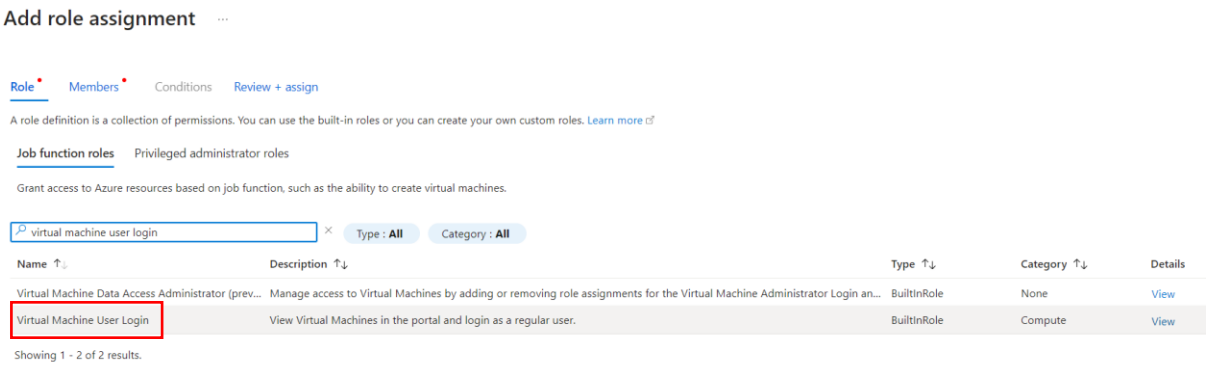

14. Then in the system properties, you need to disable the highlighted option. Then click on apply and OK.
15. Then just close this session.



