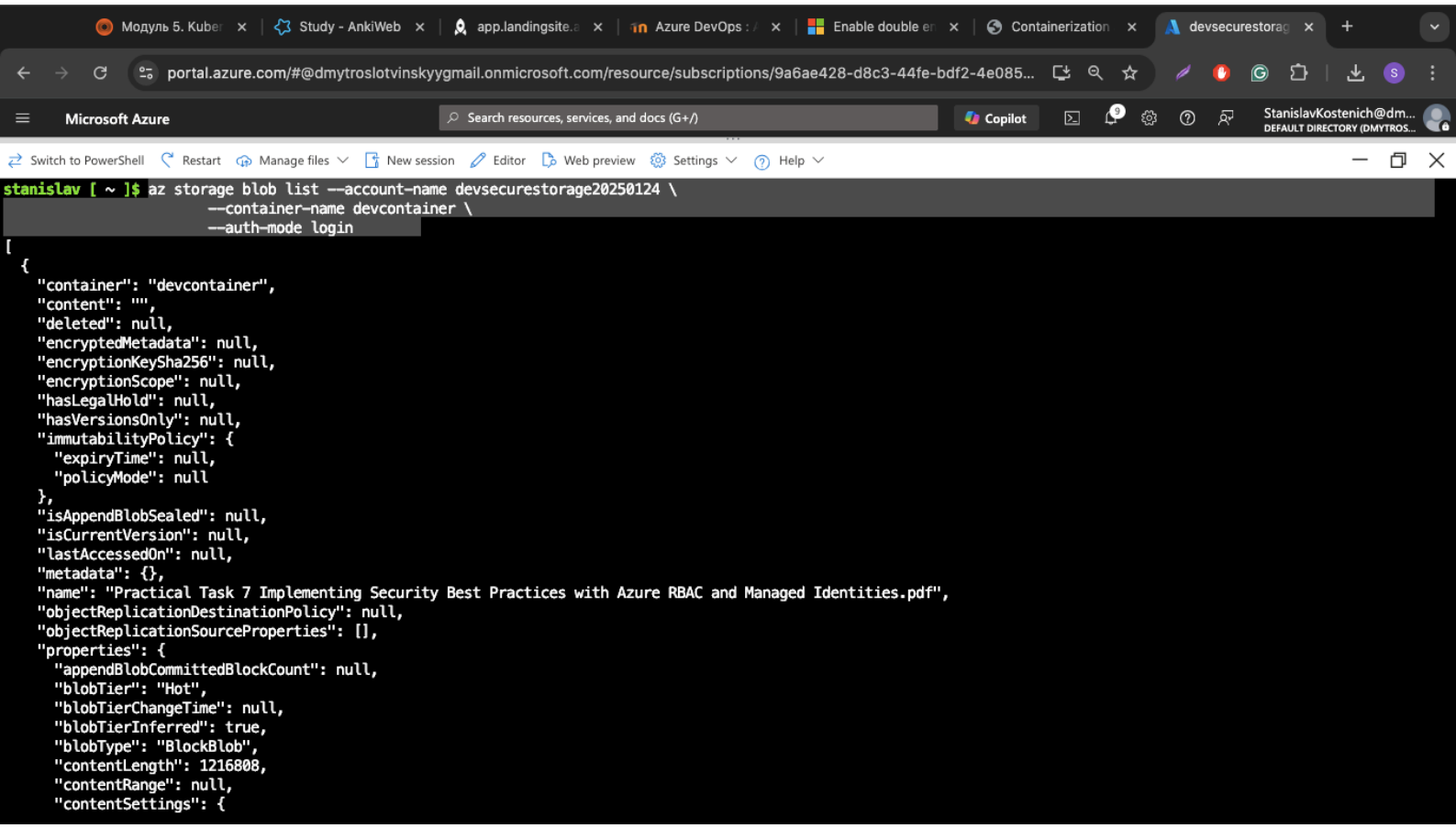
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Switch to PowerShell
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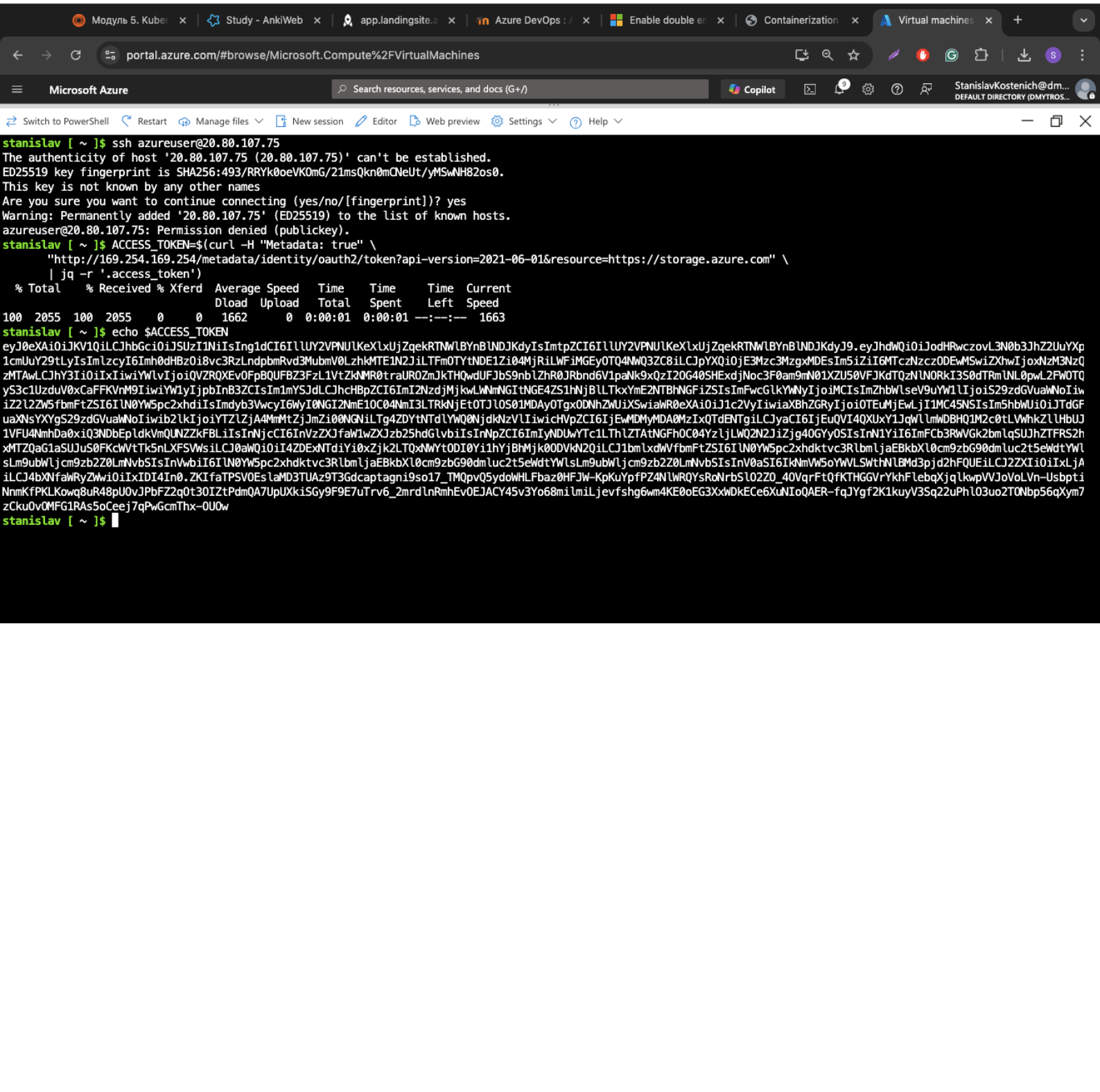
New session
Editor
Web preview
Settings
Help
stanislav [~]$ az storage blob list --account-name devsecurestorage20250124 \
--container-name devcontainer \
--auth-mode login
[
{
"container": "devcontainer",
"content": "",
"deleted": null,
"encryptedMetadata": null,
"encryptionKeySha256": null,
"encryptionScope": 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": {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Switch to PowerShell
Restart
Manage files
New session
Editor
Web preview
Settings
Help
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 $ACCESS_TOKEN
eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiIsIng1dCI6IllUY2VPNUlKeXlxUjZqekRTNWlBYnBlNDJKdyIsImtpZCI6IllUY2VPNUlKeXlxUjZqekRTNWlBYnBlNDJKdyJ9.eyJhdWQiOiJodHRwczovL3N0b3JhZ2UuYXp
1cmUuY29tLyIsImlzcyI6Imh0dHBzOi8vc3RzLndpbmRvd3MubmV0LzhkMTE1N2JiLTFmOTYtNDE1Zi04MjRiLWFiMGEyOTQ4NWQ3ZC8iLCJpYXQiOjE3Mzc3MzgxMDEsIm5iZiI6MTczNzczODEwMSwiZXhwIjoxNzM3NzQ
zMTAwLCJhY3IiOiIxIiwiYWlvIjoiQVZRQXEvOFpBQUFBZ3FzL1VtZkNMR0traUROZmJkTHQwdUFJbS9nblZhR0JRbnd6V1paNk9xQzI2OG40SHExdjNoc3F0am9mN01XZU50VFJKdTQzNlNORkI3S0dTRmlNL0pwL2FWOTQ
yS3c1UzduV0xCaFFKVnM9IiwiYW1yIjpbInB3ZCIsIm1mYSJdLCJhcHBpZCI6ImI2NzdjMjkwLWNmNGItNGE4ZS1hNjBlLTkxYmE2NTBhNGFiZSIsImFwcGlkYWNyIjoiMCIsImZhbWlseV9uYW1lIjoiS29zdGVuaWNoIiw
