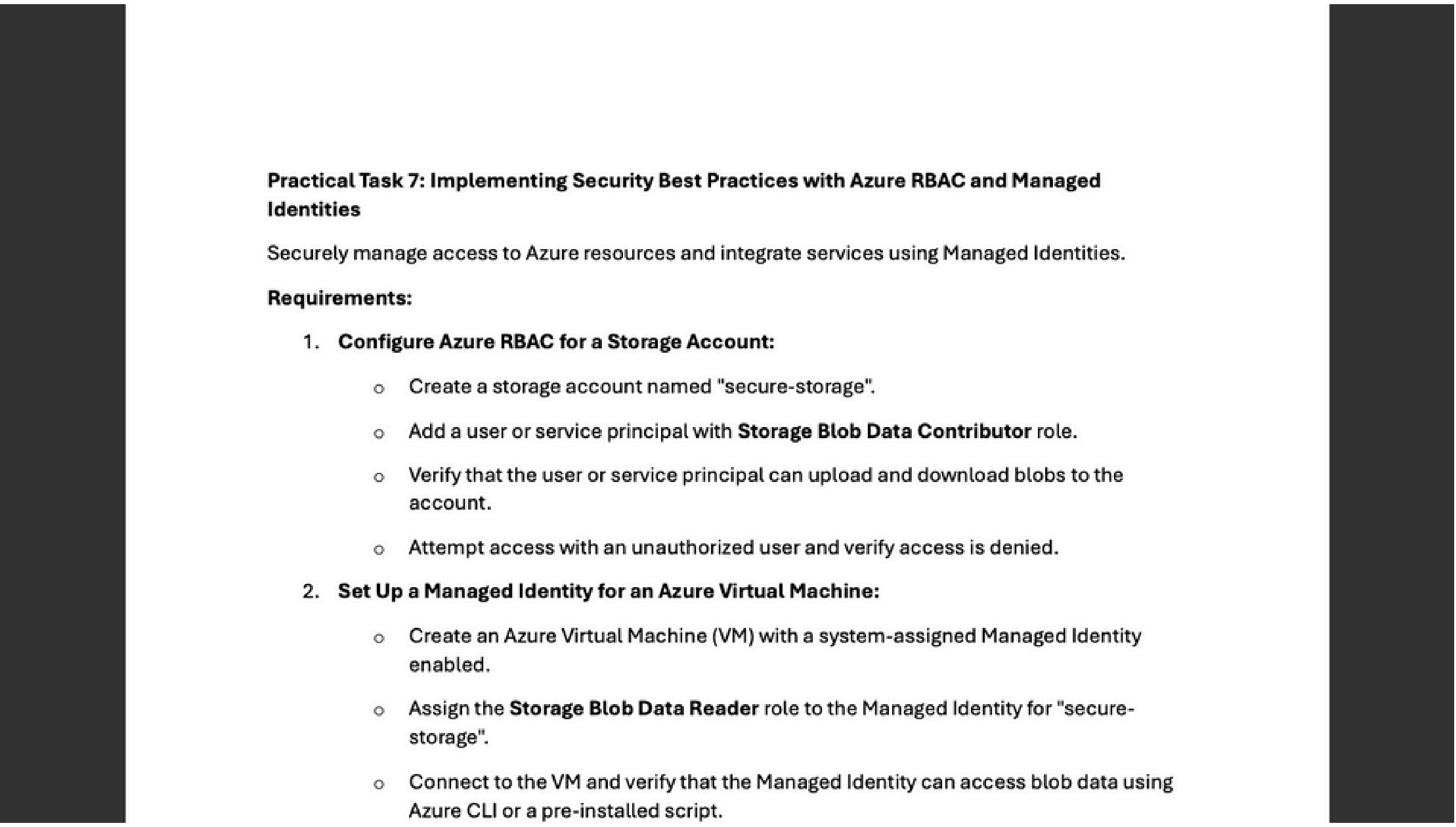
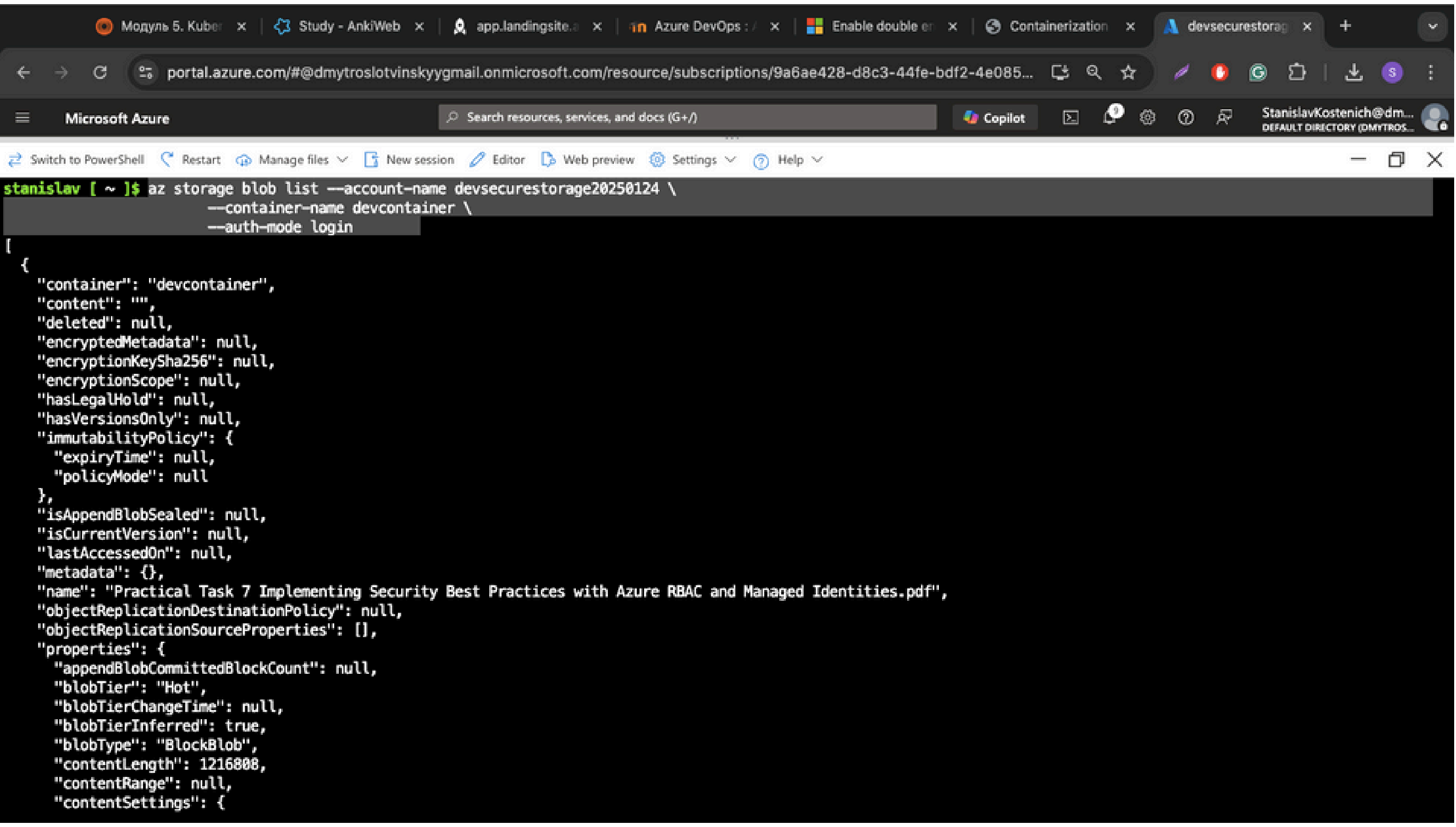


Practical Task 7: Implementing Security Best Practices with Azure RBAC and Managed Identities

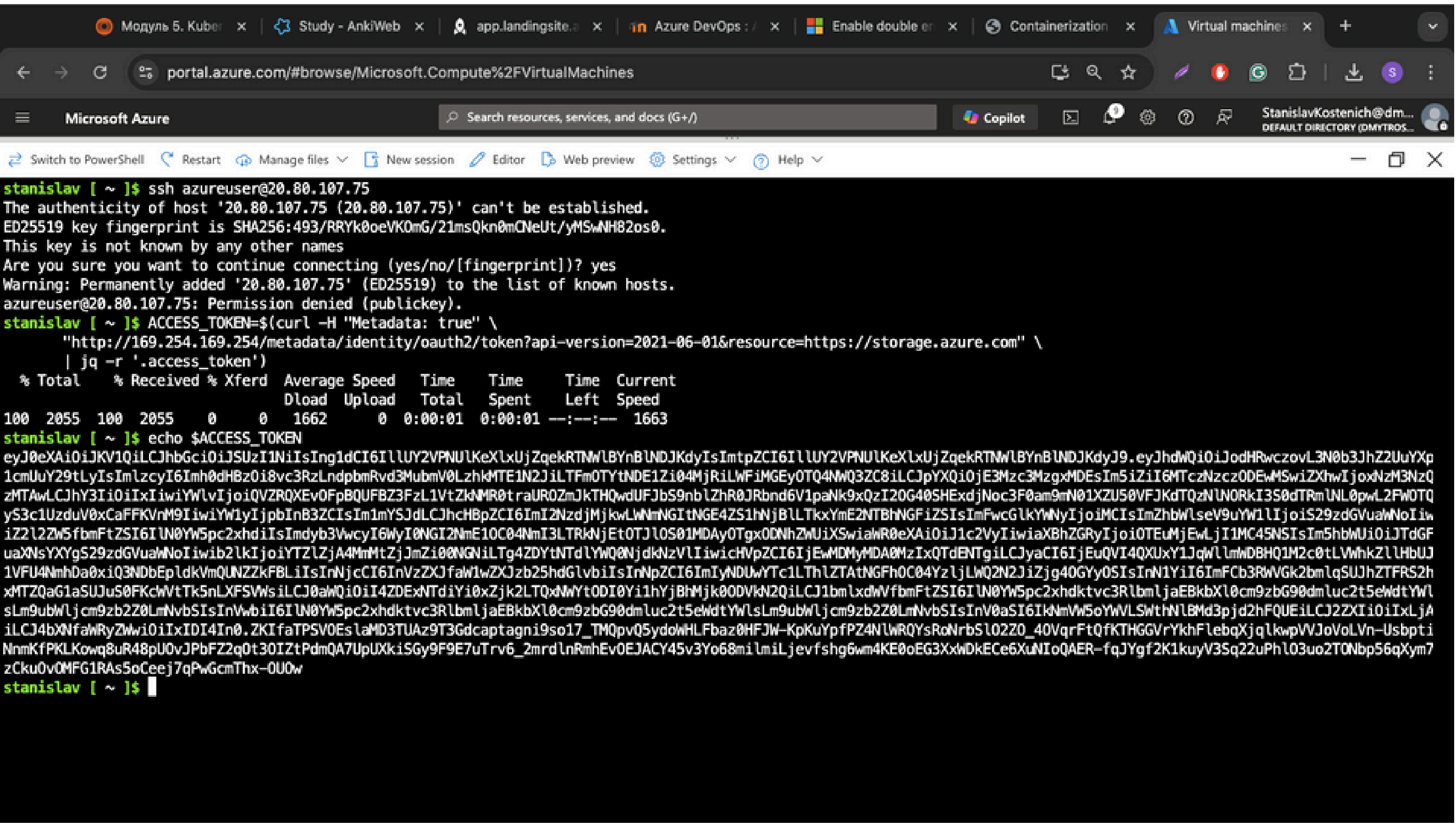
Securely manage access to Azure resources and integrate services using Managed Identities.

