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Assignment 9: Lab - Role-Based Access Control

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Introduction

In this lab scenario, we will demonstrate the capabilities of role-based access as a feature of Microsoft Entra ID's secure identity. We will outline every step taken to achieve these secure identities and access.

Table

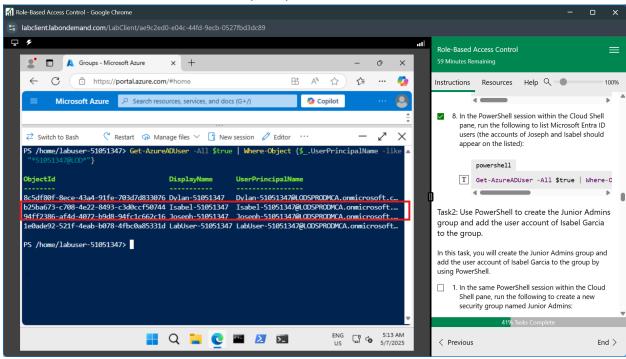
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Creating users and assigning them to groups

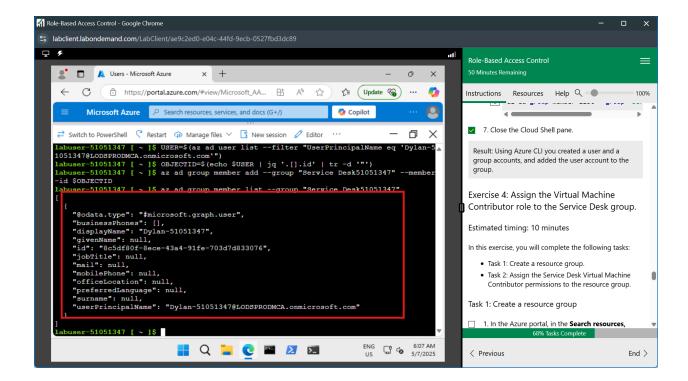
Here, we will create a proof of concept showing how Azure users and groups are created. Also, how role-based access control is used to assign roles to groups.

We can use the Cloud Shell and the Entra ID portal to create the user and group using New-AzureADUser -DisplayName 'Isabel Garcia' -PasswordProfile \$passwordProfile -UserPrincipalName "Isabel@\$domainName" -AccountEnabled \$true -MailNickName 'Isabel'
" command. Using this command, Get-AzureADUser -All \$true | Where-Object {\$.UserPrincipalName -like "*51051347@LOD*"}

We can list the users created under our domain. Also, some variables were created to make the command easier to write, for example, *\$passwordProfile and \$ domainName*

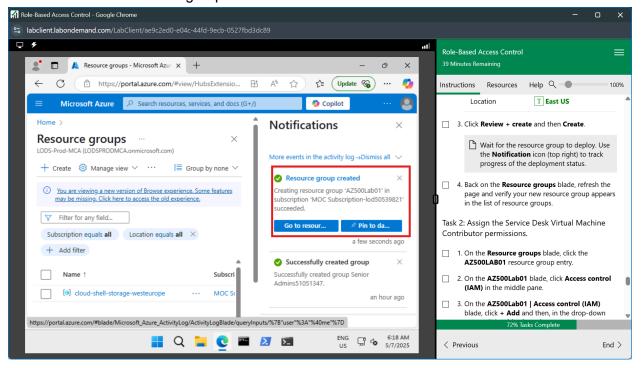


We can also use Azure CLI 'bash' to create users and add them to a group. We created a service desk group and added a user, Dylan, to it. Ash is shown below;

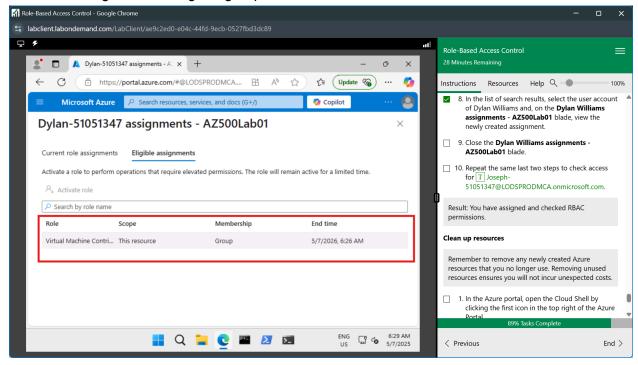


Assign the Virtual Machine Contributor role to the Service Desk group.

We first created a resource group as shown.



We then assigned the role to the service desk group. The user Dylan inherited the permission since he belongs to the assigned group.



Conclusion

To conclude, we have used Microsoft Entra ID to manage Identity by being able to create users, groups, and assign users to groups depending on their roles. As a best practice, we have assigned roles to groups that contain users who require the permissions accompanied in the roles to perform certain task for instance, the VM management role by the service desk group.