iZ2l2ZW5fbmFtZSI6IlN0YW5pc2xhdiIsImdyb3VwcyI6WyI0NGI2NmE1OC04NmI3LTRkNjEtOTJlOS01MDAyOTgxODNhZWUiXSwiaWR0eXAiOiJ1c2VyIiwiaXBhZGRyIjoiOTEuMjEwLjI1MC45NSIsIm5hbWUiOiJTdGF
uaXNsYXYgS29zdGVuaWNoIiwib2lkIjoiYTZlZjA4MmMtZjJmZi00NGNiLTg4ZDYtNTdlYWQ0NjdkNzVlIiwicHVpZCI6IjEwMDMyMDA0MzIxQTdENTgiLCJyaCI6IjEuQVI4QXUxY1JqWllmWDBHQ1M2c0tLVWhkZllHbUJ
1VFU4NmhDa0xiQ3NDbEpldkVmQUNZZkFBLiIsInNjcCI6InVzZXJfaW1wZXJzb25hdGlvbiIsInNpZCI6ImIyNDUwYTc1LThlZTAtNGFhOC04YzljLWQ2N2JiZjg4OGYyOSIsInN1YiI6ImFCb3RWVGk2bmlqSUJhZTFRS2h
xMTZQaG1aSUJuS0FKcWVtTk5nLXFSVWsiLCJ0aWQiOiI4ZDExNTdiYi0xZjk2LTQxNWYtODI0Yi1hYjBhMjk0ODVkN2QiLCJ1bmlxdWVfbmFtZSI6IlN0YW5pc2xhdktvc3RlbmljaEBkbXl0cm9zbG90dmluc2t5eWdtYWl
sLm9ubWljcm9zb2Z0LmNvbSIsInVwbiI6IlN0YW5pc2xhdktvc3RlbmljaEBkbXl0cm9zbG90dmluc2t5eWdtYWlsLm9ubWljcm9zb2Z0LmNvbSIsInV0aSI6IkNmVW5oYWVLSWthNlBMd3pjd2hFQUEiLCJ2ZXIiOiIxLjA
iLCJ4bXNfaWRyZWwiOiIxIDI4In0.ZKIfaTPSVOEslaMD3TUAz9T3Gdcaptagni9so17_TMQpvQ5ydoWHLFbaz0HFJW-KpKuYpfPZ4NlWRQYsRoNrbSlO2ZO_4OVqrFtQfKTHGGVrYkhFlebqXjqlkwpVVJoVoLVn-Usbpti
NnmKfPKLKowq8uR48pUOvJPbFZ2qOt3OIZtPdmQA7UpUXkiSGy9F9E7uTrv6_2mrdlnRmhEvOEJACY45v3Yo68milmiLjevfshg6wm4KE0oEG3XxWDkECe6XuNIoQAER-fqJYgf2K1kuyV3Sq22uPhlO3uo2TONbp56qXym7
zCkuOvOMFG1RAs5oCeej7qPwGcmThx-OUOw
stanislav [~]$

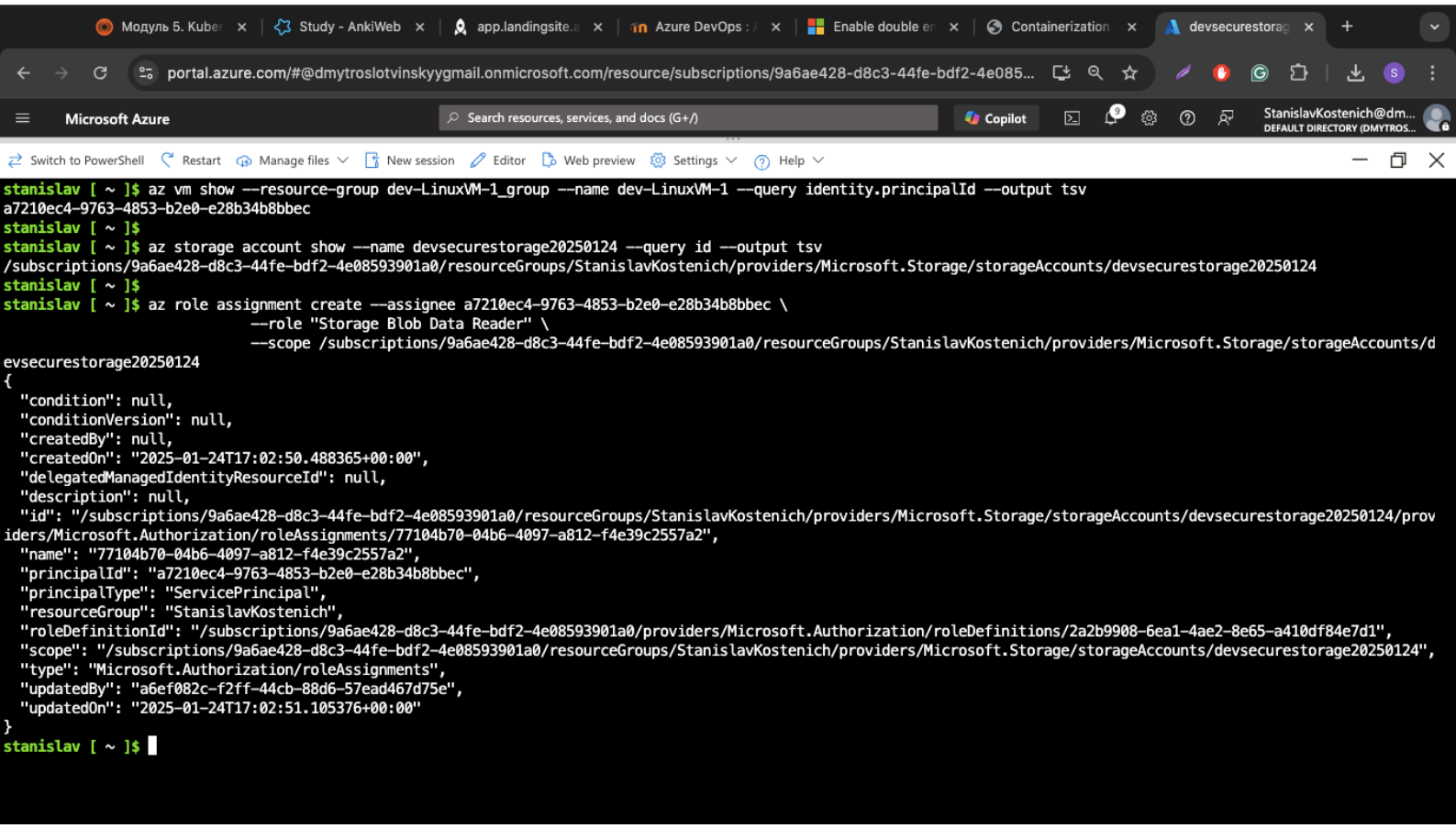
````
---