Requirements:

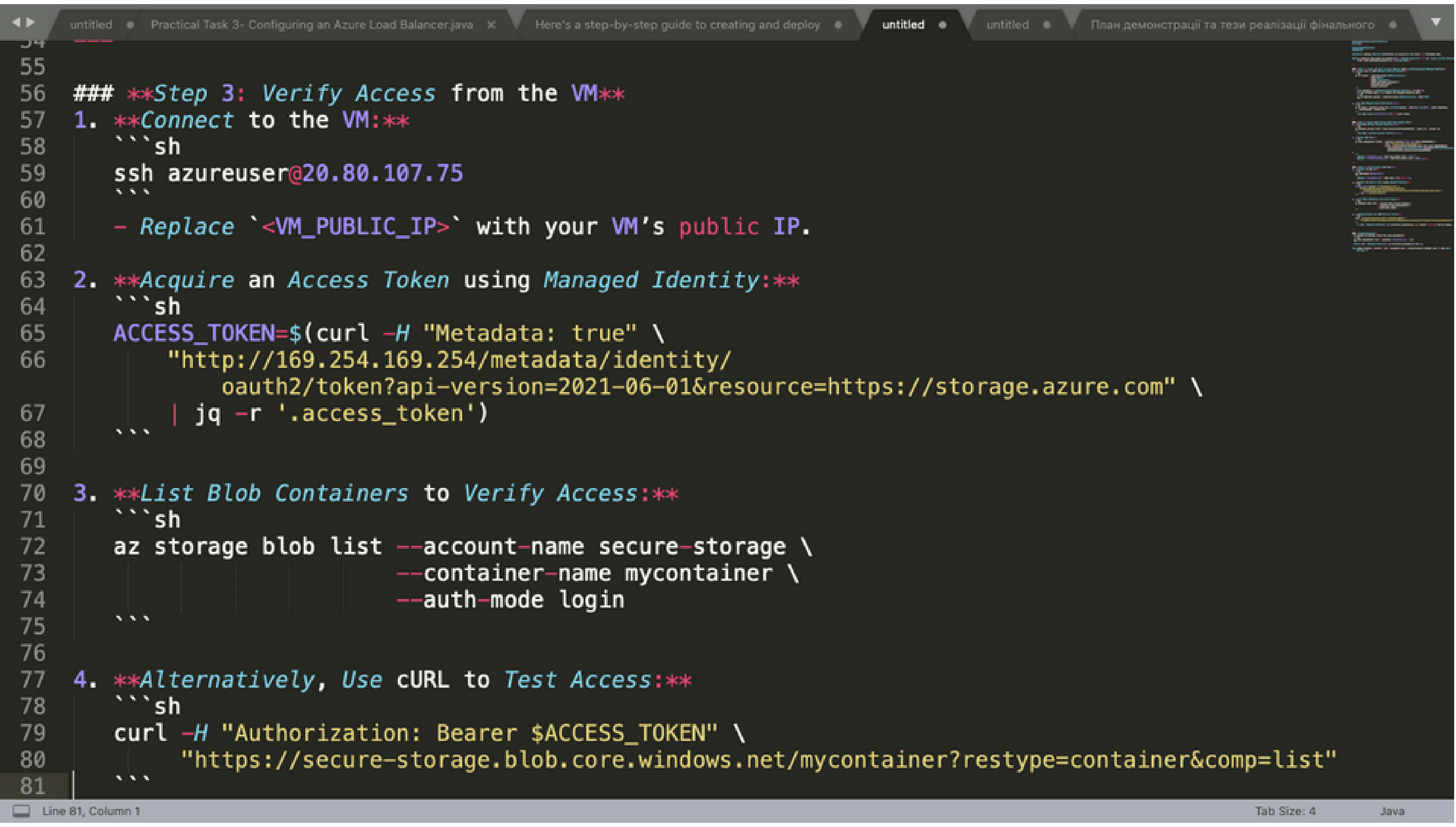
1. **Configure Azure RBAC for a Storage Account:**
   - Create a storage account named "secure-storage".
   - Add a user or service principal with **Storage Blob Data Contributor** role.
   - Verify that the user or service principal can upload and download blobs to the account.
   - Attempt access with an unauthorized user and verify access is denied.
2. **Set Up a Managed Identity for an Azure Virtual Machine:**
   - Create an Azure Virtual Machine (VM) with a system-assigned Managed Identity enabled.
   - Assign the **Storage Blob Data Reader** role to the Managed Identity for "secure-storage".
   - Connect to the VM and verify that the Managed Identity can access blob data using Azure CLI or a pre-installed script.



```
stanislav [ ~ ]$ az storage blob list --account-name devsecurestorage20250124 \
                  --container-name devcontainer \
                  --auth-mode login
[
  {
    "container": "devcontainer",
    "content": "",
    "deleted": null,
    "encryptedMetadata": null,
    "encryptionKeySha256": null,
    "encryptionScope": null,
    "hasLegalHold": null,
    "hasVersionsOnly": null,
    "immutabilityPolicy": {
      "expiryTime": null,
      "policyMode": null
    },
    "isAppendBlobSealed": null,
    "isCurrentVersion": null,
    "lastAccessedOn": null,
    "metadata": {},
    "name": "Practical Task 7 Implementing Security Best Practices with Azure RBAC and Managed Identities.pdf",
    "objectReplicationDestinationPolicy": null,
    "objectReplicationSourceProperties": [],
    "properties": {
      "appendBlobCommittedBlockCount": null,
      "blobTier": "Hot",
      "blobTierChangeTime": null,
      "blobTierInferred": true,
      "blobType": "BlockBlob",
      "contentLength": 1216808,
      "contentRange": null,
      "contentSettings": {
```



```
stanislav [ ~ ]$ ssh azureuser@20.80.107.75
The authenticity of host '20.80.107.75 (20.80.107.75)' can't be established.
ED25519 key fingerprint is SHA256:493/RRYk0oeVKOmG/21msQkn0mCNeUt/yMSwNH82os0.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '20.80.107.75' (ED25519) to the list of known hosts.
azureuser@20.80.107.75: Permission denied (publickey).
stanislav [ ~ ]$ ACCESS_TOKEN=$(curl -H "Metadata: true" \
       "http://169.254.169.254/metadata/identity/oauth2/token?api-version=2021-06-01&resource=https://storage.azure.com" \
       | jq -r '.access_token')
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100  2055  100  2055    0     0   1662      0  0:00:01  0:00:01 --:--:--  1663