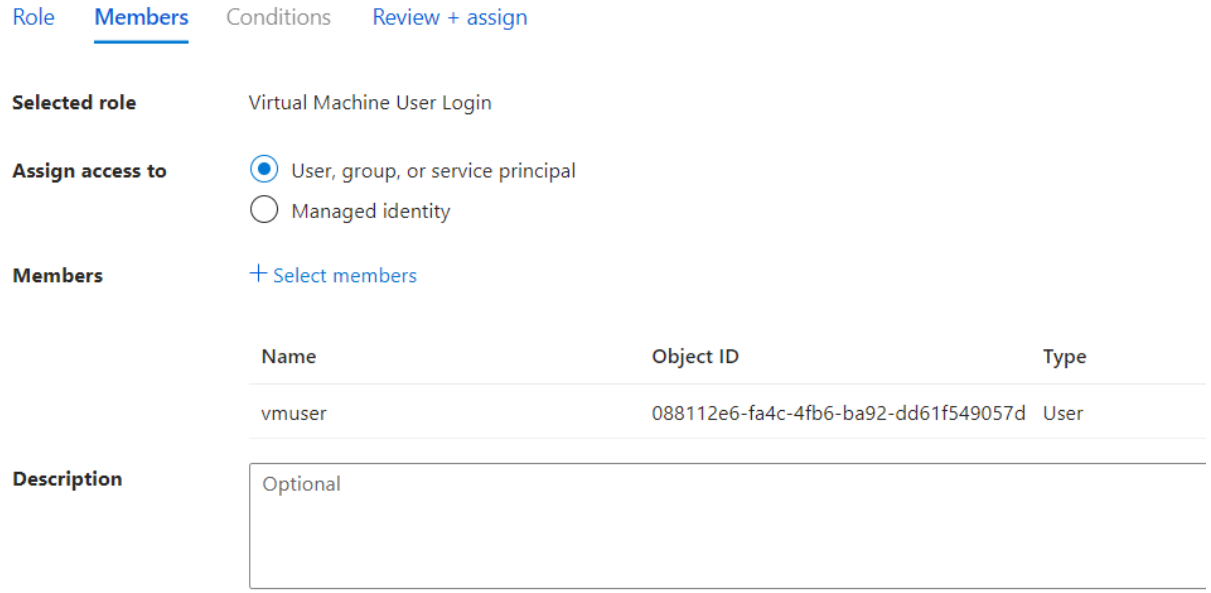

16. Then go to VM and go to IAM and choose to add role assignment.




17. After that you need to choose the same role as shown below which is virtual machine user login.



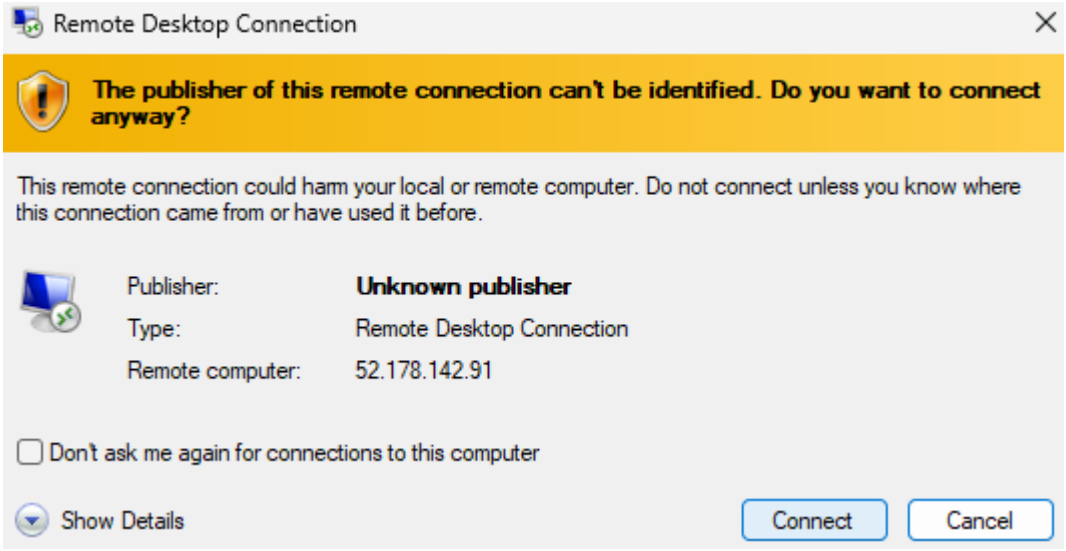

18. This time choose your vmuser for member and then go to review page and assign this role.



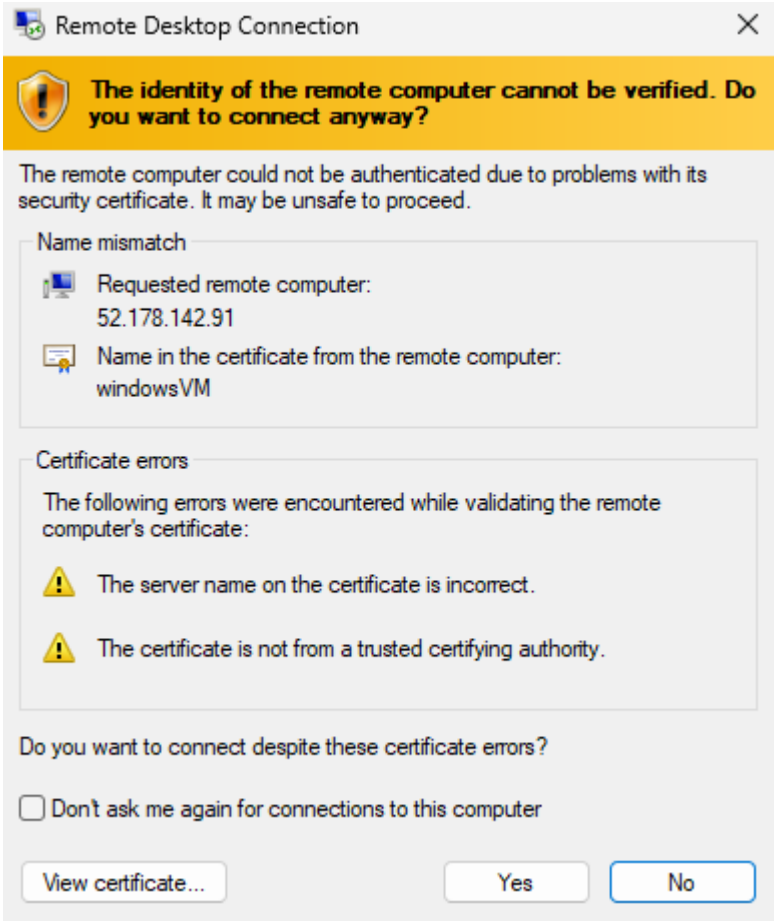

19. Now you need to go where you have stored the RDP file which was downloaded to login to your VM.
20. After that you need to right-click on it then choose open with Notepad. Then you have to add this data in your file. Just keep in mind the IP should be yours and the username should also be yours.