### **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 $ACCESS_TOKEN" \
        "https://secure-storage.blob.core.windows.net/mycontainer?restype=container&comp=list"
   ```
````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Switch to PowerShell
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Manage files
New session
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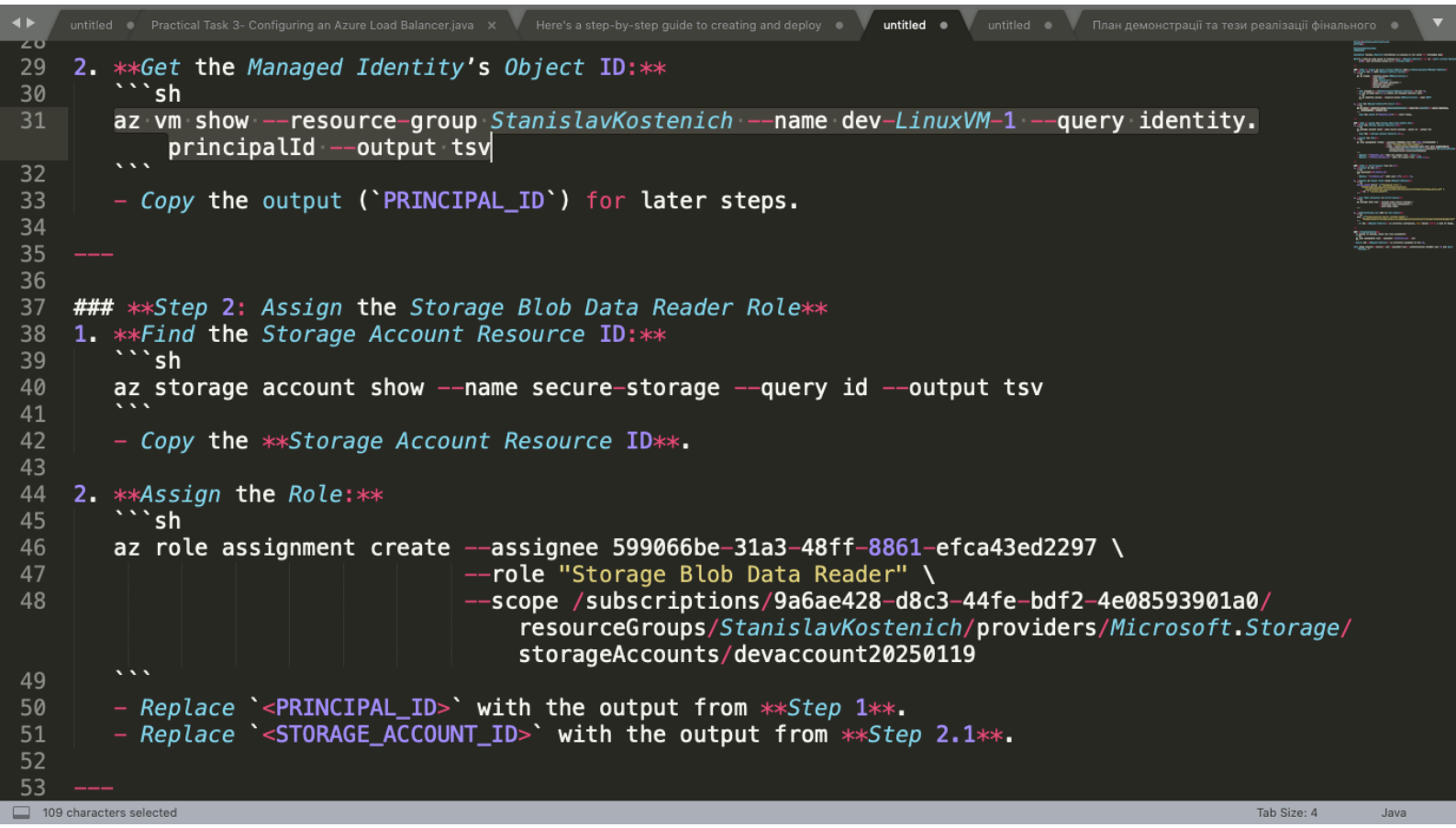
Settings
Help
stanislav [~]$ az vm show --resource-group dev-LinuxVM-1_group --name dev-LinuxVM-1 --query identity.principalId --output tsv
a7210ec4-9763-4853-b2e0-e28b34b8bbec
stanislav [~]$
stanislav [~]$ az storage account show --name devsecurestorage20250124 --query id --output tsv
/subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resourceGroups/StanislavKostenich/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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Practical Task 3- Configuring an Azure Load Balancer.java
Here's a step-by-step guide to creating and deploy
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untitled
План демонстрації та тези реалізації фінального
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**.
---
109 characters selected
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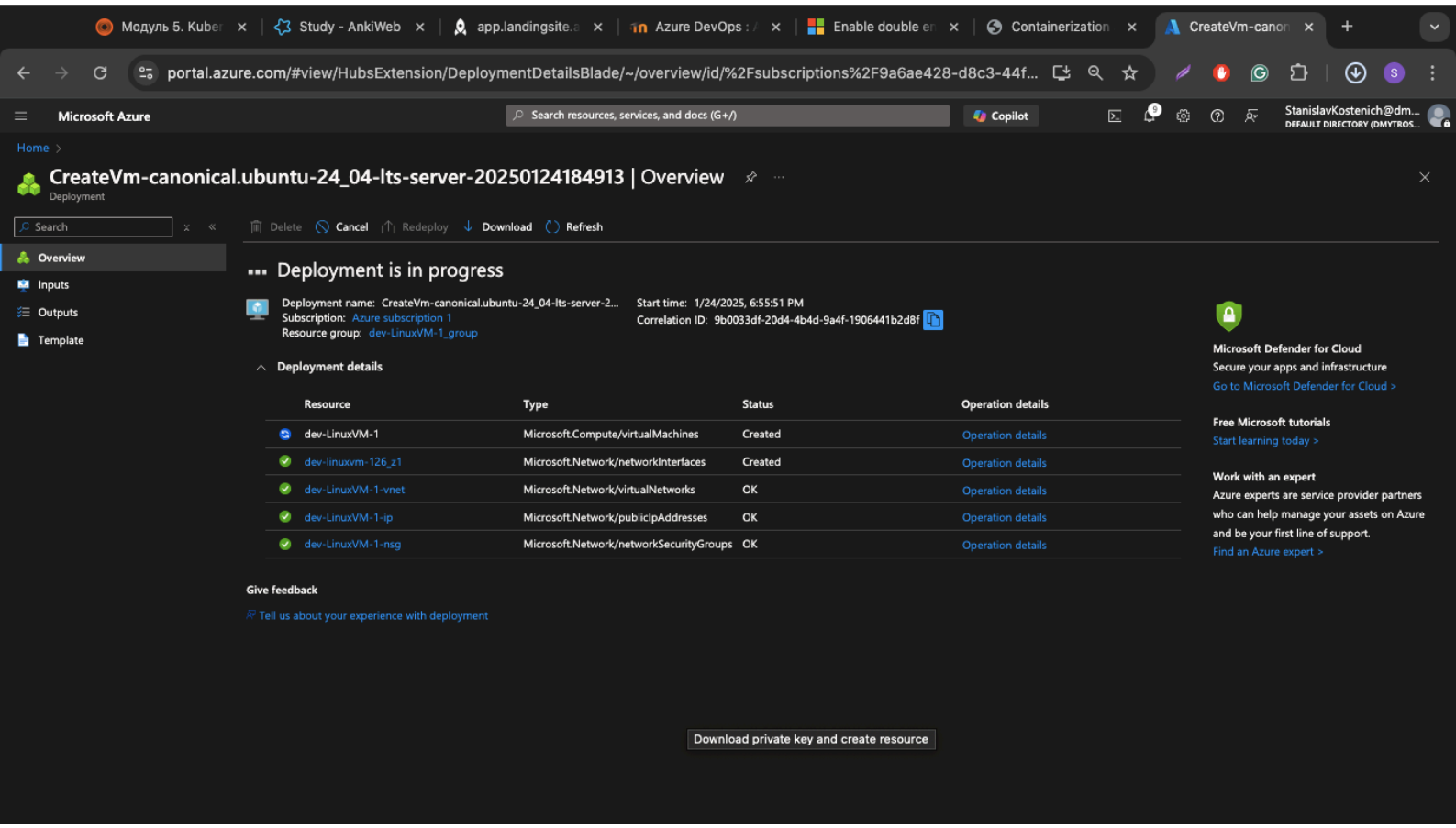
Java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portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2F9a6ae428-d8c3-44f...