stanislav [ ~ ]$ echo $ACCESS_TOKEN
eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiIsIng1dCI6IllUY2VPNUlKeXlxUjZqekRTNWlBYnBlNDJKdyIsImtpZCI6IllUY2VPNUlKeXlxUjZqekRTNWlBYnBlNDJKdyJ9.eyJhdWQiOiJodHRwczovL3N0b3JhZ2UuYXp
1cmUuY29tLyIsImlzcyI6Imh0dHBzOi8vc3RzLndpbmRvd3MubmV0LzhkMTE1N2JiLTFmOTYtNDE1Zi04MjRiLWFiMGEyOTQ4NWQ3ZC8iLCJpYXQiOjE3Mzc3MzgxMDEsIm5iZiI6MTczNzczODEwMSwiZXhwIjoxNzM3NzQ
zMTAwLCJhY3IiOiIxIiwiYWlvIjoiQVZRQXEvOFpBQUFBZ3FzL1VtZkNMR0traUROZmJkTHQwdUFJbS9nblZhR0JRbnd6V1paNk9xQzI2OG40SHExdjNoc3F0am9mN01XZU50VFJKdTQzNlNORkI3S0dTRmlNL0pwL2FWOTQ
yS3c1UzduV0xCaFFKVnM9IiwiYW1yIjpbInB3ZCIsIm1mYSJdLCJhcHBpZCI6ImI2NzdjMjkwLWNmNGItNGE4ZS1hNjBlLTkxYmE2NTBhNGFiZSIsImFwcGlkYWNyIjoiMCIsImZhbWlseV9uYW1lIjoiS29zdGVuaWNoIiw
iZ2l2ZW5fbmFtZSI6IlN0YW5pc2xhdiIsImdyb3VwcyI6WyI0NGI2NmE1OC04NmI3LTRkNjEtOTJlOS01MDAyOTgxODNhZWUiXSwiaWR0eXAiOiJ1c2VyIiwiaXBhZGRyIjoiOTEuMjEwLjI1MC45NSIsIm5hbWUiOiJTdGF
uaXNsYXYgS29zdGVuaWNoIiwib2lkIjoiYTZlZjA4MmMtZjJmZi00NGNiLTg4ZDYtNTdlYWQ0NjdkNzVlIiwicHVpZCI6IjEwMDMyMDA0MzIxQTdENTgiLCJyaCI6IjEuQVI4QXUxY1JqWllmWDBHQ1M2c0tLVWhkZllHbUJ
1VFU4NmhDa0xiQ3NDbEpldkVmQUNZZkFBLiIsInNjcCI6InVzZXJfaW1wZXJzb25hdGlvbiIsInNpZCI6ImIyNDUwYTc1LThlZTAtNGFhOC04YzljLWQ2N2JiZjg4OGYyOSIsInN1YiI6ImFCb3RWVGk2bmlqSUJhZTFRS2h
xMTZQaG1aSUJuS0FKcWVtTk5nLXFSVWsiLCJ0aWQiOiI4ZDExNTdiYi0xZjk2LTQxNWYtODI0Yi1hYjBhMjk0ODVkN2QiLCJ1bmlxdWVfbmFtZSI6IlN0YW5pc2xhdktvc3RlbmljaEBkbXl0cm9zbG90dmluc2t5eWdtYWl
sLm9ubWljcm9zb2Z0LmNvbSIsInVwbiI6IlN0YW5pc2xhdktvc3RlbmljaEBkbXl0cm9zbG90dmluc2t5eWdtYWlsLm9ubWljcm9zb2Z0LmNvbSIsInV0aSI6IkNmVW5oYWVLSWthNlBMd3pjd2hFQUEiLCJ2ZXIiOiIxLjA
iLCJ4bXNfaWRyZWwiOiIxIDI4In0.ZKIfaTPSVOEslaMD3TUAz9T3Gdcaptagni9so17_TMQpvQ5ydoWHLFbaz0HFJW-KpKuYpfPZ4NlWRQYsRoNrbSl02ZO_4OVqrFtQfKTHGGVrYkhFlebqXjqlkwpVVJoVoLVn-Usbpti
NnmKfPKLKowq8uR48pUOvJPbFZ2qOt3OIZtPdmQA7UpUXkiSGy9F9E7uTrv6_2mrdlnRmhEvOEJACY45v3Yo68milmiLjevfshg6wm4KE0oEG3XxWDkECe6XuNIoQAER-fqJYgf2K1kuyV3Sq22uPhlO3uo2TONbp56qXym7
zCkuOvOMFG1RAs5oCeej7qPwGcmThx-OUOw
stanislav [ ~ ]$
```


untitled
Practical Task 3- Configuring an Azure Load Balancer.java
Here's a step-by-step guide to creating and deploy
untitled
untitled
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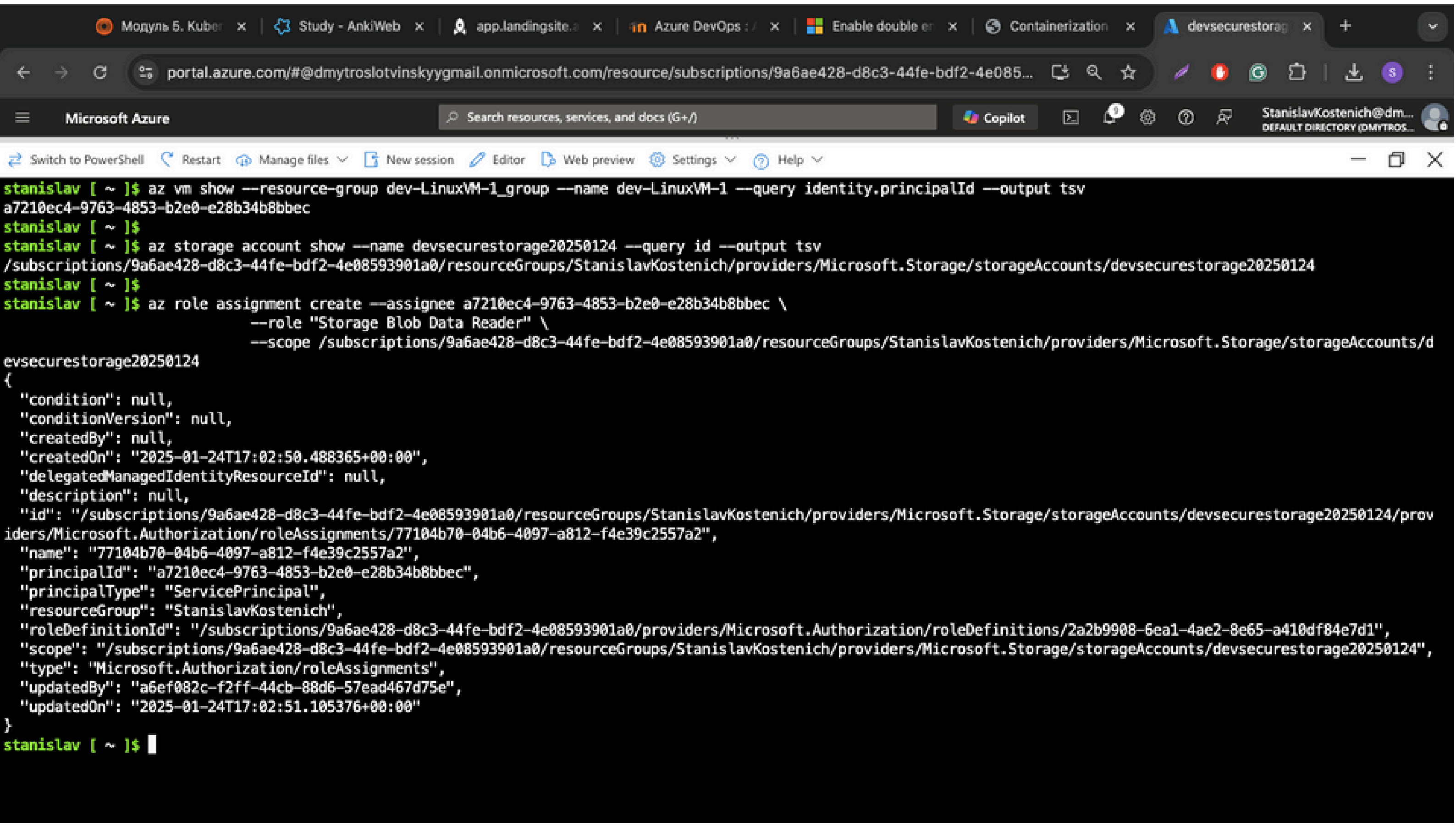
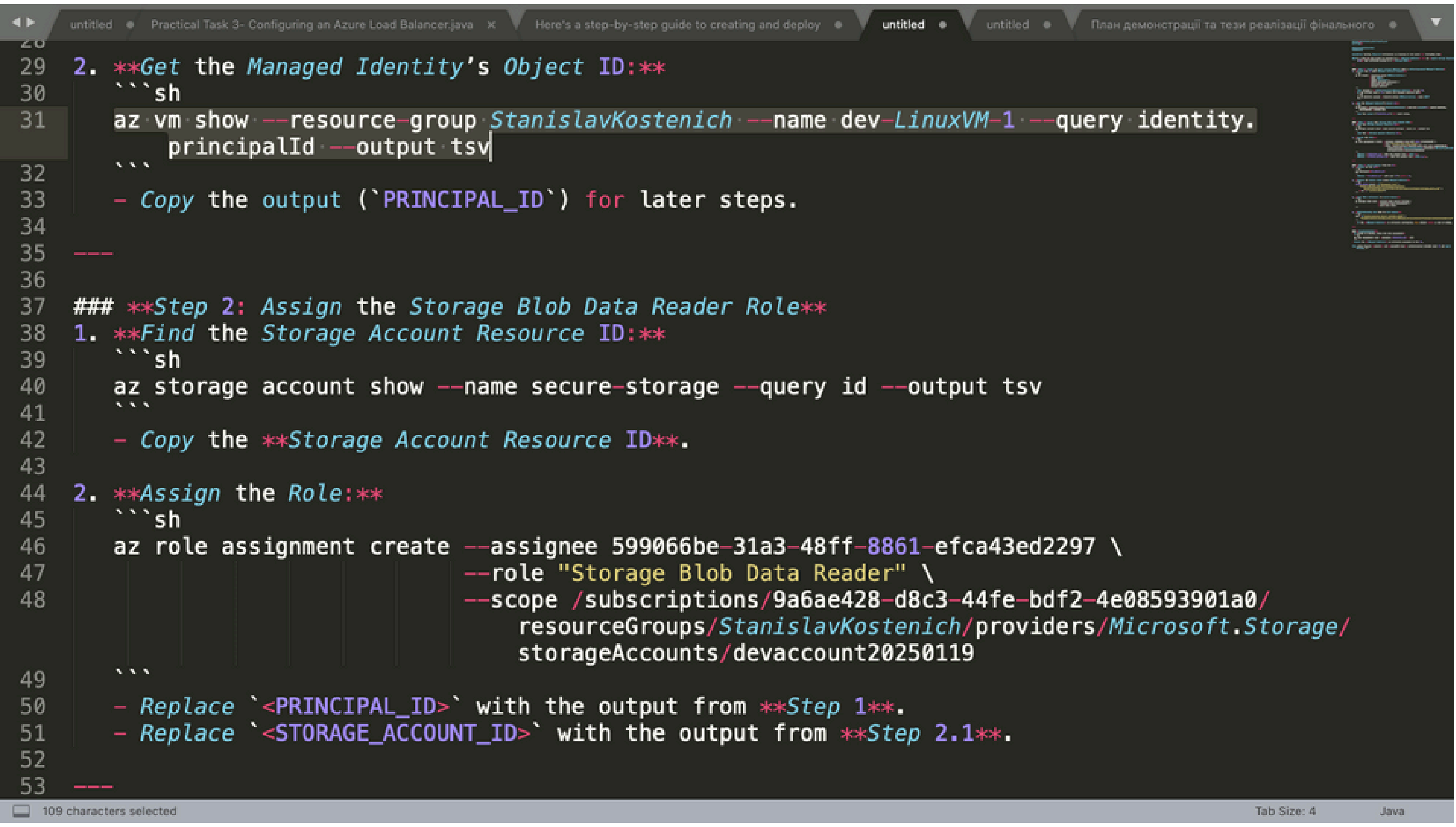
Line 81, Column 1
Tab Size: 4
Java

~~~
### **Step 3: Verify Access from the VM**
1. **Connect to the VM:**
   ```sh
   ssh azureuser@20.80.107.75
   ```
   - Replace `<VM_PUBLIC_IP>` with your VM’s public IP.

