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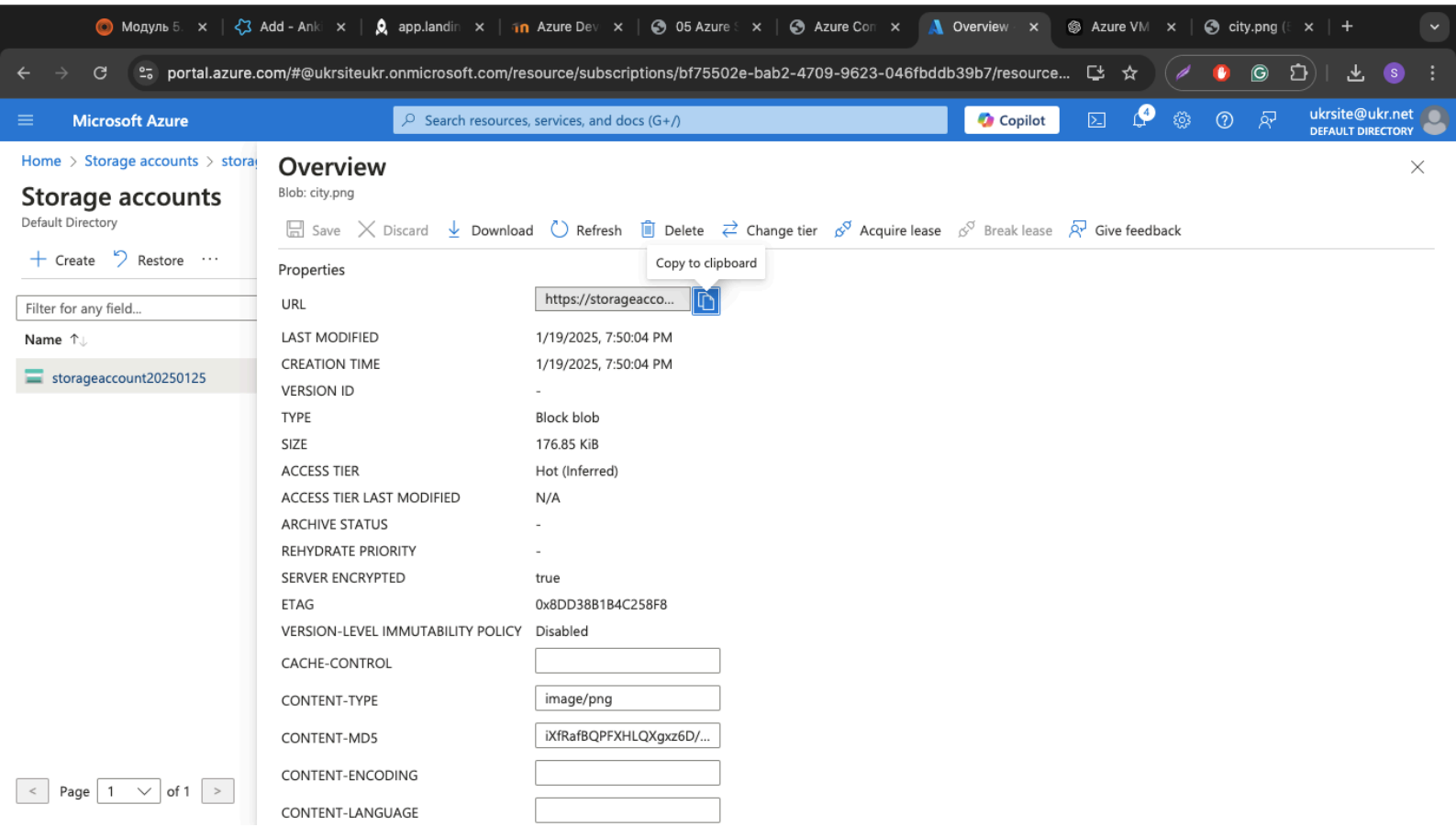
05 Azure Storage and Databases Practical tasks.pdf 1 / 5 175%

Practical Task 1: Upload and Retrieve Files with Azure Blob Storage

Use Azure Blob Storage for storing and retrieving files.