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Home
CreateVm-canonical.ubuntu-24_04-lts-server-20250124184913 | Overview
Deployment
Search
Overview
Inputs
Outputs
Template
Delete
Cancel
Redeploy
Download
Refresh
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
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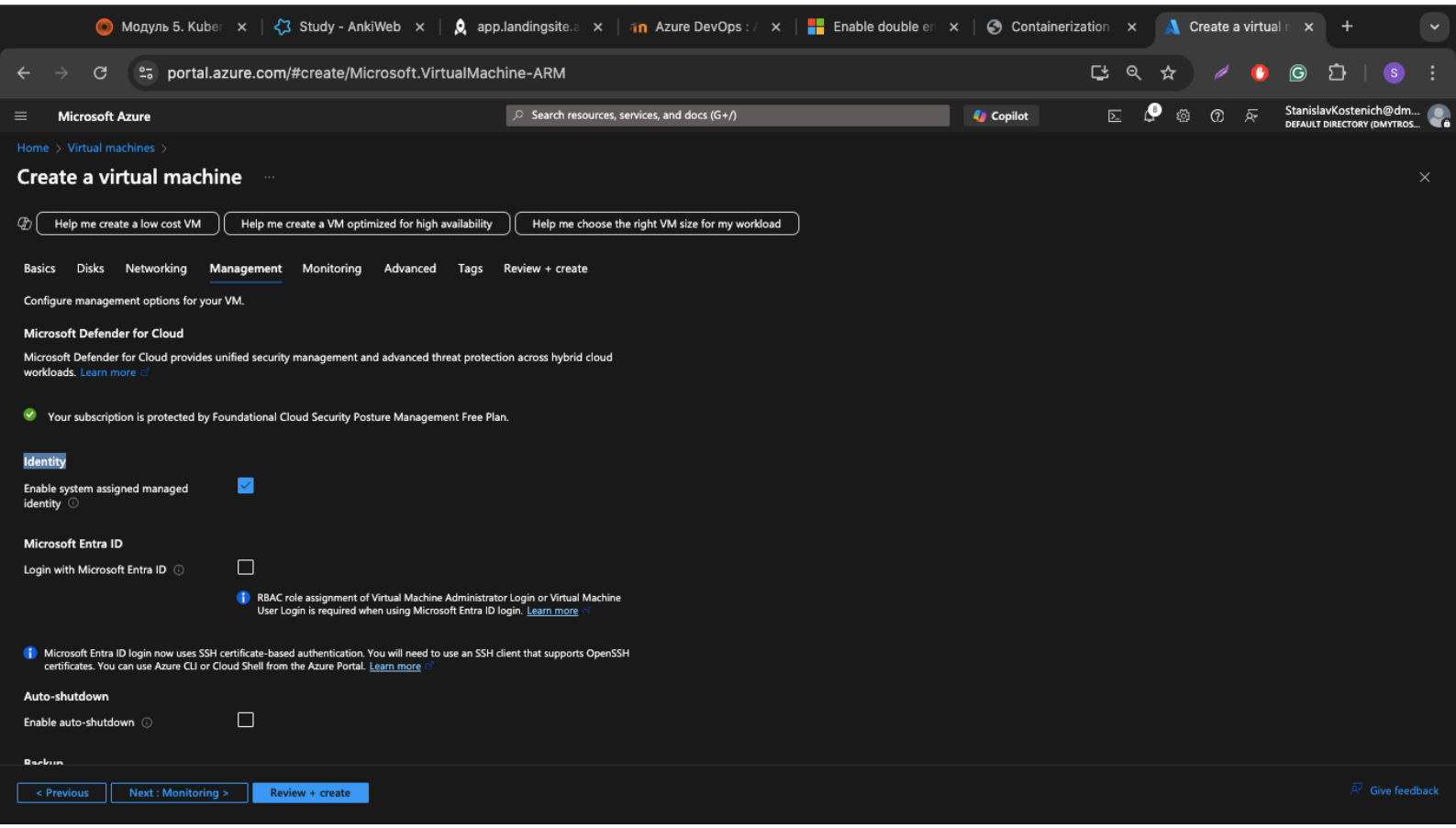
Download private key and create resource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Help me create a low cost VM
Help me create a VM optimized for high availability
Help me choose the right VM size for my workload
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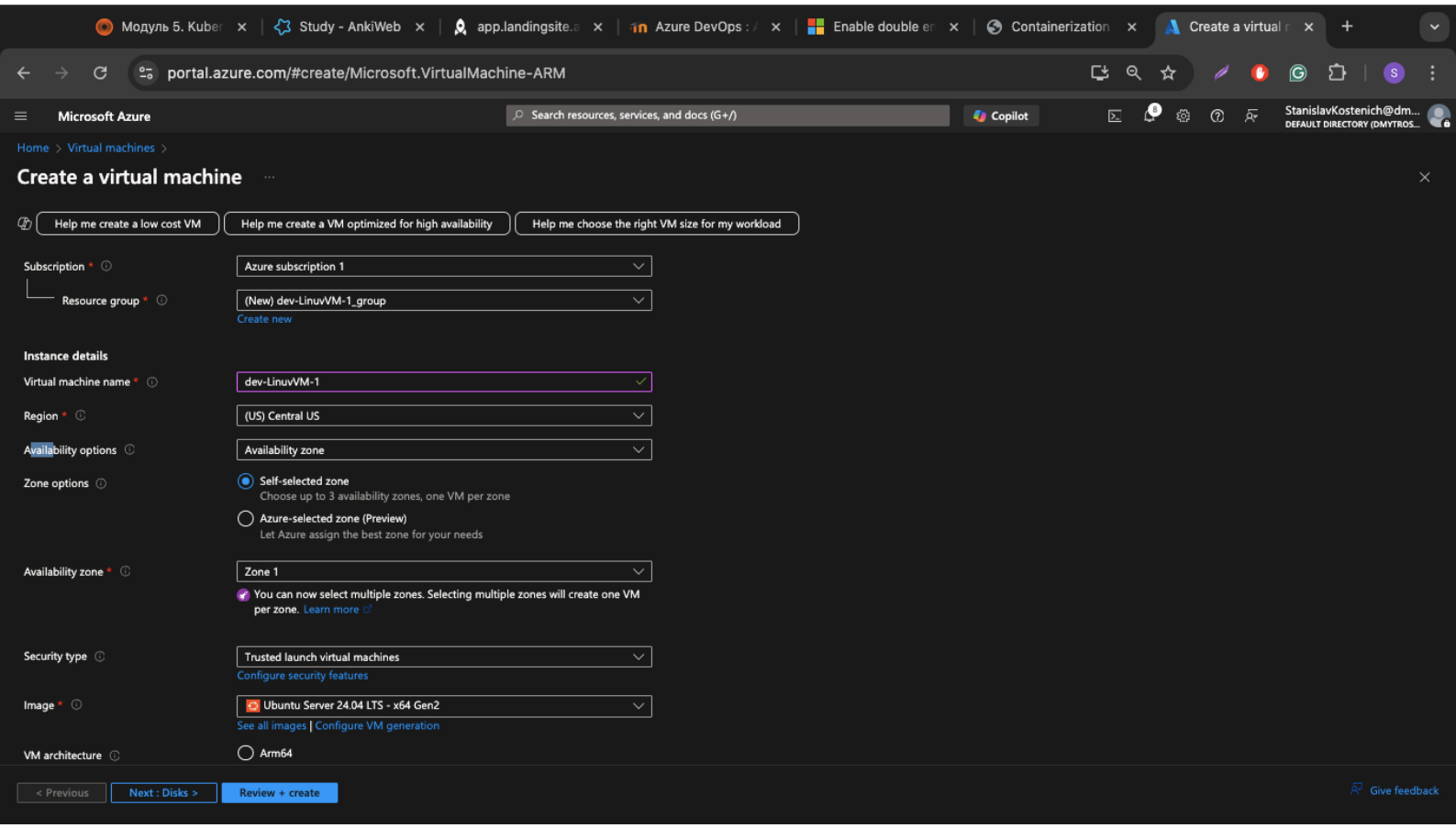
Configure management options for your VM.
Microsoft Defender for Cloud
Microsoft Defender for Cloud provides unified security management and advanced threat protection across hybrid cloud workloads. Learn more
Your subscription is protected by Foundational Cloud Security Posture Management Free Plan.