2. **Acquire an Access Token using Managed Identity:**
   ```sh
   ACCESS_TOKEN=$(curl -H "Metadata: true" \
       "http://169.254.169.254/metadata/identity/oauth2/token?api-version=2021-06-01&resource=https://storage.azure.com" \
       | jq -r '.access_token')
   ```

3. **List Blob Containers to Verify Access:**
   ```sh
   az storage blob list --account-name secure-storage \
                        --container-name mycontainer \
                        --auth-mode login
   ```

4. **Alternatively, Use cURL to Test Access:**
   ```sh
   curl -H "Authorization: Bearer $ACCESS_TOKEN" \
        "https://secure-storage.blob.core.windows.net/mycontainer?restype=container&comp=list"
   ```
~~~



```
stanislav [ ~ ]$ az vm show --resource-group dev-LinuxVM-1_group --name dev-LinuxVM-1 --query identity.principalId --output tsv
a7210ec4-9763-4853-b2e0-e28b34b8bbec
stanislav [ ~ ]$
stanislav [ ~ ]$ az storage account show --name devsecurestorage20250124 --query id --output tsv
/subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resourceGroups/StanislavKostenich/providers/Microsoft.Storage/storageAccounts/devsecurestorage20250124
stanislav [ ~ ]$
stanislav [ ~ ]$ az role assignment create --assignee a7210ec4-9763-4853-b2e0-e28b34b8bbec \
                          --role "Storage Blob Data Reader" \
                          --scope /subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resourceGroups/StanislavKostenich/providers/Microsoft.Storage/storageAccounts/d
evsecurestorage20250124
{
  "condition": null,
  "conditionVersion": null,
  "createdBy": null,
  "createdOn": "2025-01-24T17:02:50.488365+00:00",
  "delegatedManagedIdentityResourceId": null,
  "description": null,
  "id": "/subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resourceGroups/StanislavKostenich/providers/Microsoft.Storage/storageAccounts/devsecurestorage20250124/prov
iders/Microsoft.Authorization/roleAssignments/77104b70-04b6-4097-a812-f4e39c2557a2",
  "name": "77104b70-04b6-4097-a812-f4e39c2557a2",
  "principalId": "a7210ec4-9763-4853-b2e0-e28b34b8bbec",
  "principalType": "ServicePrincipal",
  "resourceGroup": "StanislavKostenich",
  "roleDefinitionId": "/subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/providers/Microsoft.Authorization/roleDefinitions/2a2b9908-6ea1-4ae2-8e65-a410df84e7d1",
  "scope": "/subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resourceGroups/StanislavKostenich/providers/Microsoft.Storage/storageAccounts/devsecurestorage20250124",
  "type": "Microsoft.Authorization/roleAssignments",
  "updatedBy": "a6ef082c-f2ff-44cb-88d6-57ead467d75e",
  "updatedOn": "2025-01-24T17:02:51.105376+00:00"
}
stanislav [ ~ ]$ 
```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untitled
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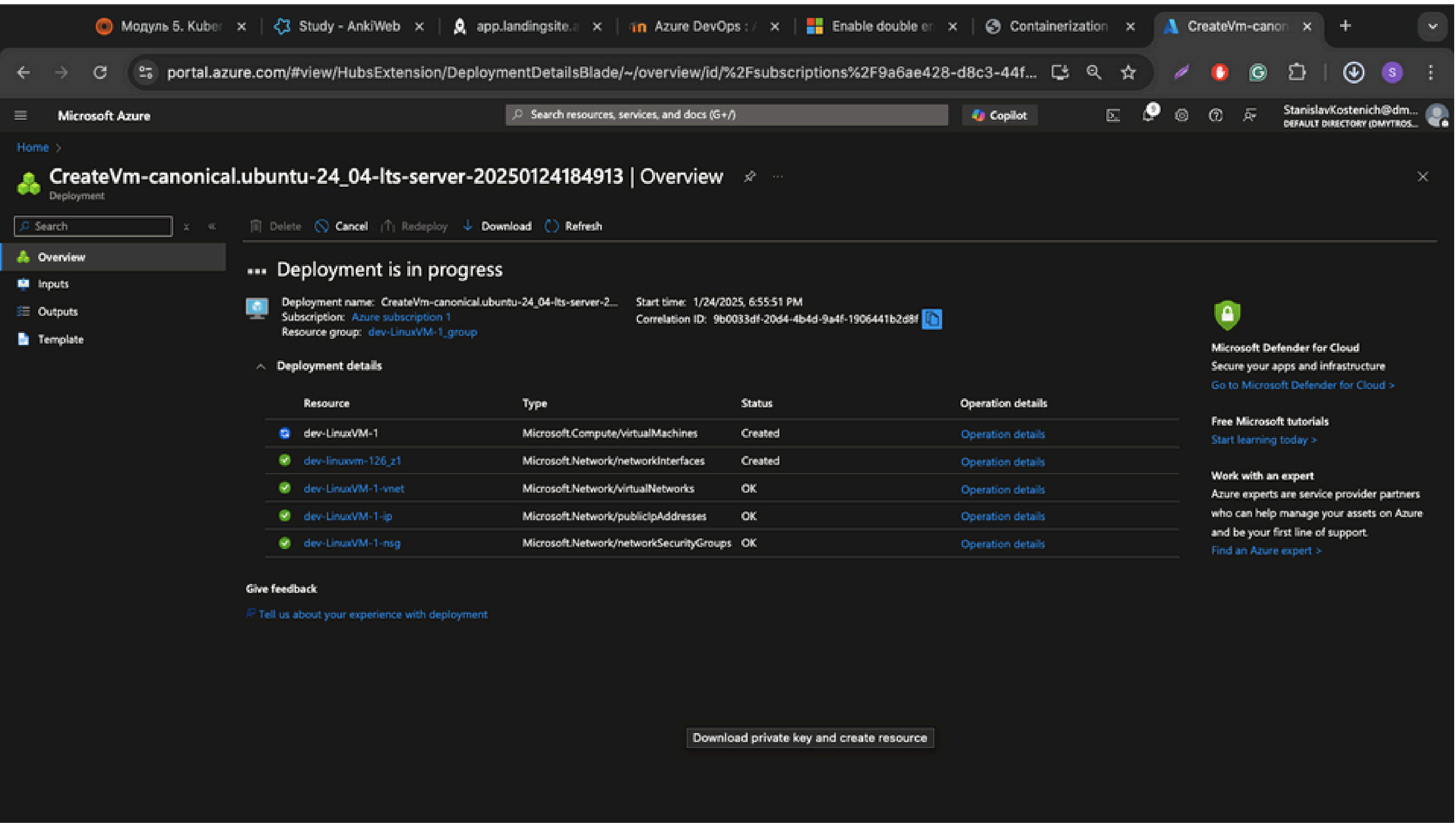
109 characters selected
Tab Size: 4
Java

~~~
2. **Get the Managed Identity's Object ID:**
   ```sh
   az vm show --resource-group StanislavKostenich --name dev-LinuxVM-1 --query identity.principalId --output tsv
   ~~~
   - Copy the output (`PRINCIPAL_ID`) for later steps.

Step 2: Assign the Storage Blob Data Reader Role
1. **Find the Storage Account Resource ID:**
   ```sh
   az storage account show --name secure-storage --query id --output tsv
   ```
   - Copy the **Storage Account Resource ID**.

2. **Assign the Role:**
   ```sh
   az role assignment create --assignee 599066be-31a3-48ff-8861-efca43ed2297 \
                             --role "Storage Blob Data Reader" \
                             --scope /subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resourceGroups/StanislavKostenich/providers/Microsoft.Storage/storageAccounts/devaccount20250119
   ```
   - Replace `<PRINCIPAL_ID>` with the output from **Step 1**.
   - Replace `<STORAGE_ACCOUNT_ID>` with the output from **Step 2.1**.

```
```



CreateVm-canonical.ubuntu-24_04-lts-server-20250124184913 | Overview

Deployment is in progress

Deployment name: CreateVm-canonical.ubuntu-24_04-lts-server-2...
Subscription: Azure subscription 1
Resource group: dev-LinuxVM-1_group

Start time: 1/24/2025, 6:55:51 PM
Correlation ID: 9b0033df-20d4-4b4d-9a4f-1906441b2d8f

Deployment details

	Resource	Type	Status	Operation details
	dev-LinuxVM-1	Microsoft.Compute/virtualMachines	Created	Operation details
✓	dev-linuxvm-126_z1	Microsoft.Network/networkInterfaces	Created	Operation details
✓	dev-LinuxVM-1-vnet	Microsoft.Network/virtualNetworks	OK	Operation details
✓	dev-LinuxVM-1-ip	Microsoft.Network/publicIpAddresses	OK	Operation details
✓	dev-LinuxVM-1-nsg	Microsoft.Network/networkSecurityGroups	OK	Operation details

Give feedback

Tell us about your experience with deployment

Microsoft Defender for Cloud
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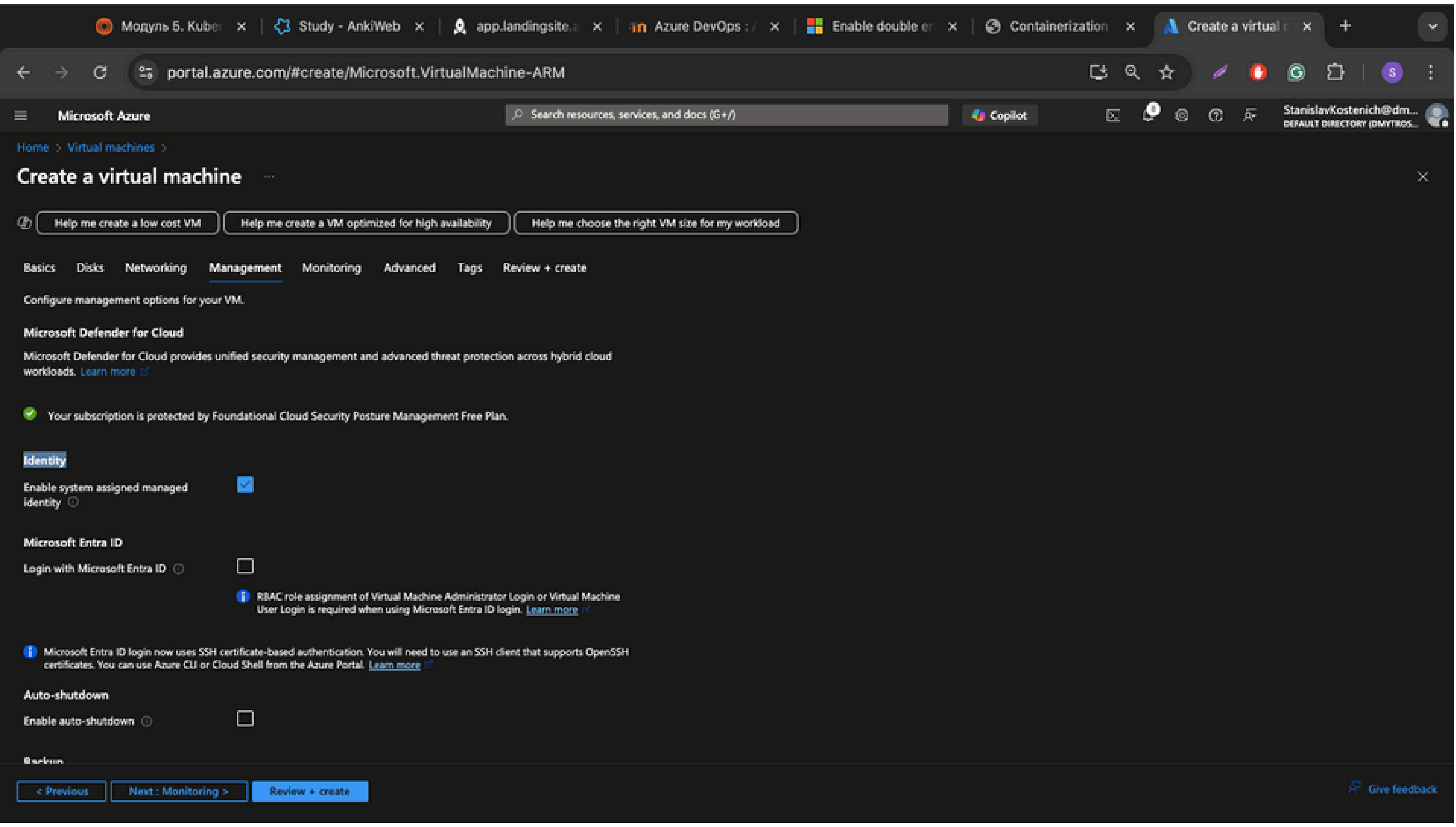
Find an Azure expert >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Containerization
Create a virtual m
portal.azure.com/#create/Microsoft.VirtualMachine-ARM
Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
StanislavKostenich@dm...
DEFAULT DIRECTORY (DMYTROS...
Home > Virtual machines >

Create a virtual machine

Help me create a low cost VM
Help me create a VM optimized for high availability
Help me choose the right VM size for my workload
Basics
Disks
Networking
Management
Monitoring
Advanced
Tags
Review + create

Configure management options for your VM.

Microsoft Defender for Cloud

Microsoft Defender for Cloud provides unified security management and advanced threat protection across hybrid cloud workloads. Learn more

✓ Your subscription is protected by Foundational Cloud Security Posture Management Free Plan.