Requirements:

1. Create a new storage account in Azure.
2. Set up a Blob container named "my-container" with public access.
3. Upload a sample text file to the Blob container using the Azure portal.
4. Download the uploaded file to verify successful retrieval.
5. Use Azure Storage Explorer to manage and view blobs in your container.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portal.azure.com/#@ukrsiteukr.onmicrosoft.com/resource/subscriptions/bf75502e-bab2-4709-9623-046fbddb39b7/resource...
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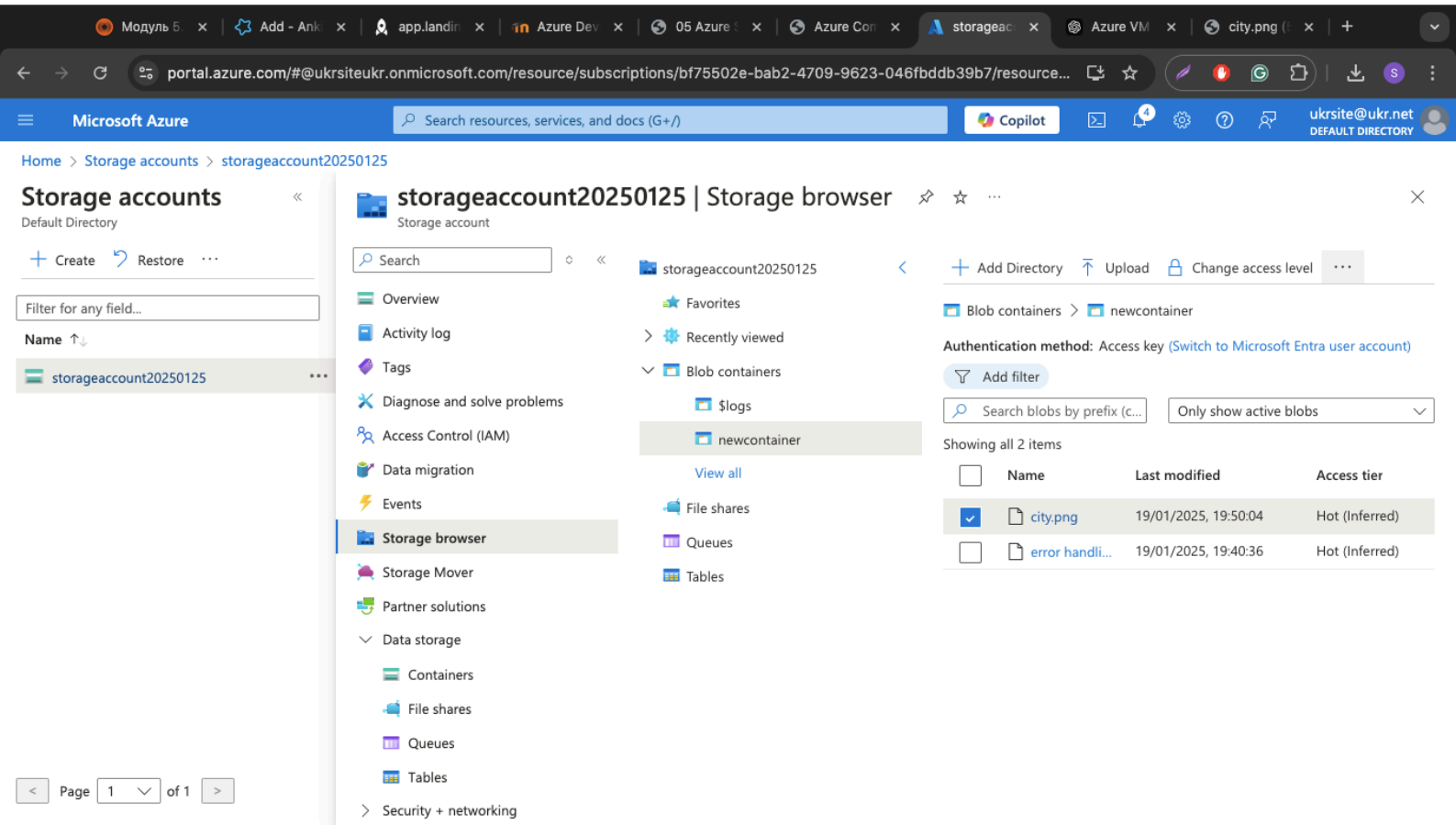
DEFAULT DIRECTORY
Home > Storage accounts > stora
Storage accounts
Default Directory
Create
Restore
Filter for any field...