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
< Previous
Next : Monitoring >
Review + create
Give feedback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portal.azure.com/#create/Microsoft.VirtualMachine-ARM
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Home > Virtual machines >
Create a virtual machine
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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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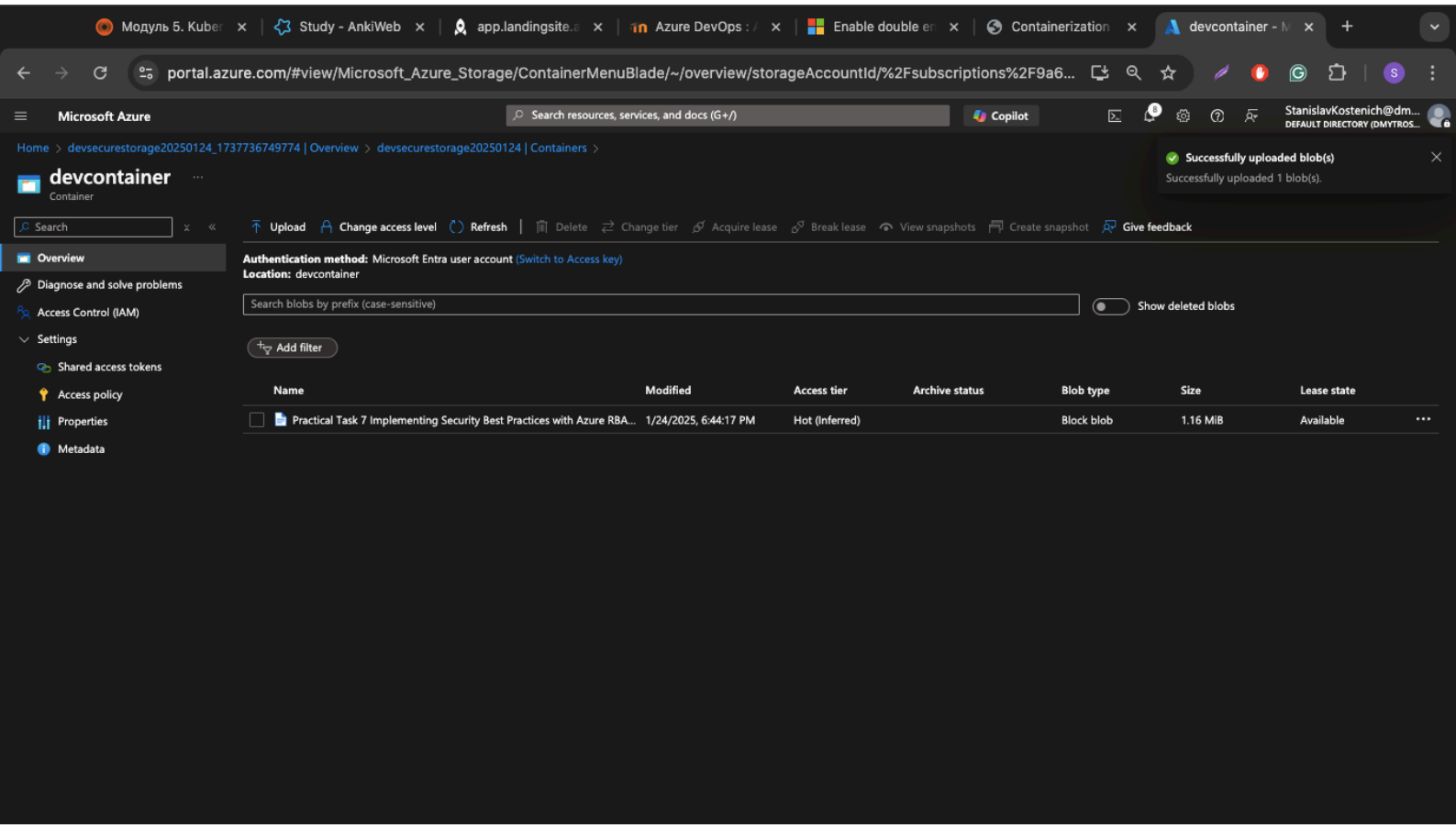
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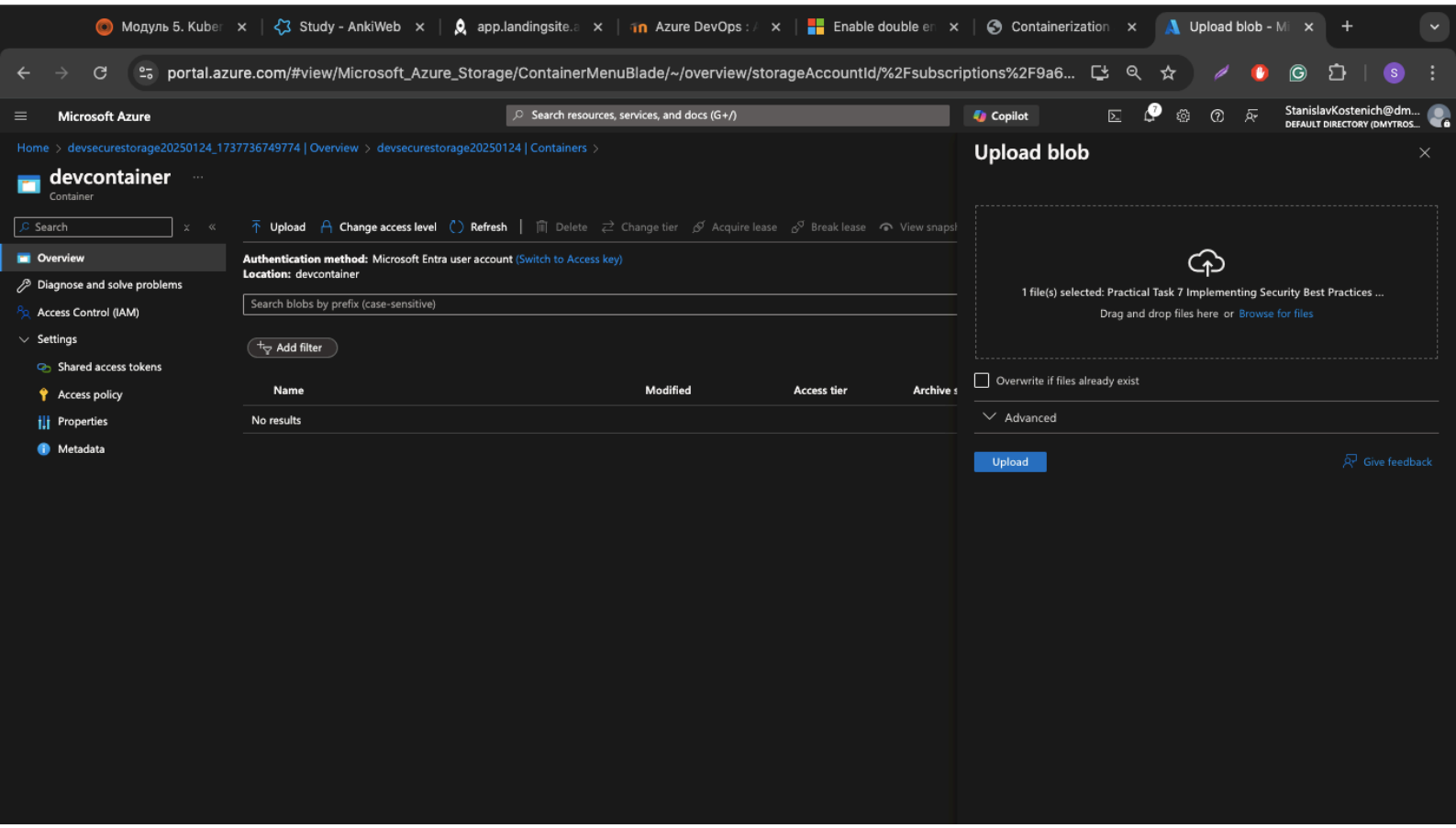
devcontainer
Container
Search
Overview
Diagnose and solve problems
Access Control (IAM)
Settings
Shared access tokens
Access policy
Properties
Metadata
Upload
Change access level
Refresh
Delete
Change tier
Acquire lease
Break lease
View snapshots
Create snapshot
Give feedback
Successfully uploaded blob(s)
Successfully uploaded 1 blob(s).