Identity

Enable system assigned managed identity ☑

Microsoft Entra ID

Login with Microsoft Entra ID ☐

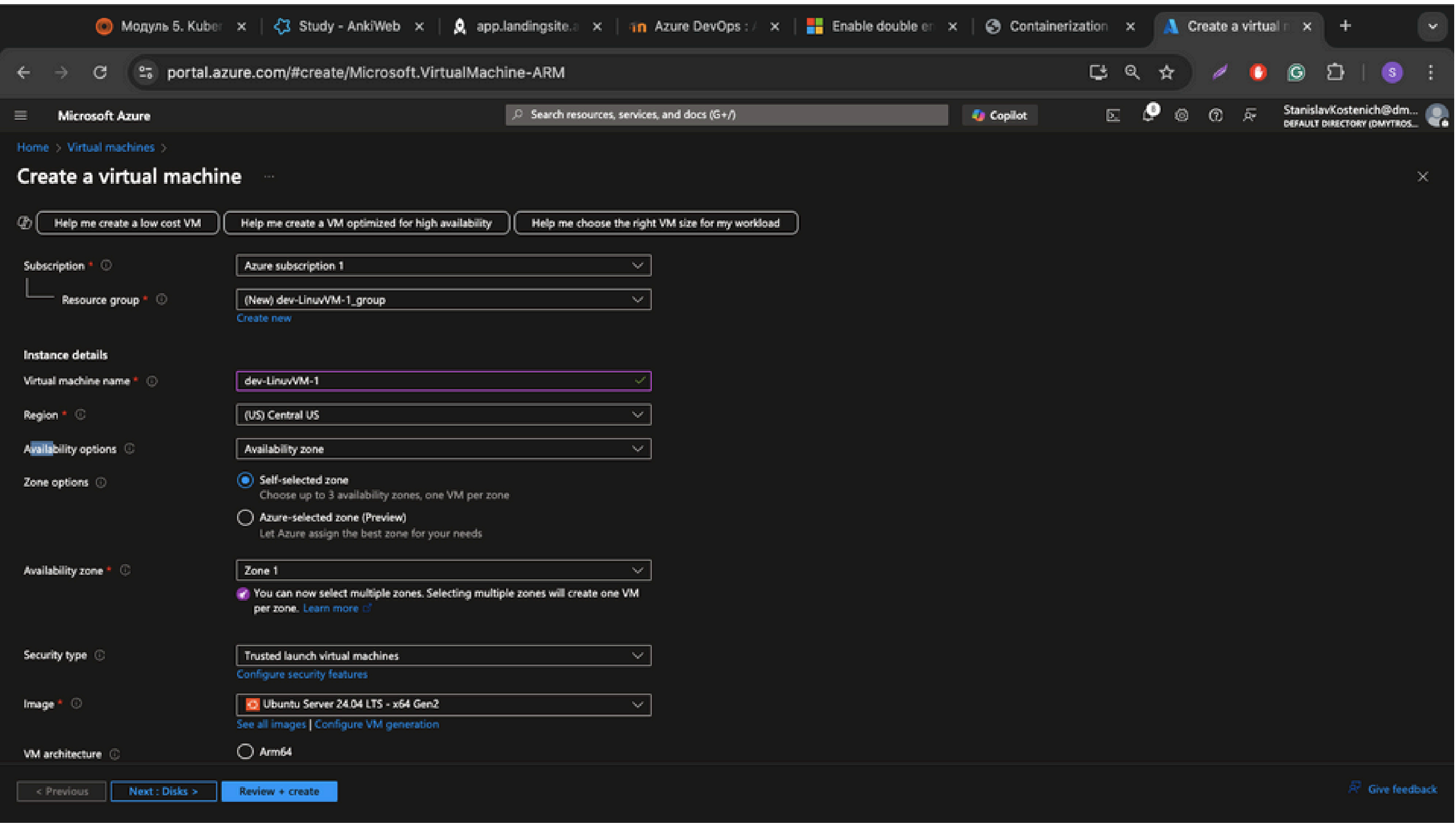
RBAC role assignment of Virtual Machine Administrator Login or Virtual Machine User Login is required when using Microsoft Entra ID login. Learn more

Microsoft Entra ID login now uses SSH certificate-based authentication. You will need to use an SSH client that supports OpenSSH certificates. You can use Azure CLI or Cloud Shell from the Azure Portal. Learn more

Auto-shutdown

Enable auto-shutdown ☐

Backup



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Containerization
Create a virtual r
portal.azure.com/#create/Microsoft.VirtualMachine-ARM
Microsoft Azure
Search resources, services, and docs (G+/)
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Home > Virtual machines >

Create a virtual machine

Help me create a low cost VM
Help me create a VM optimized for high availability
Help me choose the right VM size for my workload

Subscription * : Azure subscription 1

Resource group * : (New) dev-LinuvVM-1_group

Create new

Instance details

Virtual machine name * : dev-LinuvVM-1

Region * : (US) Central US

Availability options : Availability zone

Zone options :
● Self-selected zone
Choose up to 3 availability zones, one VM per zone
○ Azure-selected zone (Preview)
Let Azure assign the best zone for your needs

Availability zone * : Zone 1

You can now select multiple zones. Selecting multiple zones will create one VM per zone. Learn more

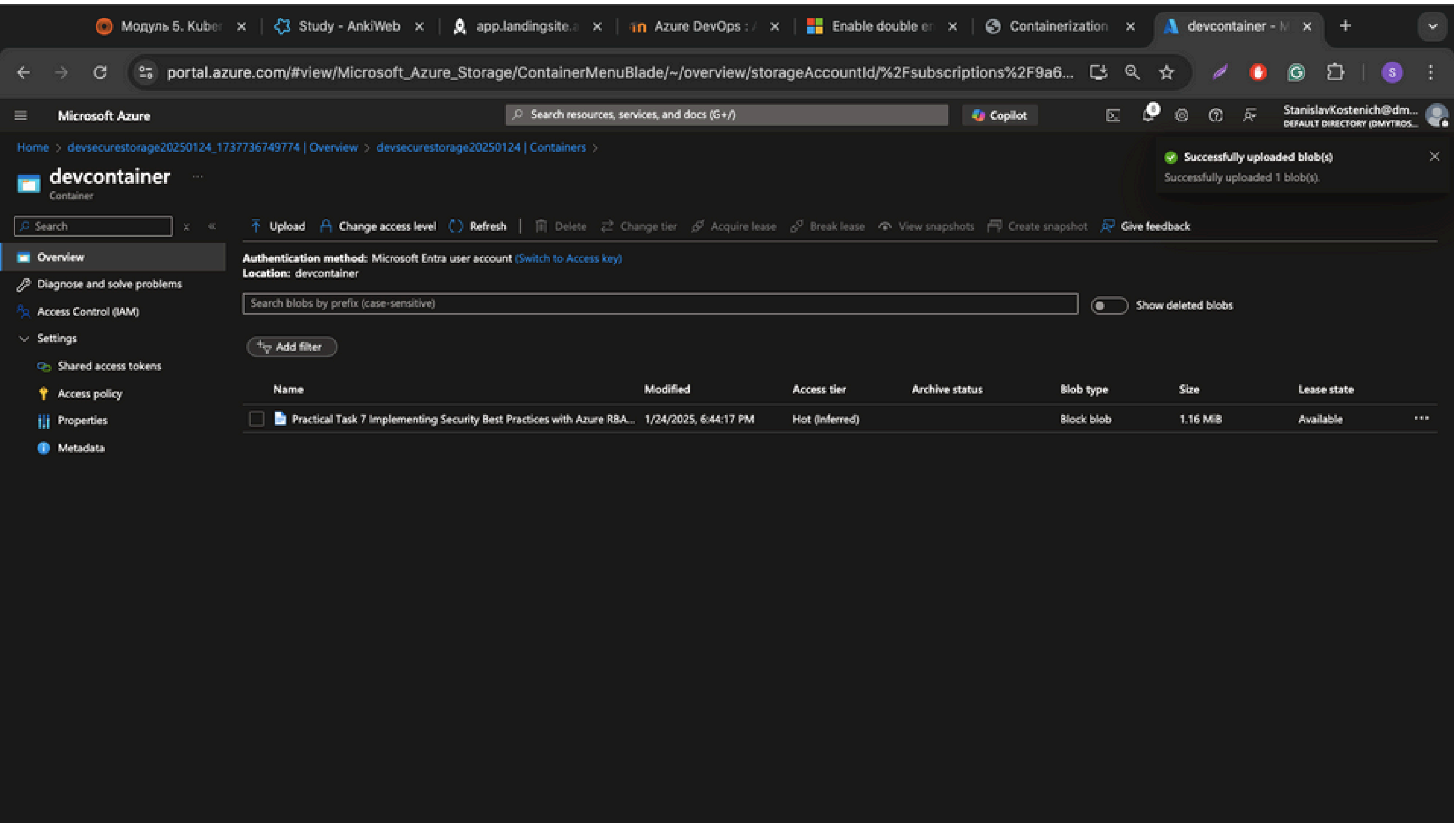
Security type : Trusted launch virtual machines

Configure security features

Image * : Ubuntu Server 24.04 LTS - x64 Gen2

See all images | Configure VM generation

VM architecture : ○ Arm64



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Enable double er
Containerization
devcontainer - M
portal.azure.com/#view/Microsoft_Azure_Storage/ContainerMenuBlade/~/overview/storageAccountId/%2Fsubscriptions%2F9a6...
Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
StanislavKostenich@dm...
DEFAULT DIRECTORY (DMYTROS...

