

## Practical Task 5: Assign Role-Based Access Control (RBAC) Roles

### Requirements:

- Create a new Azure Active Directory user named testuser@example.com using Azure CLI.
- Assign the Reader role to testuser@example.com for a specific resource group using Azure CLI.
- Use Azure PowerShell to assign the Contributor role to testuser@example.com for a specific storage account.
- Verify that the user has been assigned the correct roles using both CLI and PowerShell.
- Remove the user's role assignments using the respective tools.

## Practical Task 6: Set Up a Scalable Web Server with VM, Storage, and Networking

### Requirements:

#### • Create a Resource Group

- Use Azure CLI to create a resource group named WebServerGroup in the East US region.

Telegram WebStanislav Kostenich - MicrosoftAzure CLI PowerShell in DockerPDF Converter | Convert PDFsportal.azure.com/#view/Microsoft\_AAD\_UsersAndTenants/UserProfileMenuBlade/~/Groups/userId/a6ef082c-f2ff-44cb-8...Microsoft AzureSearch resources, services, and docs (G+/)CopilotStanislavKostenich@dm...DEFAULT DIRECTORY

Switch to BashRestartManage filesNew sessionEditorWeb previewSettingsHelp

```
Description :
ConditionVersion :
Condition :

Assigning Contributor role to StanislavKostenich@dmytroslovtvinskygmail.onmicrosoft.com for Storage Account devrbacstoragecli...
RoleAssignmentName : fb1d7c07-8888-4301-b8fa-1e6992e008ca
RoleAssignmentId : /subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resourceGroups/devRBACResourceGroup/providers/Microsoft.Storage/storageAccounts/devrbacstoragecli/providers/Microsoft.Authorization/roleAssignments/fb1d7c07-8888-4301-b8fa-1e6992e008ca
Scope : /subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resourceGroups/devRBACResourceGroup/providers/Microsoft.Storage/storageAccounts/devrbacstoragecli
DisplayName : Stanislav Kostenich
SignInName : StanislavKostenich@dmytroslovtvinskygmail.onmicrosoft.com
RoleDefinitionName : Contributor
RoleDefinitionId : b24988ac-6180-42a0-ab88-20f7382dd24c
ObjectId : a6ef082c-f2ff-44cb-88d6-57ead467d75e
ObjectType : User
CanDelegate : False
Description :
ConditionVersion :
Condition :

Verifying role assignments for StanislavKostenich@dmytroslovtvinskygmail.onmicrosoft.com...

RoleAssignmentName      RoleAssignmentId
-----
b8adeed5-5198-4100-af43-ed49d98a33ec /subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resourceGroups/Stani...
65433b1e-44fd-4e3e-a593-1f83b316959d /subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resourceGroups/Stani...
9eb7fa6c-78fc-412e-8546-ea0013670211 /subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resourceGroups/Stani...
b459b397-bf28-4eb0-8b0c-f303fe825ef6 /subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resourceGroups/Stani...
dcb546f-0f3e-4036-b652-5a5184f9bb4e /subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resourceGroups/devRBACResourceGroup/providers/Microsoft.Au...
fb1d7c07-8888-4301-b8fa-1e6992e008ca /subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resourceGroups/devRBACResourceGroup/providers/Microsoft.St...

Task Completed Successfully!
PS /home/stanislav>
```



4 notificationsStanislav Kostenich - MicrosoftAzure CLI PowerShell in DockerPDF Converter | Convert PDFsportal.azure.com/#view/Microsoft\_AAD\_UsersAndTenants/UserProfileMenuBlade/~/Groups/userId/a6ef082c-f2ff-44cb-8...Обновить

Microsoft AzureSearch resources, services, and docs (G+)

Copilot

StanislavKostenich@dm...DEFAULT DIRECTORY

Switch to BashRestartManage filesNew sessionEditorWeb previewSettingsHelp

PS /home/stanislav> ./Assign-RBAC-Assign-RBAC-CLI.shAssign-RBAC-PowerShell.ps1  
PS /home/stanislav> ./Assign-RBAC-PowerShell.ps1  
Logging in to Azure...  
WARNING: Interactive authentication is not supported in this session, please run cmdlet 'Connect-AzAccount -UseDeviceAuthentication'.  
Creating resource group: devRBACResourceGroup...  
Checking if user StanislavKostenich@dmytroslotvinskygmail.onmicrosoft.com exists...  
Assigning Reader role to StanislavKostenich@dmytroslotvinskygmail.onmicrosoft.com for devRBACResourceGroup...  
  