Authentication method: Microsoft Entra user account (Switch to Access key)
Location: devcontainer
Search blobs by prefix (case-sensitive)
Show deleted blobs
Add filter
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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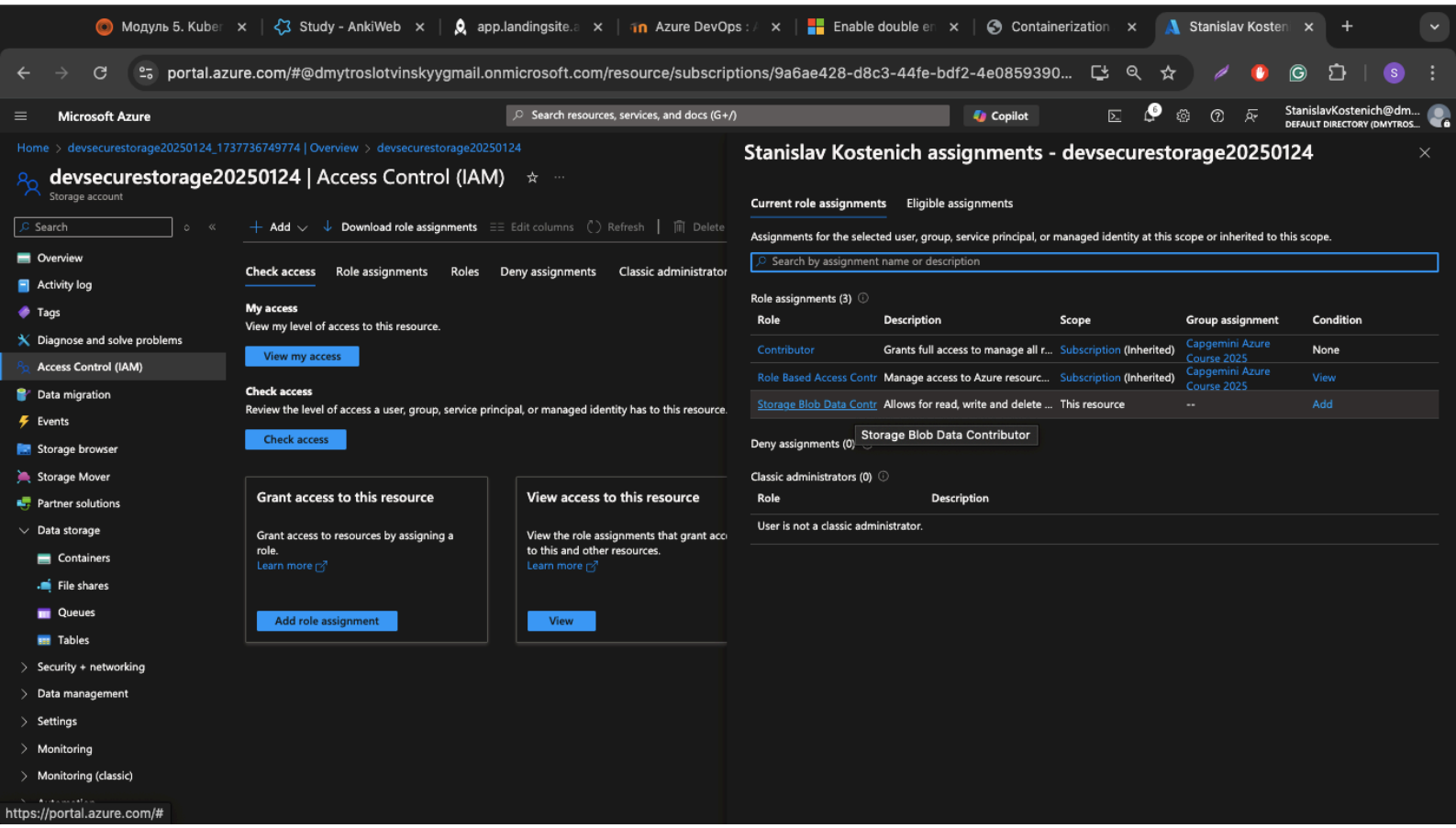
Access policy
Properties
Metadata
Upload
Change access level
Refresh
Delete
Change tier
Acquire lease
Break lease
View snapsh
Authentication method: Microsoft Entra user account (Switch to Access key)
Location: devcontainer
Search blobs by prefix (case-sensitive)
Add filter
Name
Modified
Access tier
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
Upload
Give feedback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Storage account
Search
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Events
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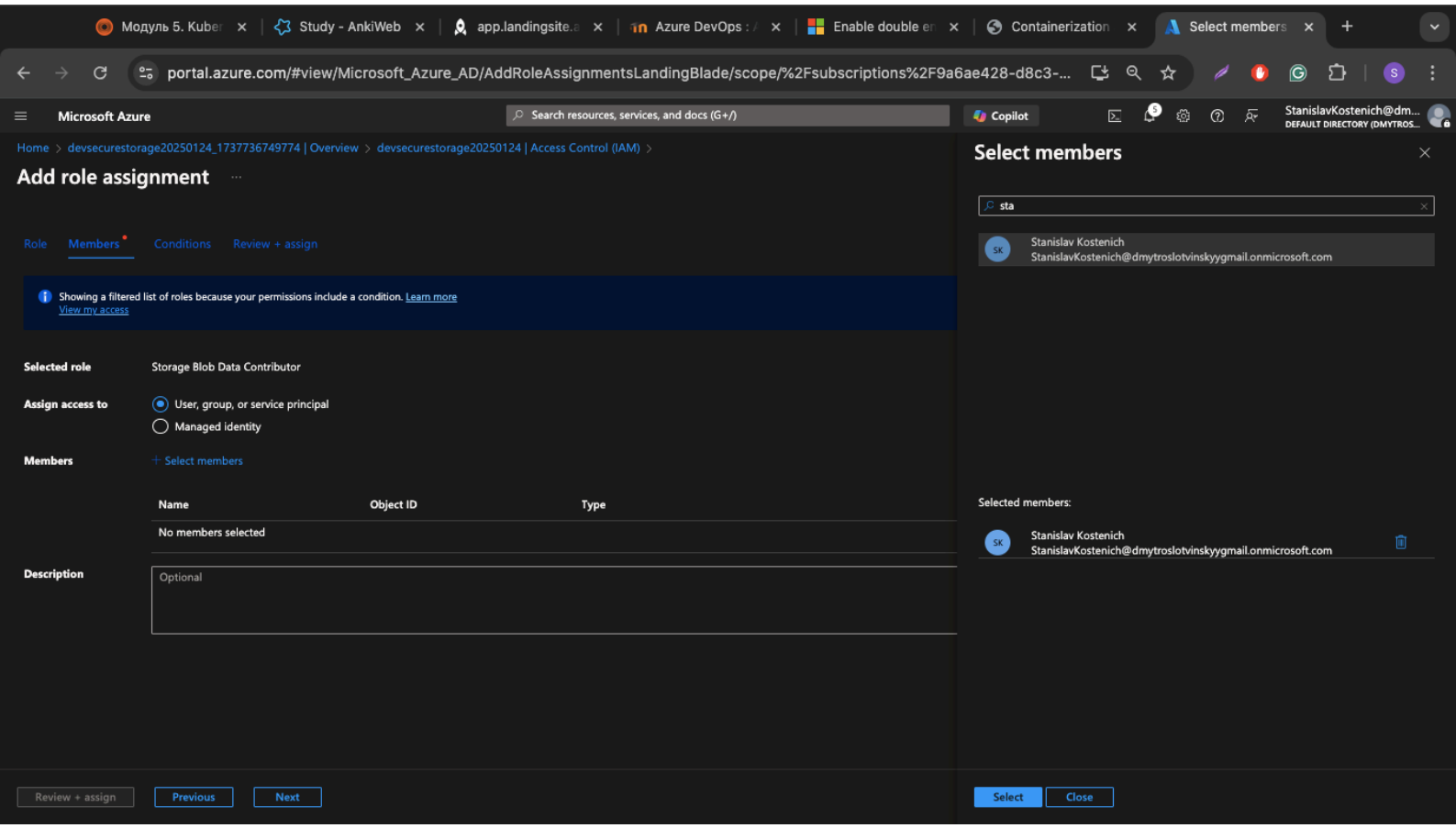
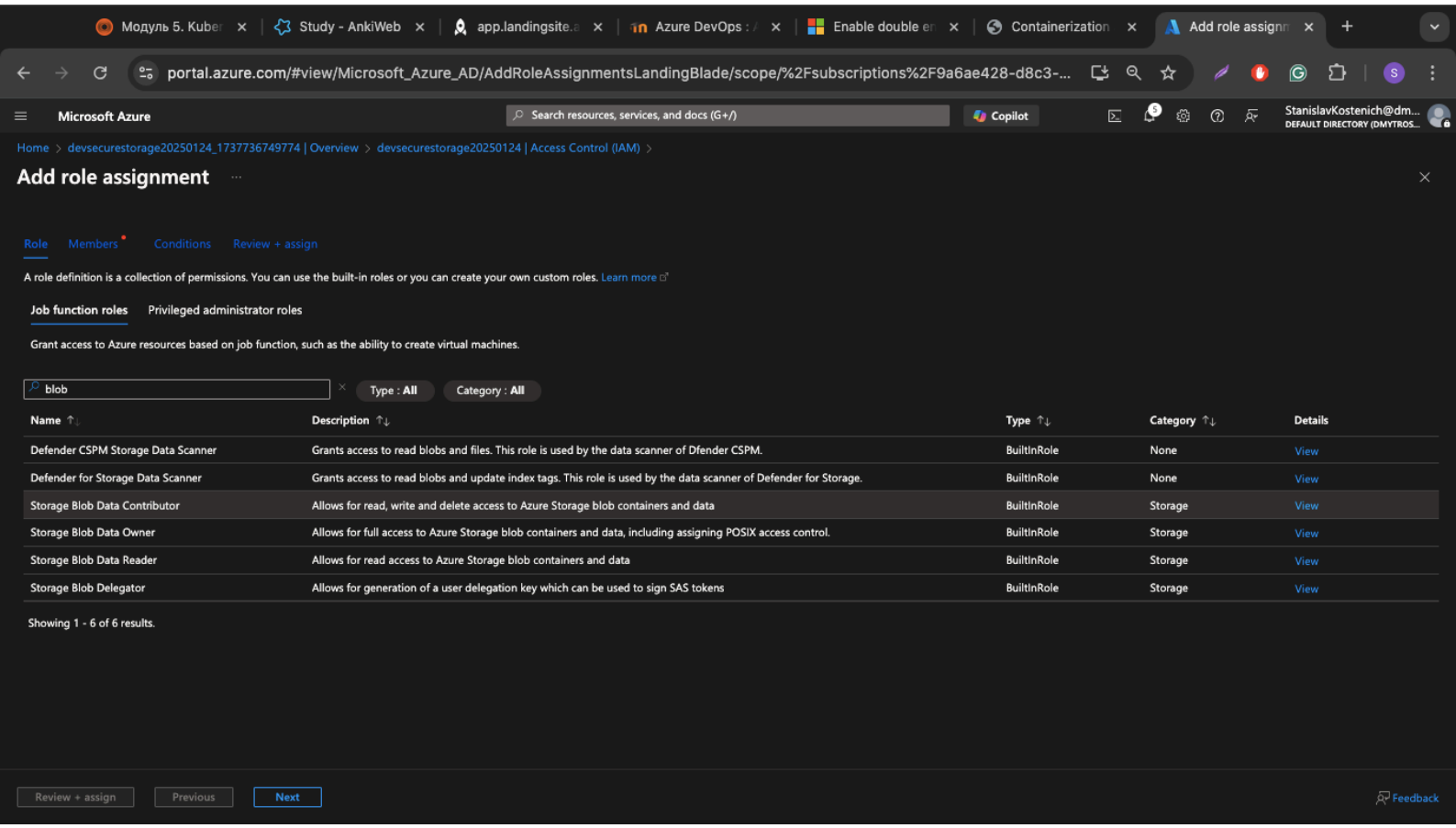
Storage Mover
Partner solutions
Data storage
Containers
File shares
Queues
Tables
Security + networking
Data management
Settings
Monitoring
Monitoring (classic)
Add
Download role assignments
Edit columns
Refresh
Delete
Check access
Role assignments
Roles
Deny assignments
Classic administrator
My access
View my level of access to this resource.