Name
storageaccount20250125
Page 1 of 1
Overview
Blob: city.png
Save
Discard
Download
Refresh
Delete
Change tier
Acquire lease
Break lease
Give feedback
Properties
Copy to clipboard
URL https://storageacco...
LAST MODIFIED 1/19/2025, 7:50:04 PM
CREATION TIME 1/19/2025, 7:50:04 PM
VERSION ID -
TYPE Block blob
SIZE 176.85 KiB
ACCESS TIER Hot (Inferred)
ACCESS TIER LAST MODIFIED N/A
ARCHIVE STATUS -
REHYDRATE PRIORITY -
SERVER ENCRYPTED true
ETAG 0x8DD38B1B4C258F8
VERSION-LEVEL IMMUTABILITY POLICY Disabled
CACHE-CONTROL
CONTENT-TYPE image/png
CONTENT-MD5 iXfRafBQPFXHLQXgxz6D/...
CONTENT-ENCODING
CONTENT-LANGUAGE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Home > Storage accounts > storageaccount20250125
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Create
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Filter for any field...
Name
storageaccount20250125
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storageaccount20250125 | Storage browser
Storage account
Search
Overview
Activity log
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Diagnose and solve problems
Access Control (IAM)
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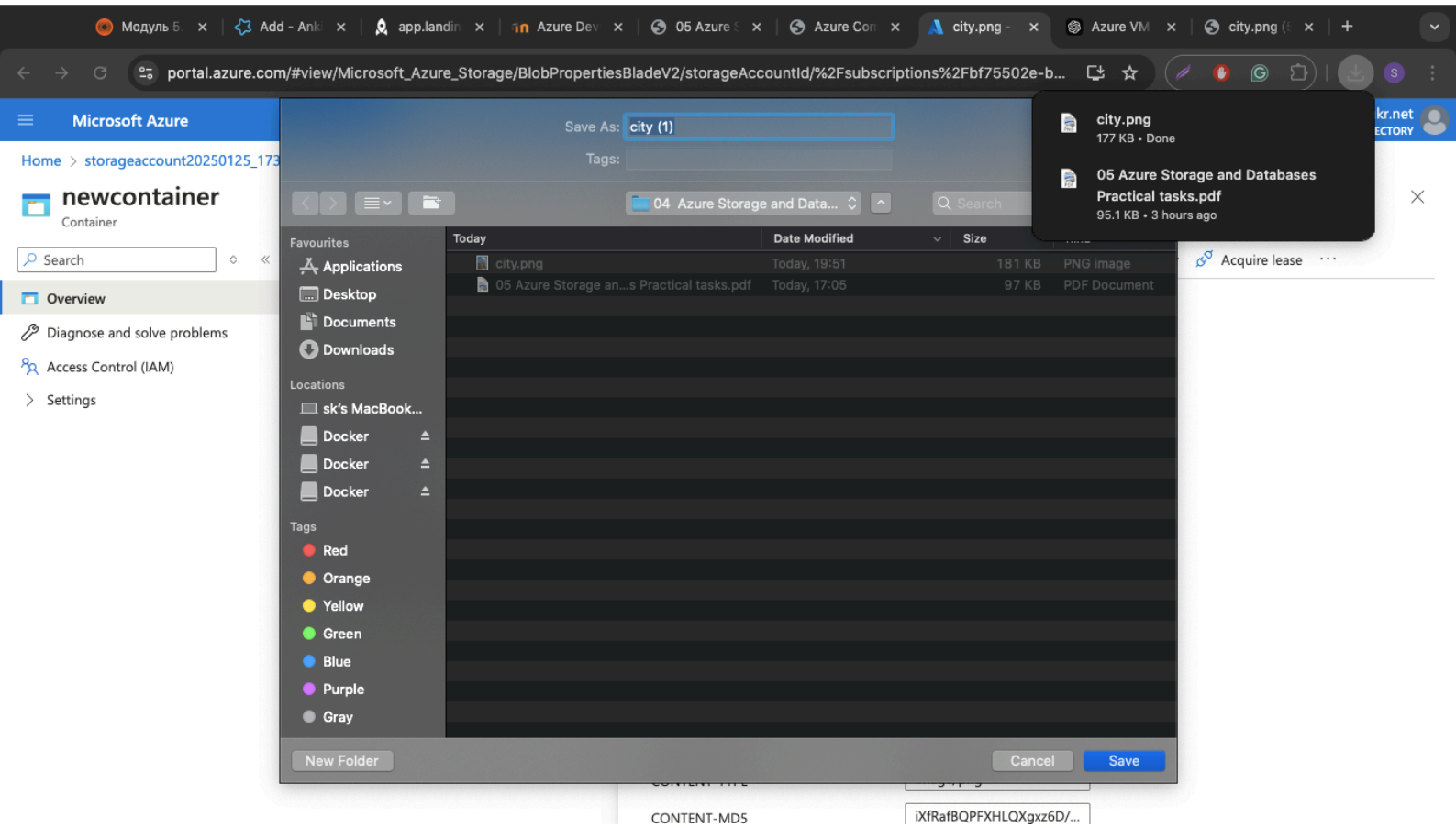
Data storage
Containers
File shares
Queues
Tables
Security + networking
storageaccount20250125
Favorites
Recently viewed
Blob containers
$logs
newcontainer
View all
File shares
Queues
Tables
Add Directory
Upload
Change access level
Blob containers > newcontainer
Authentication method: Access key (Switch to Microsoft Entra user account)
Add filter
Search blobs by prefix (c...
Only show active blobs
Showing all 2 items
Name
Last modified
Access tier
city.png
19/01/2025, 19:50:04
Hot (Inferred)
error handli...
19/01/2025, 19:40:36
Hot (Inferred)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portal.azure.com/#view/Microsoft_Azure_Storage/BlobPropertiesBladeV2/storageAccountId/%2Fsubscriptions%2Fbf75502e-b...
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Search
Overview