Home > devsecurestorage20250124_1737736749774 | Overview > devsecurestorage20250124 | Containers >

devcontainer

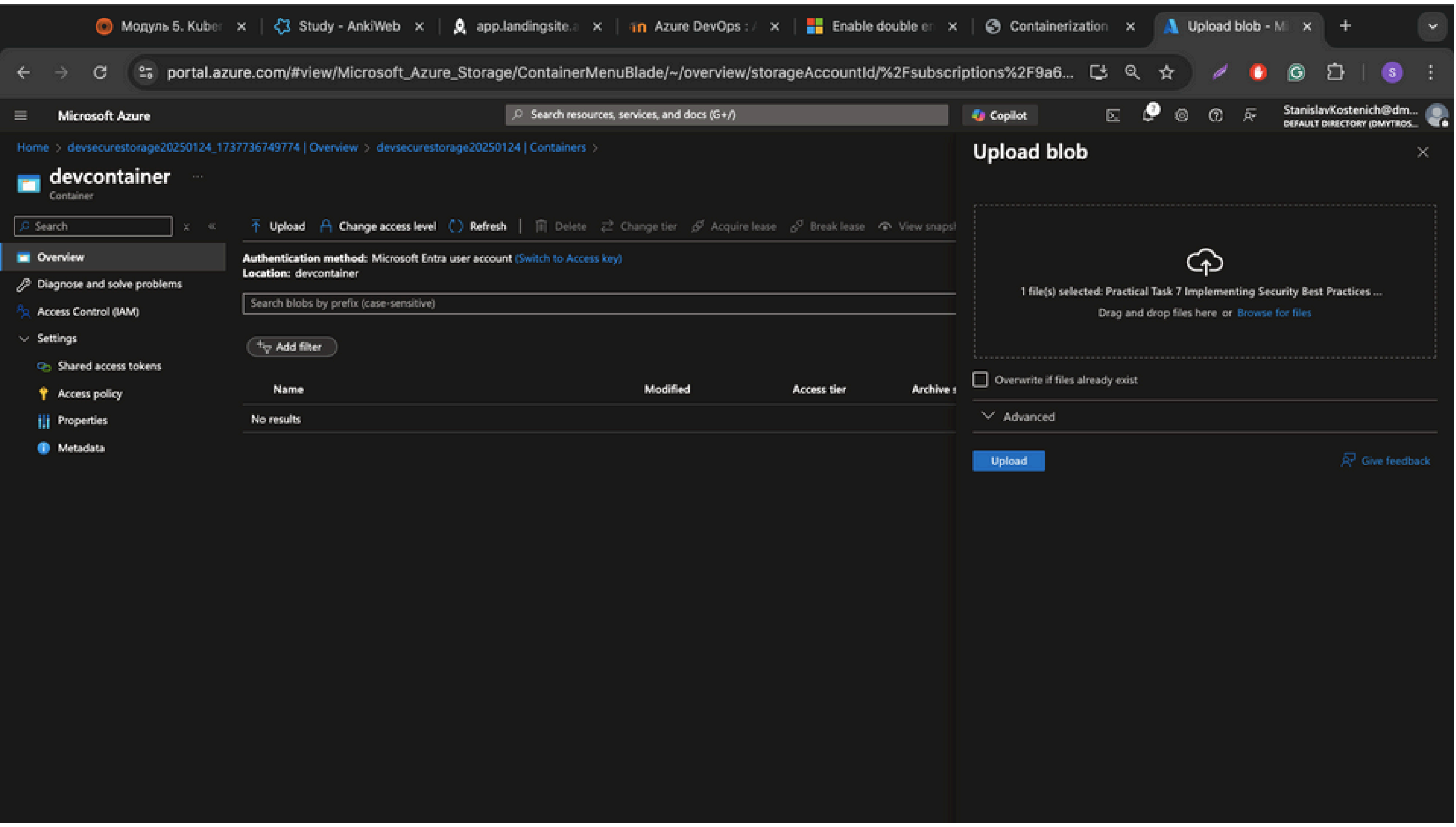
Container

Successfully uploaded blob(s)

Successfully uploaded 1 blob(s).

Authentication method: Microsoft Entra user account (Switch to Access key)
Location: devcontainer

	Name	Modified	Access tier	Archive status	Blob type	Size	Lease state
□	Practical Task 7 Implementing Security Best Practices with Azure RBA...	1/24/2025, 6:44:17 PM	Hot (Inferred)		Block blob	1.16 MiB	Available



portal.azure.com/#view/Microsoft_Azure_Storage/ContainerMenuBlade/~/overview/storageAccountId/%2Fsubscriptions%2F9a6...

Home > devsecurestorage20250124_1737736749774 | Overview > devsecurestorage20250124 | Containers >

devcontainer

Container

Authentication method: Microsoft Entra user account (Switch to Access key)
Location: devcontainer

Search blobs by prefix (case-sensitive)

Name	Modified	Access tier	Archive s
No results			

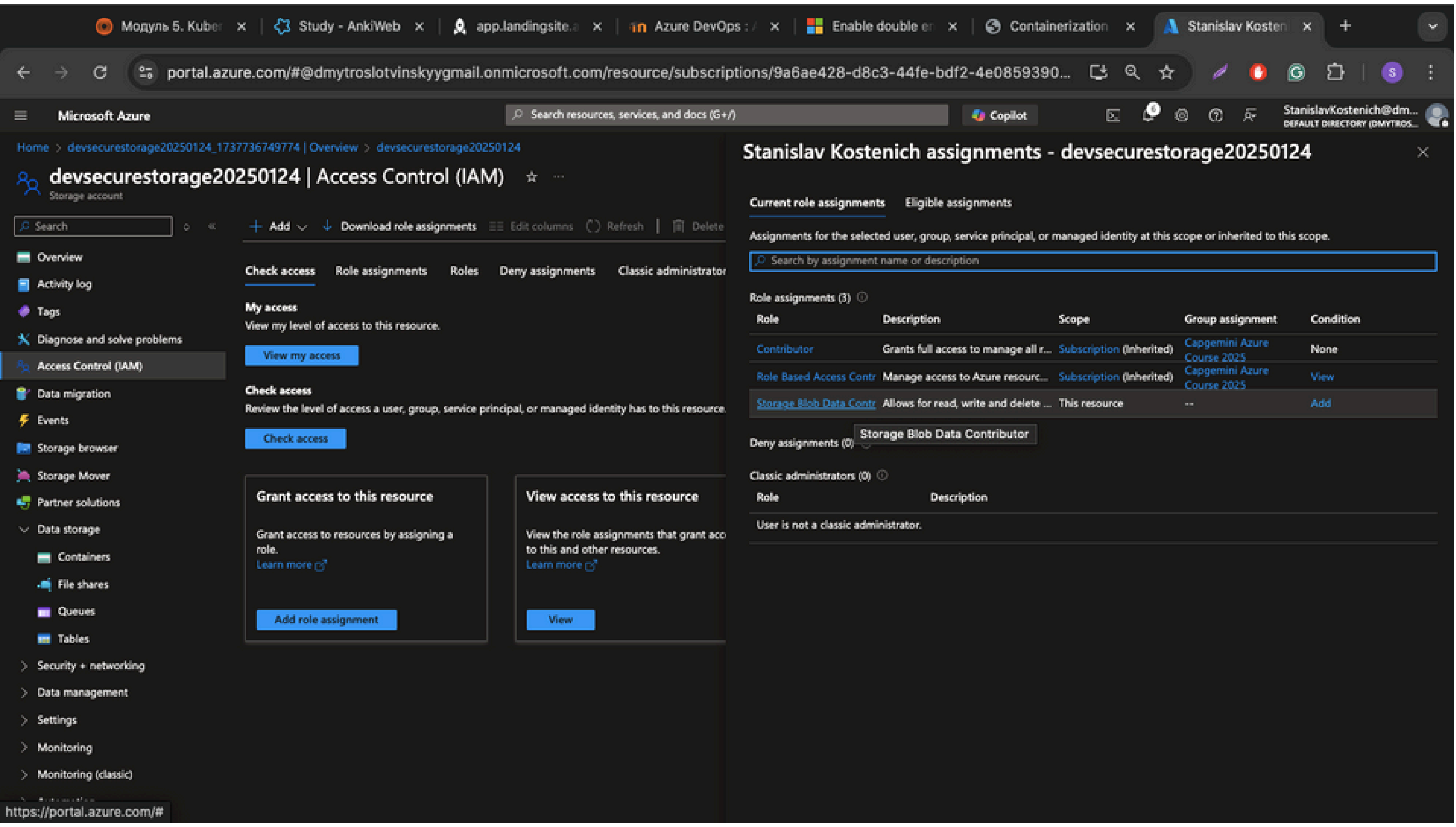
Upload blob

1 file(s) selected: Practical Task 7 Implementing Security Best Practices ...

Drag and drop files here or Browse for files

□ Overwrite if files already exist

Advanced



devsecurestorage20250124 | Access Control (IAM)

My access

View my level of access to this resource.

Check access

Review the level of access a user, group, service principal, or managed identity has to this resource.

Grant access to this resource

Grant access to resources by assigning a role.
Learn more

View access to this resource

View the role assignments that grant acc
to this and other resources.
Learn more

Stanislav Kostenich assignments - devsecurestorage20250124

Current role assignments | Eligible assignments

Assignments for the selected user, group, service principal, or managed identity at this scope or inherited to this scope.

Search by assignment name or description

Role assignments (3)

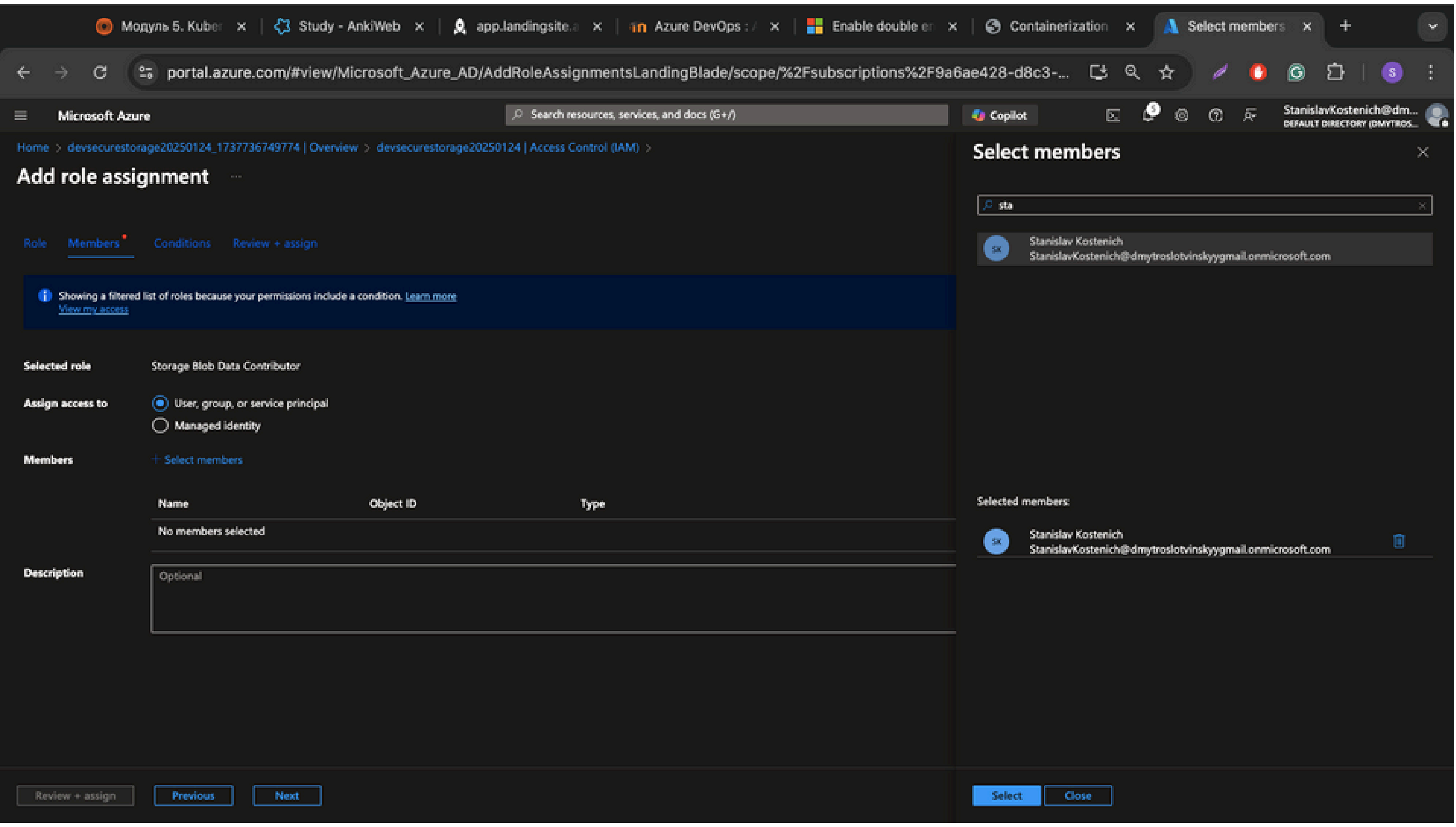
Role	Description	Scope	Group assignment	Condition
Contributor	Grants full access to manage all r...	Subscription (Inherited)	Capgemini Azure Course 2025	None
Role Based Access Contr	Manage access to Azure resourc...	Subscription (Inherited)	Capgemini Azure Course 2025	View
Storage Blob Data Contr	Allows for read, write and delete ...	This resource	--	Add

Storage Blob Data Contributor

Deny assignments (0)

Classic administrators (0)

Role	Description
User is not a classic administrator.	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Enable double er
Containerization
Select members
portal.azure.com/#view/Microsoft_Azure_AD/AddRoleAssignmentsLandingBlade/scope/%2Fsubscriptions%2F9a6ae428-d8c3-...
Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
StanislavKostenich@dm...
DEFAULT DIRECTORY (DMYTROS...
Home > devsecurestorage20250124_1737736749774 | Overview > devsecurestorage20250124 | Access Control (IAM) >
Role
Members
Conditions
Review + assign
Review + assign
Previous
Next
Select
Close

Add role assignment

Showing a filtered list of roles because your permissions include a condition. Learn more
View my access

Selected role Storage Blob Data Contributor

Assign access to
● User, group, or service principal
○ Managed identity

Members + Select members

Name	Object ID	Type
No members selected		

Description Optional

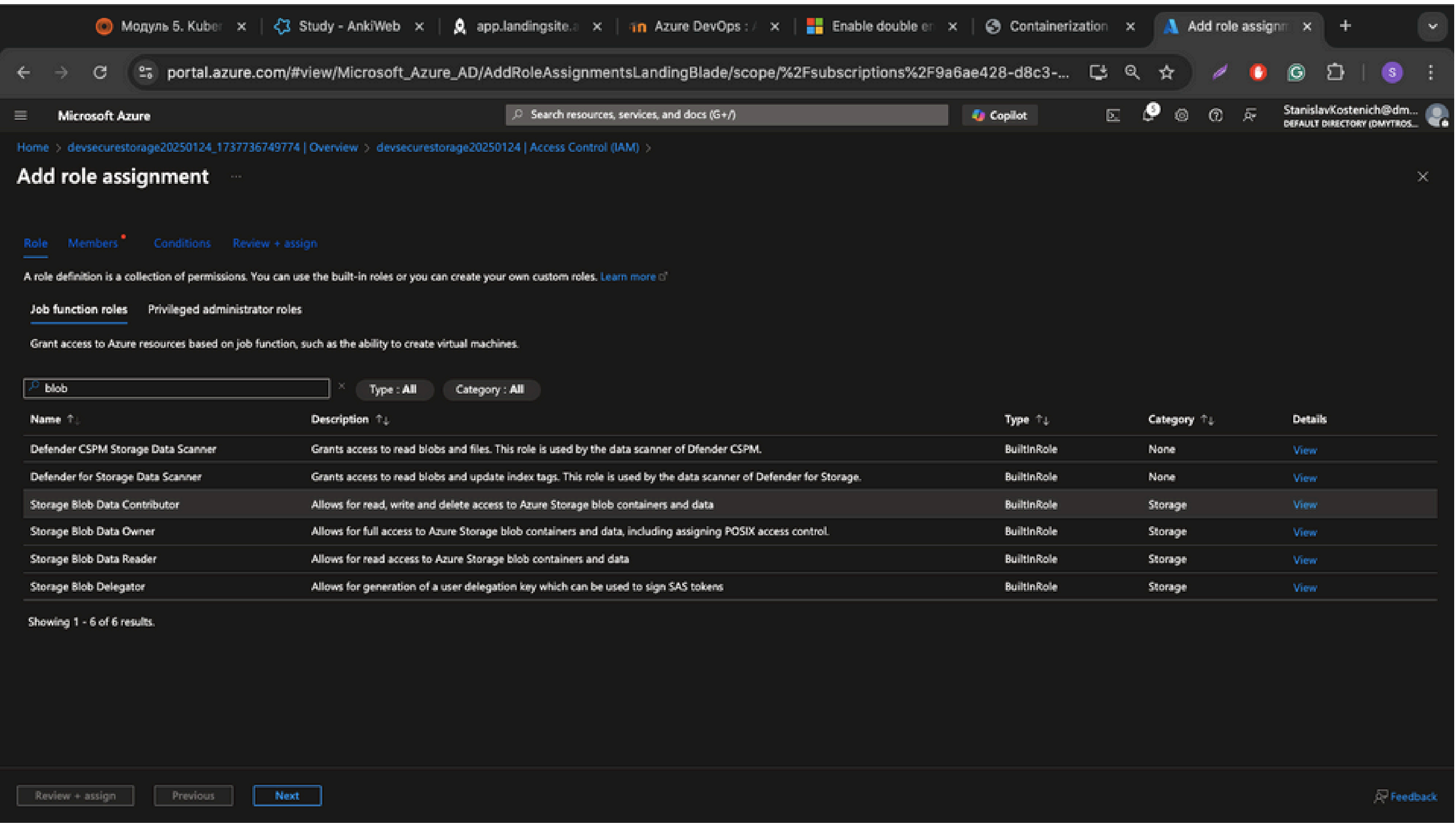
Select members

sta

SK Stanislav Kostenich
StanislavKostenich@dmytroslotvinskyygmail.onmicrosoft.com

Selected members:

SK Stanislav Kostenich
StanislavKostenich@dmytroslotvinskyygmail.onmicrosoft.com



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Enable double er
Containerization
Add role assignm
portal.azure.com/#view/Microsoft_Azure_AD/AddRoleAssignmentsLandingBlade/scope/%2Fsubscriptions%2F9a6ae428-d8c3-...
Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
StanislavKostenich@dm...
DEFAULT DIRECTORY (DMYTROS...
Home > devsecurestorage20250124_1737736749774 | Overview > devsecurestorage20250124 | Access Control (IAM) >

Add role assignment

Role
Members
Conditions
Review + assign

A role definition is a collection of permissions. You can use the built-in roles or you can create your own custom roles. Learn more

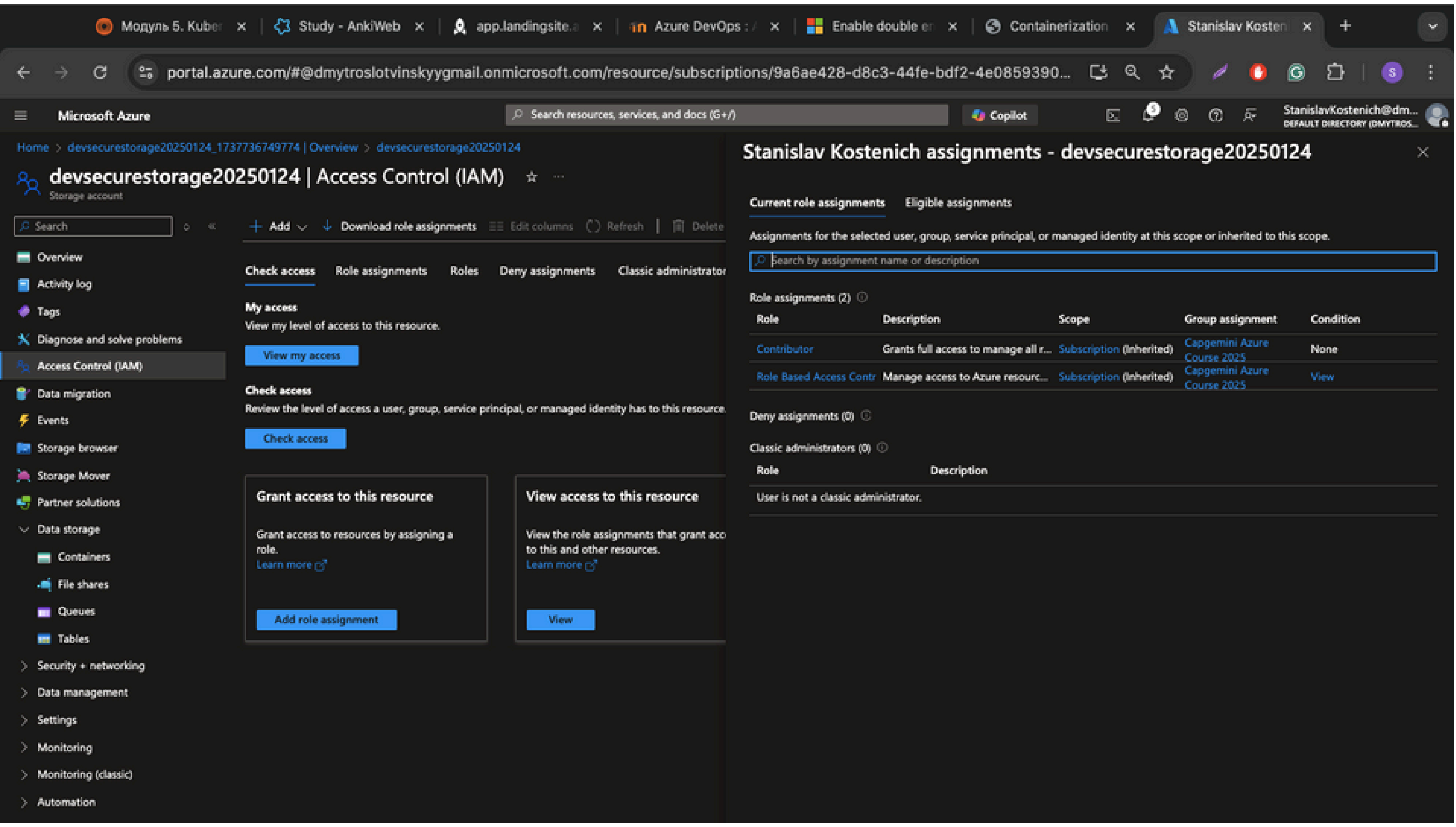
Job function roles
Privileged administrator roles

Grant access to Azure resources based on job function, such as the ability to create virtual machines.

blob
Type : All
Category : All

Name	Description	Type	Category	Details
Defender CSPM Storage Data Scanner	Grants access to read blobs and files. This role is used by the data scanner of Dfender CSPM.	BuiltInRole	None	View
Defender for Storage Data Scanner	Grants access to read blobs and update index tags. This role is used by the data scanner of Defender for Storage.	BuiltInRole	None	View
Storage Blob Data Contributor	Allows for read, write and delete access to Azure Storage blob containers and data	BuiltInRole	Storage	View
Storage Blob Data Owner	Allows for full access to Azure Storage blob containers and data, including assigning POSIX access control.	BuiltInRole	Storage	View
Storage Blob Data Reader	Allows for read access to Azure Storage blob containers and data	BuiltInRole	Storage	View
Storage Blob Delegator	Allows for generation of a user delegation key which can be used to sign SAS tokens	BuiltInRole	Storage	View

Showing 1 - 6 of 6 results.