View my access
Check access
Review the level of access a user, group, service principal, or managed identity has to this resource.
Check access
Grant access to this resource
Grant access to resources by assigning a role.
Learn more
Add role assignment
View access to this resource
View the role assignments that grant acc
to this and other resources.
Learn more
View
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.
https://portal.azure.com/#


Модуль 5. Kuber
Study - AnkiWeb
app.landingsite.a
Azure DevOps : /
Enable double en
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 > devsecurerestorage20250124_1737736749774 | Overview > devsecurerestorage20250124 | Access Control (IAM) >
Add role assignment
Role
Members
Conditions
Review + assign
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
Review + assign
Previous
Next
Select members
sta
SK
Stanislav Kostenich
StanislavKostenich@dmytroslotvinskyygmail.onmicrosoft.com
Selected members:
SK
Stanislav Kostenich
StanislavKostenich@dmytroslotvinskyygmail.onmicrosoft.com
Select
Close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Add role assignm
portal.azure.com/#view/Microsoft_Azure_AD/AddRoleAssignmentsLandingBlade/scope/%2Fsubscriptions%2F9a6ae428-d8c3-...
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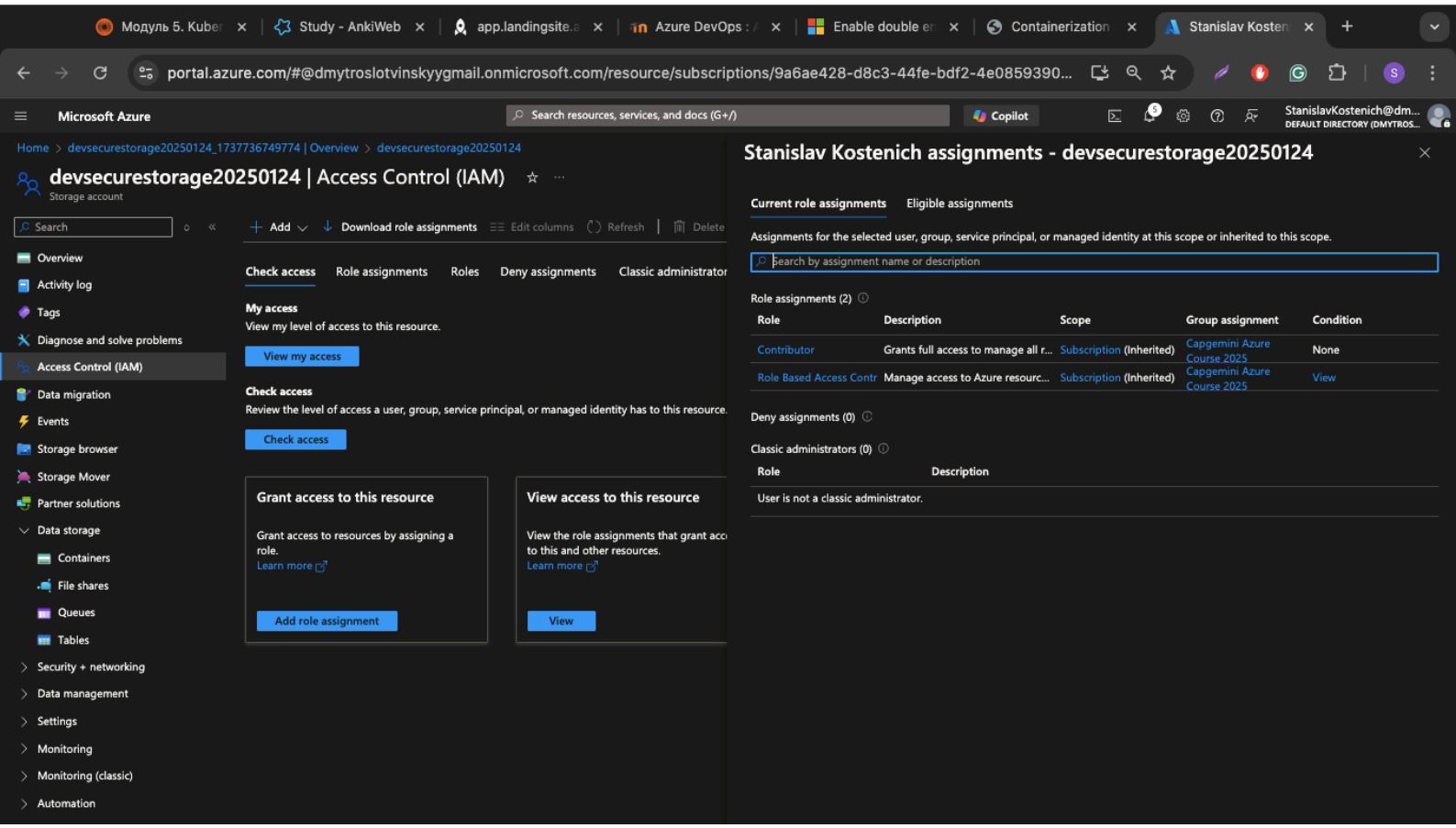
DEFAULT DIRECTORY (DMYTROS...
Home > devsecurestorage20250124_1737736749774 | Overview > devsecurestorage20250124 | Access Control (IAM) >
Add role assignment
Role
Members
Conditions
Review + assign
A role definition is a collection of permissions. You can use the built-in roles or you can create your 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.
Review + assign
Previous
Next
Feedback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Azure DevOps : /
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Containerization
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portal.azure.com/#@dmytroslotvinskyygmail.onmicrosoft.com/resource/subscriptions/9a6ae428-d8c3-44fe-bdf2-4e0859390...