RoleAssignmentName : dcbb546f-0f3e-4036-b652-5a5184f9bb4e  
RoleAssignmentId : /subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resourceGroups/devRBACResourceGroup/providers/Microsoft.Authorization/roleAssignments/dcbb546f-0f3e-4036-b652-5a5184f9bb4e  
Scope : /subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resourceGroups/devRBACResourceGroup  
DisplayName : Stanislav Kostenich  
SignInName : StanislavKostenich@dmytroslotvinskygmail.onmicrosoft.com  
RoleDefinitionName : Reader  
RoleDefinitionId : acdd72a7-3385-48ef-bd42-f606fba81ae7  
ObjectId : a6ef082c-f2ff-44cb-88d6-57ead467d75e  
ObjectType : User  
CanDelegate : False  
Description :  
ConditionVersion :  
Condition :  
  
Assigning Contributor role to StanislavKostenich@dmytroslotvinskygmail.onmicrosoft.com for Storage Account devrbacstoragecli...  
RoleAssignmentName : fb1d7c07-8888-4301-b8fa-1e6992e008ca  
RoleAssignmentId : /subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resourceGroups/devRBACResourceGroup/providers/Microsoft.Storage/storageAccounts/devrbacstoragecli/providers/Microsoft.Authorization/roleAssignments/fb1d7c07-8888-4301-b8fa-1e6992e008ca  
Scope : /subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resourceGroups/devRBACResourceGroup/providers/Microsoft.Storage/storageAccounts/devrbacstoragecli  
DisplayName : Stanislav Kostenich  
SignInName : StanislavKostenich@dmytroslotvinskygmail.onmicrosoft.com  
RoleDefinitionName : Contributor  
RoleDefinitionId : b24988ac-6180-42a0-ab88-20f7382dd24c