portal.azure.com/#@dmytroslotvinskyygmail.onmicrosoft.com/resource/subscriptions/9a6ae428-d8c3-44fe-bdf2-4e0859390...

Home > devsecurestorage20250124_1737736749774 | Overview > devsecurestorage20250124

devsecurestorage20250124 | Access Control (IAM)

Storage account

My access

View my level of access to this resource.

Check access

Review the level of access a user, group, service principal, or managed identity has to this resource.

Grant access to this resource

Grant access to resources by assigning a role.
Learn more

View access to this resource

View the role assignments that grant acc to this and other resources.
Learn more

Stanislav Kostenich assignments - devsecurestorage20250124

Assignments for the selected user, group, service principal, or managed identity at this scope or inherited to this scope.

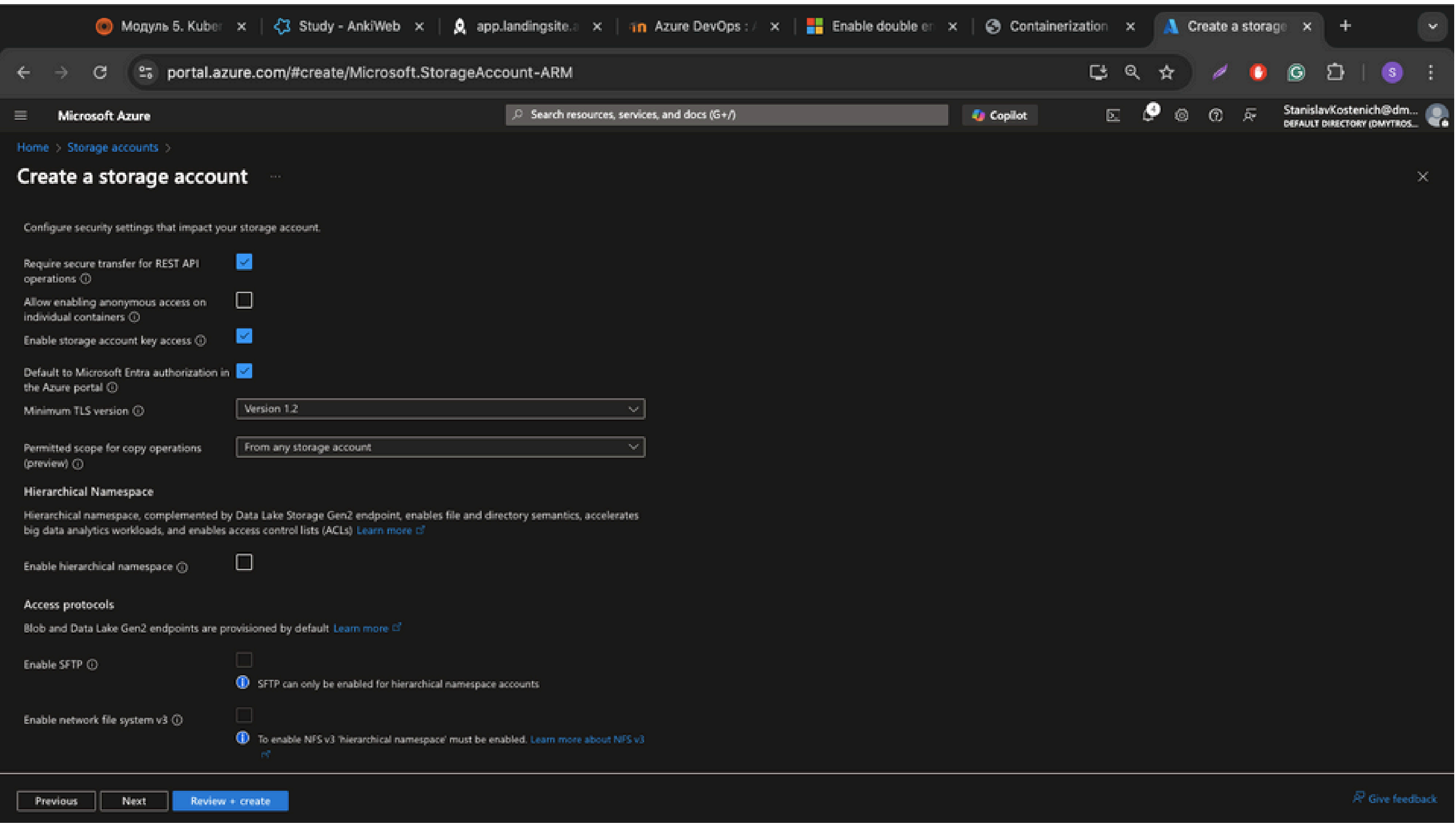
Role assignments (2)

Role	Description	Scope	Group assignment	Condition
Contributor	Grants full access to manage all r...	Subscription (Inherited)	Capgemini Azure Course 2025	None
Role Based Access Contr	Manage access to Azure resourc...	Subscription (Inherited)	Capgemini Azure Course 2025	View

Deny assignments (0)

Classic administrators (0)

Role	Description
User is not a classic administrator.	



Create a storage account

Configure security settings that impact your storage account.

Require secure transfer for REST API operations ⓘ ☑

Allow enabling anonymous access on individual containers ⓘ ☐

Enable storage account key access ⓘ ☑

Default to Microsoft Entra authorization in the Azure portal ⓘ ☑

Minimum TLS version ⓘ Version 1.2

Permitted scope for copy operations (preview) ⓘ From any storage account

Hierarchical Namespace

Hierarchical namespace, complemented by Data Lake Storage Gen2 endpoint, enables file and directory semantics, accelerates big data analytics workloads, and enables access control lists (ACLs) Learn more

Enable hierarchical namespace ⓘ ☐

Access protocols

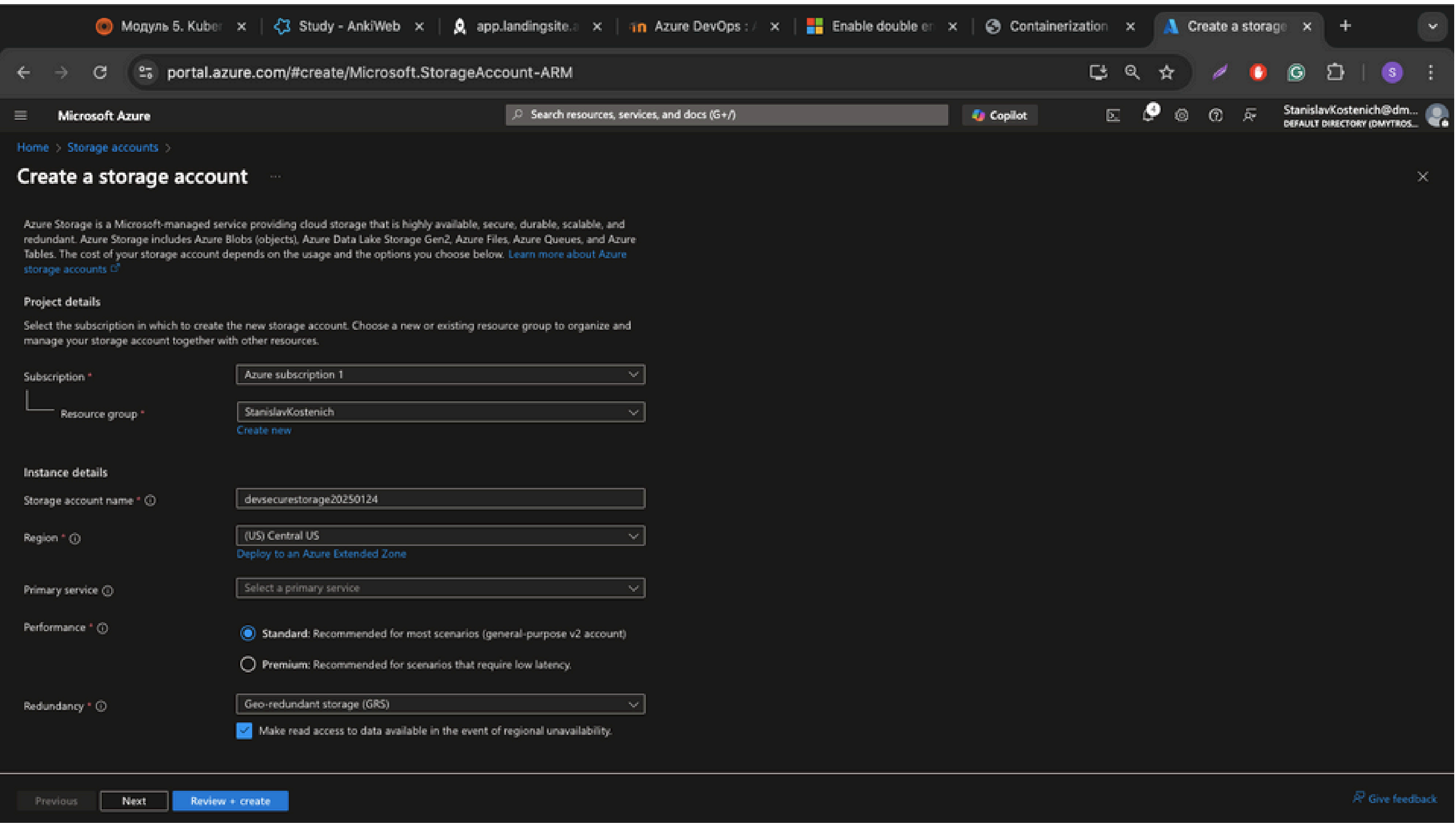
Blob and Data Lake Gen2 endpoints are provisioned by default Learn more

Enable SFTP ⓘ ☐

ⓘ SFTP can only be enabled for hierarchical namespace accounts

Enable network file system v3 ⓘ ☐

ⓘ To enable NFS v3 'hierarchical namespace' must be enabled. Learn more about NFS v3



portal.azure.com/#create/Microsoft.StorageAccount-ARM

Create a storage account

Azure Storage is a Microsoft-managed service providing cloud storage that is highly available, secure, durable, scalable, and redundant. Azure Storage includes Azure Blobs (objects), Azure Data Lake Storage Gen2, Azure Files, Azure Queues, and Azure Tables. The cost of your storage account depends on the usage and the options you choose below. Learn more about Azure storage accounts

Project details

Select the subscription in which to create the new storage account. Choose a new or existing resource group to organize and manage your storage account together with other resources.

Subscription *	Azure subscription 1
Resource group *	StanislavKostenich Create new

Instance details

Storage account name *	devsecurestorage20250124
Region *	(US) Central US Deploy to an Azure Extended Zone
Primary service	Select a primary service
Performance *	● **Standard:** Recommended for most scenarios (general-purpose v2 account) ○ **Premium:** Recommended for scenarios that require low latency.
Redundancy *	Geo-redundant storage (GRS) ☑ Make read access to data available in the event of regional unavailability.