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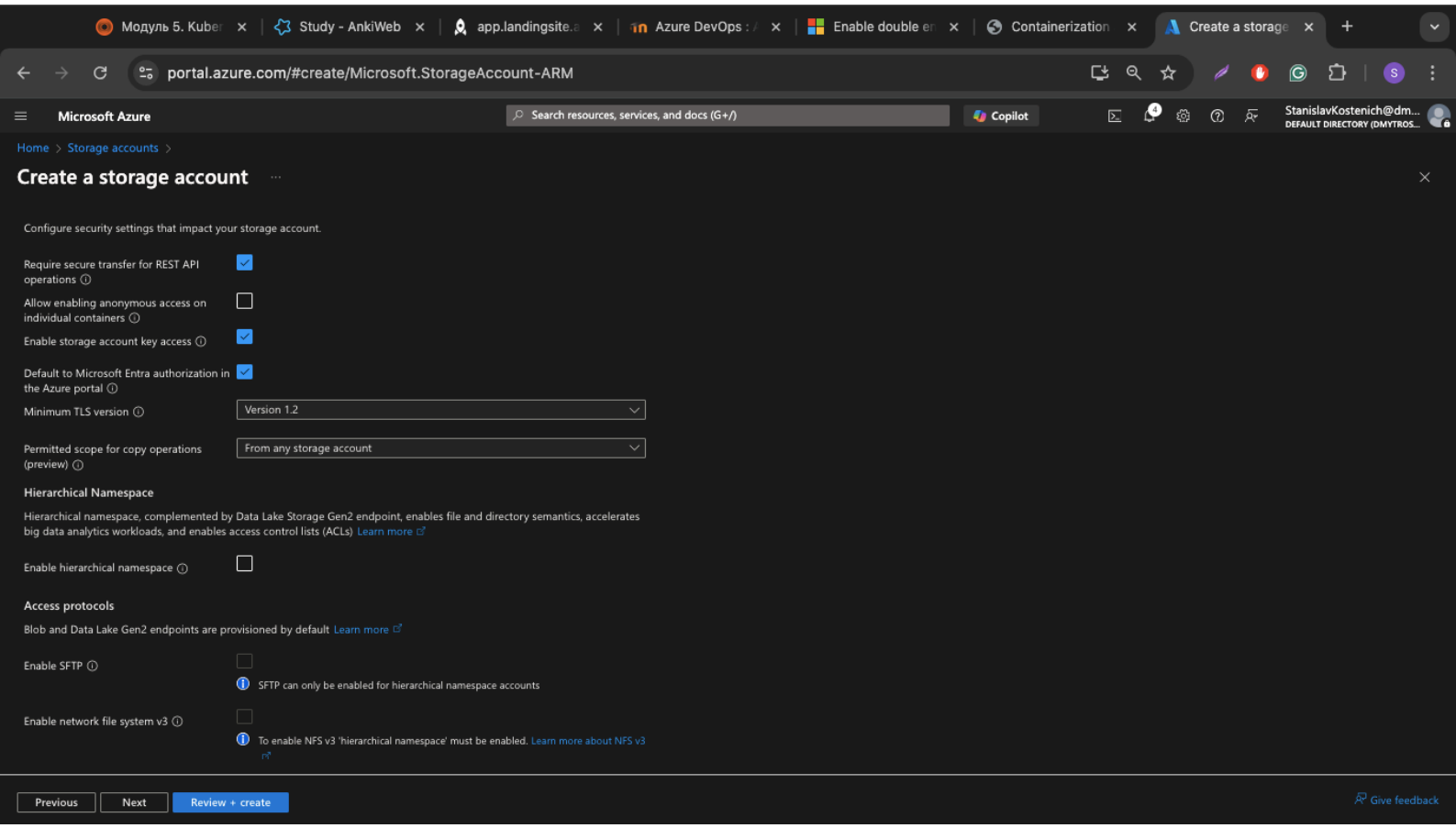
DEFAULT DIRECTORY (DMYTROS...
Home > devsecurestorage20250124_1737736749774 | Overview > devsecurestorage20250124
devsecurestorage20250124 | Access Control (IAM)
Storage account
Search
Overview
Activity log
Tags
Diagnose and solve problems
Access Control (IAM)
Data migration
Events
Storage browser
Storage Mover
Partner solutions
Data storage
Containers
File shares
Queues
Tables
Security + networking
Data management
Settings
Monitoring
Monitoring (classic)
Automation
Add
Download role assignments
Edit columns
Refresh
Delete
Check access
Role assignments
Roles
Deny assignments
Classic administrator
My access
View my level of access to this resource.
View my access
Check access
Review the level of access a user, group, service principal, or managed identity has to this resource.
Check access
Grant access to this resource
Grant access to resources by assigning a role.
Learn more
Add role assignment
View access to this resource
View the role assignments that grant acc
to this and other resources.
Learn more
View
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 (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.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Azure DevOps : /
Enable double en
Containerization
Create a storage
portal.azure.com/#create/Microsoft.StorageAccount-ARM
Microsoft Azure
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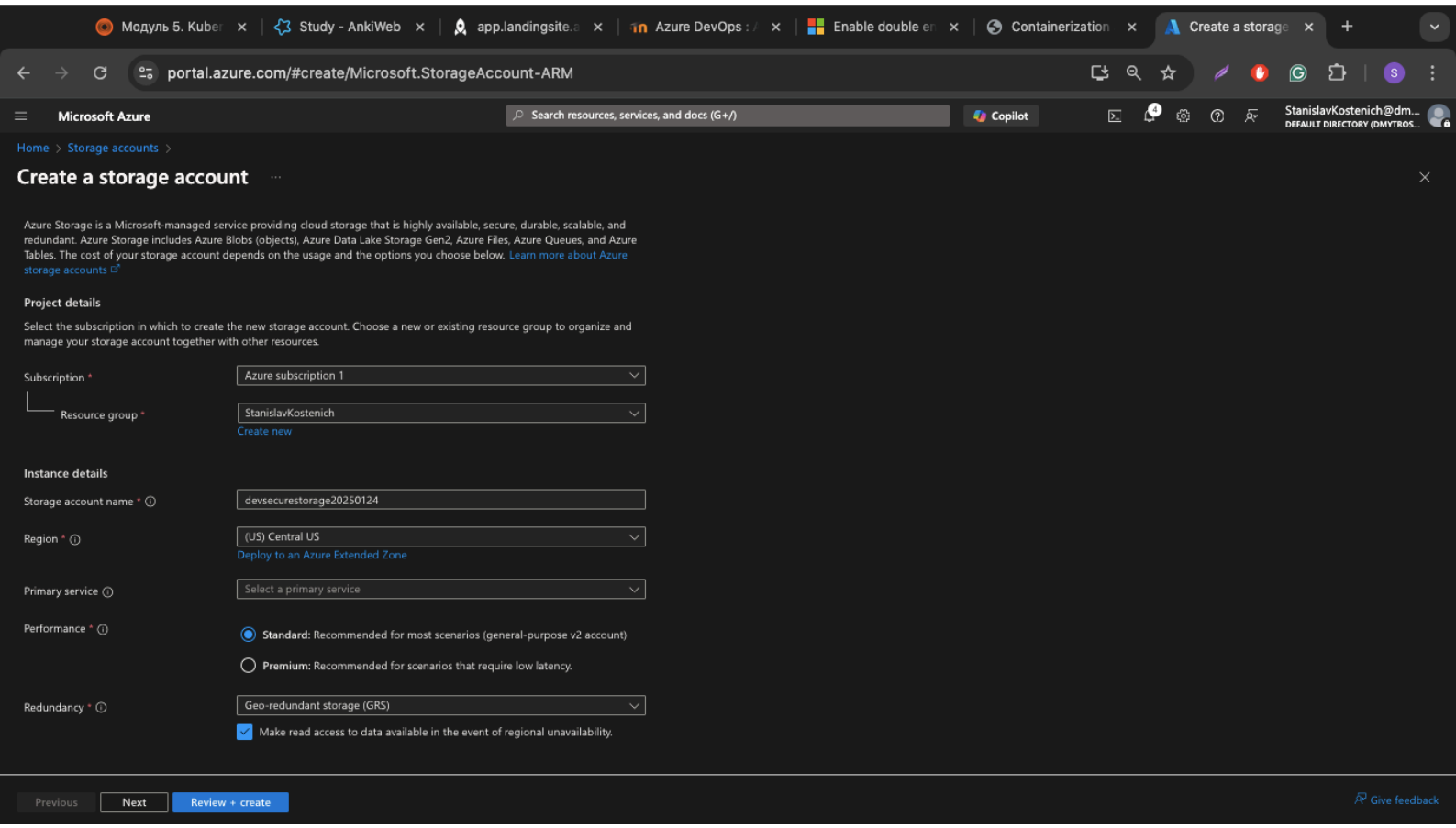
Home > Storage accounts >
Create a storage account
Configure security settings that impact your storage account.
Require secure transfer for REST API operations
Allow enabling anonymous access on individual containers
Enable storage account key access
Default to Microsoft Entra authorization in the Azure 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
Previous
Next
Review + create
Give feedback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Containerization
Create a storage
portal.azure.com/#create/Microsoft.StorageAccount-ARM
Microsoft Azure
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Home > Storage accounts >
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.
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