21. Then just save it.

```
full address:s:52.178.142.91:3389
prompt for credentials:i:0
domain:s:AzureAD
enablecredsspsupport:i:0
authentication level:i:2
username:s:\AzureAD\vmuser@pulkitkumar2711gmail.onmicrosoft.com
```

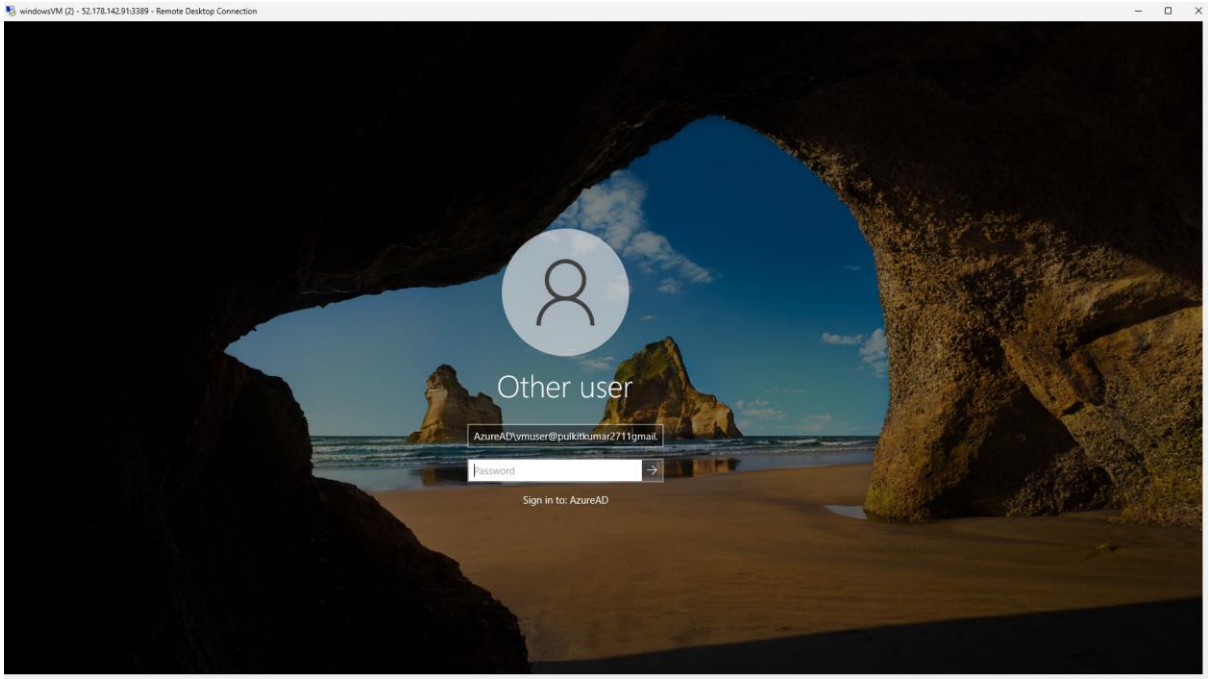
22. After that double click on the file to open. It will ask you to connect.




23. Then you will get this verification message just click on yes.




24. Below you can see that it is asking you to log in as VM user.
25. Just enter your password and login as VM user.




26. Once you are done with the lab delete your resources.