UpdatedBy	Scope	UpdatedOn
2025-02-06T16:40:05.230165+00:00 ae7e0efd-989d-42f4-bee9-6d81893228f4 a6ef082c-f2ff-44cb-88d6-57ead467d75e User devRBACResourceGroup /subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/providers/Microsoft.Authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c /subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resourceGroups/devRBACResourceGroup/providers/Microsoft.Storage/storageAccounts/devrbacstoragecli a6ef082c-f2ff-44cb-88d6-57ead467d75e 2025-02-06T16:40:05.550160+00:00		
◆ Verifying role assignments for StanislavKostenich@dmytroslotvinskygmail.onmicrosoft.com...		
StanislavKostenich@dmytroslotvinskygmail.onmicrosoft.com	Storage Blob Data Contributor	/subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resou
rceGroups/StanislavKostenich/providers/Microsoft.Storage/storageAccounts/devaccount20250119		
ukrsite_ukr.net#EXT#@dmytroslotvinskygmail.onmicrosoft.com	Storage Blob Data Contributor	/subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resou
rceGroups/StanislavKostenich/providers/Microsoft.Storage/storageAccounts/devaccount20250119		
rceGroups/StanislavKostenich/providers/Microsoft.KeyVault/vaults/devkeyvault20250130	Key Vault Secrets User	/subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resou
StanislavKostenich@dmytroslotvinskygmail.onmicrosoft.com	Key Vault Contributor	/subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resou
rceGroups/StanislavKostenich/providers/Microsoft.KeyVault/vaults/devkeyvault20250130		
StanislavKostenich@dmytroslotvinskygmail.onmicrosoft.com	Key Vault Administrator	/subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resou
rceGroups/StanislavKostenich/providers/Microsoft.KeyVault/vaults/devkeyvault20250130		
ukrsite_ukr.net#EXT#@dmytroslotvinskygmail.onmicrosoft.com	Key Vault Administrator	/subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resou
rceGroups/StanislavKostenich/providers/Microsoft.KeyVault/vaults/devkeyvault20250130		
rceGroups/StanislavKostenich/providers/Microsoft.ContainerRegistry/registries/devregistry20250126	AcrPull	/subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resou
4086af94-e822-46a5-a8c0-b712293e28ca	Contributor	/subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resou
rceGroups/StanislavKostenich		
b8f2cb50-3de3-4c18-a972-dbc92bc768a0	AcrPush	/subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resou
rceGroups/StanislavKostenich/providers/Microsoft.ContainerRegistry/registries/devregistry20250126		
b8f2cb50-3de3-4c18-a972-dbc92bc768a0	AcrPull	/subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resou
rceGroups/StanislavKostenich/providers/Microsoft.ContainerRegistry/registries/devregistry20250126		
StanislavKostenich@dmytroslotvinskygmail.onmicrosoft.com	Virtual Machine Administrator Login	/subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resou
rceGroups/StanislavKostenich/providers/Microsoft.Compute/virtualMachines/devVMLinux		
StanislavKostenich@dmytroslotvinskygmail.onmicrosoft.com	Reader	/subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resou
rceGroups/devRBACResourceGroup		
StanislavKostenich@dmytroslotvinskygmail.onmicrosoft.com	Contributor	/subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resou
rceGroups/devRBACResourceGroup/providers/Microsoft.Storage/storageAccounts/devrbacstoragecli		
◆ Removing role assignments...		
✔ Task Completed Successfully!		
stanislav [ ~ ]\$		



```
◆ Creating resource group: devRBACResourceGroup...
◆ Assigning Reader role to StanislavKostenich@dmtyroslovinskygmail.onmicrosoft.com for devRBACResourceGroup...
CreatedOn      Name      PrincipalId      Scope      PrincipalType      ResourceGroup      RoleDefinitionId      Update
-----
dBy      UpdatedOn
-----
2025-02-06T16:39:58.127467+00:00  5a26807c-863f-4d36-8a51-927518589d48  a6ef082c-f2ff-44cb-88d6-57ead467d75e  User      devRBACResourceGroup  /subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/providers/Microsoft.Authorization/roleDefinitions/acdd72a7-3385-48ef-bd42-f606fba81ae7  /subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resourceGroups/devRBACResourceGroup  a6ef082c-f2ff-44cb-88d6-57ead467d75e  2025-02-06T16:39:58.631466+00:00
◆ Assigning Contributor role to StanislavKostenich@dmtyroslovinskygmail.onmicrosoft.com for devrbacstoragecli...
CreatedOn      Name      PrincipalId      Scope      PrincipalType      ResourceGroup      RoleDefinitionId      Update
-----
UpdatedBy      UpdatedOn
-----
2025-02-06T16:40:05.230165+00:00  ae7e0efd-989d-42f4-bee9-6d81893228f4  a6ef082c-f2ff-44cb-88d6-57ead467d75e  User      devRBACResourceGroup  /subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/providers/Microsoft.Storage/storageAccounts/devrbacstoragecli  a6ef082c-f2ff-44cb-88d6-57ead467d75e  2025-02-06T16:40:05.550160+00:00
◆ Verifying role assignments for StanislavKostenich@dmtyroslovinskygmail.onmicrosoft.com...

StanislavKostenich@dmtyroslovinskygmail.onmicrosoft.com  Storage Blob Data Contributor  /subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resou
rceGroups/Stani
slavKostenich/pro
viders/Microsoft.Storage/storageAccounts/devaccount20250119
ukrsite_ukr.net#EXT#@dmtyroslovinskygmail.onmicrosoft.com  Storage Blob Data Contributor  /subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resou
rceGroups/Stani
slavKostenich/pro
viders/Microsoft.Storage/storageAccounts/devaccount20250119
Key Vault Secrets User  /subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resou
rceGroups/Stani
slavKostenich/pro
viders/Microsoft.KeyVault/vaults/devkeyvault20250130
StanislavKostenich@dmtyroslovinskygmail.onmicrosoft.com  Key Vault Contributor  /subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resou
rceGroups/Stani
slavKostenich/pro
viders/Microsoft.KeyVault/vaults/devkeyvault20250130
StanislavKostenich@dmtyroslovinskygmail.onmicrosoft.com  Key Vault Administrator  /subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resou
rceGroups/Stani
slavKostenich/pro
viders/Microsoft.KeyVault/vaults/devkeyvault20250130
ukrsite_ukr.net#EXT#@dmtyroslovinskygmail.onmicrosoft.com  Key Vault Administrator  /subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resou
rceGroups/Stani
slavKostenich/pro
viders/Microsoft.KeyVault/vaults/devkeyvault20250130
AcrPull  /subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resou
rceGroups/Stani
slavKostenich/pro
viders/Microsoft.ContainerRegistry/registries/devregistry20250126
4086af94-e822-46a5-a8c0-b712293e28ca  Contributor  /subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resou
```