Diagnose and solve problems
Access Control (IAM)
Settings
Acquire lease
Save As: city (1)
Tags:
04 Azure Storage and Data...
Search
Favourites
Applications
Desktop
Documents
Downloads
Locations
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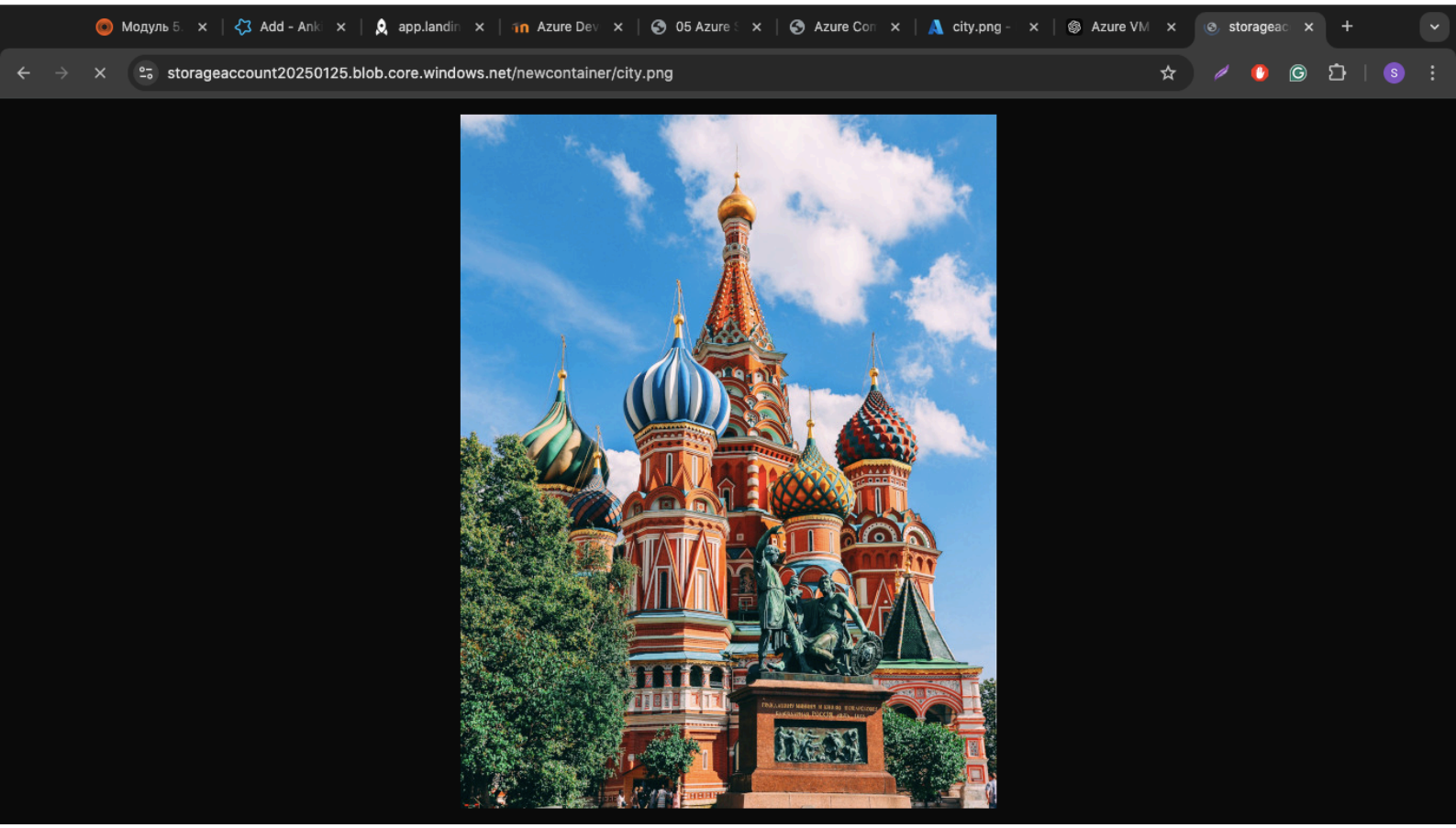
Docker
Docker
Docker
Tags
Red
Orange
Yellow
Green
Blue
Purple
Gray
Today
Date Modified
Size
city.png
Today, 19:51
181 KB
PNG image
05 Azure Storage an...s Practical tasks.pdf
Today, 17:05
97 KB
PDF Document
New Folder
Cancel
Save
city.png
177 KB • Done
05 Azure Storage and Databases Practical tasks.pdf
95.1 KB • 3 hours ago
CONTENT-MD5
iXfRafBQPFXHLQXgxz6D/...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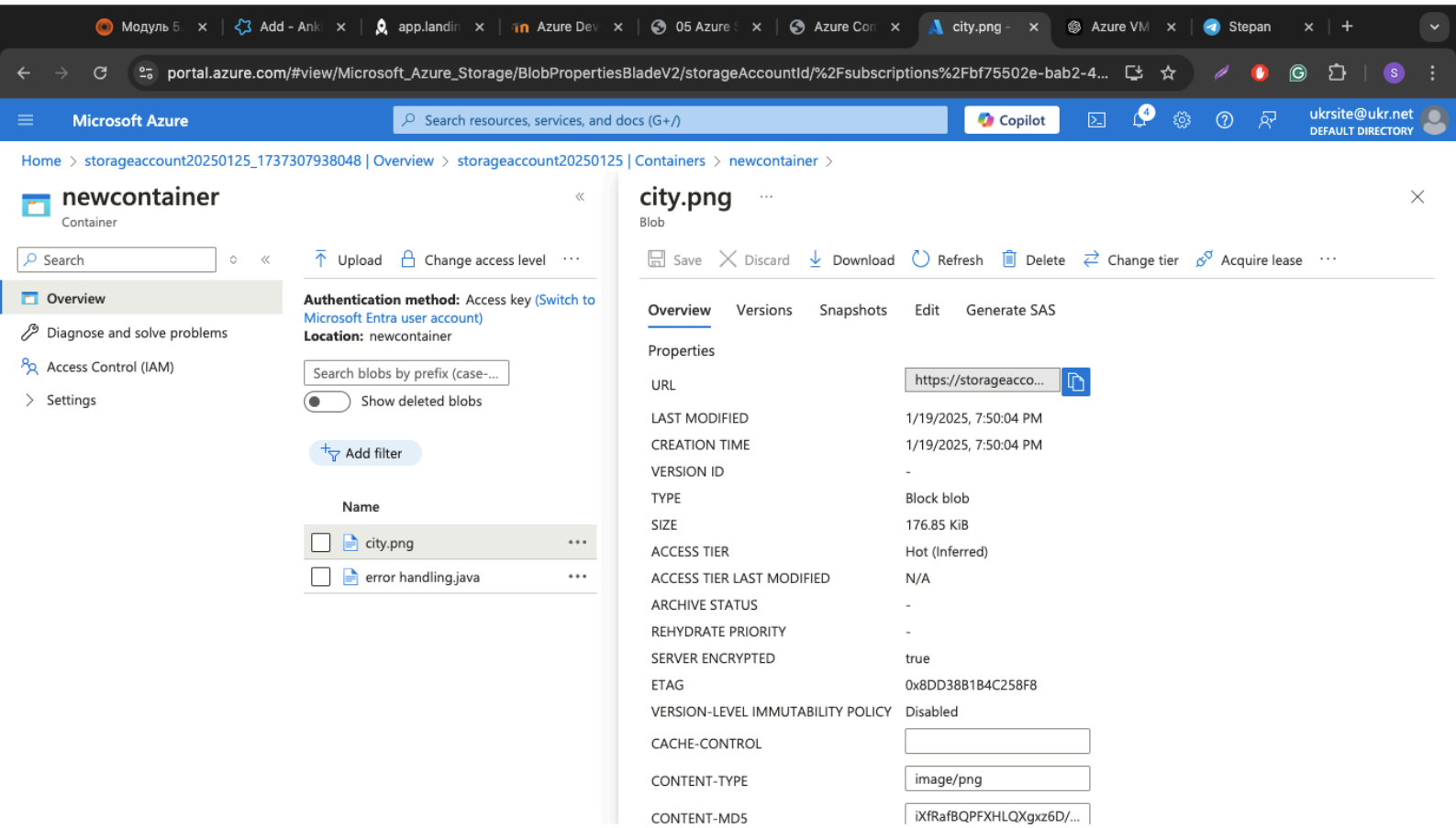
storageaccount20250125.blob.core.windows.net/newcontainer/city.png


Модуль 5
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portal.azure.com/#view/Microsoft_Azure_Storage/BlobPropertiesBladeV2/storageAccountId/%2Fsubscriptions%2Fbf75502e-bab2-4...
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DEFAULT DIRECTORY
Home > storageaccount20250125_1737307938048 | Overview > storageaccount20250125 | Containers > newcontainer >
newcontainer
Container
Search
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Diagnose and solve problems
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Settings
Upload
Change access level
Authentication method: Access key (Switch to Microsoft Entra user account)
Location: newcontainer
Search blobs by prefix (case-...
Show deleted blobs
Add filter
Name
city.png
error handling.java
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Blob
Save
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Download
Refresh
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Change tier
Acquire lease
Overview
Versions
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Edit
Generate SAS
Properties
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https://storageacco...
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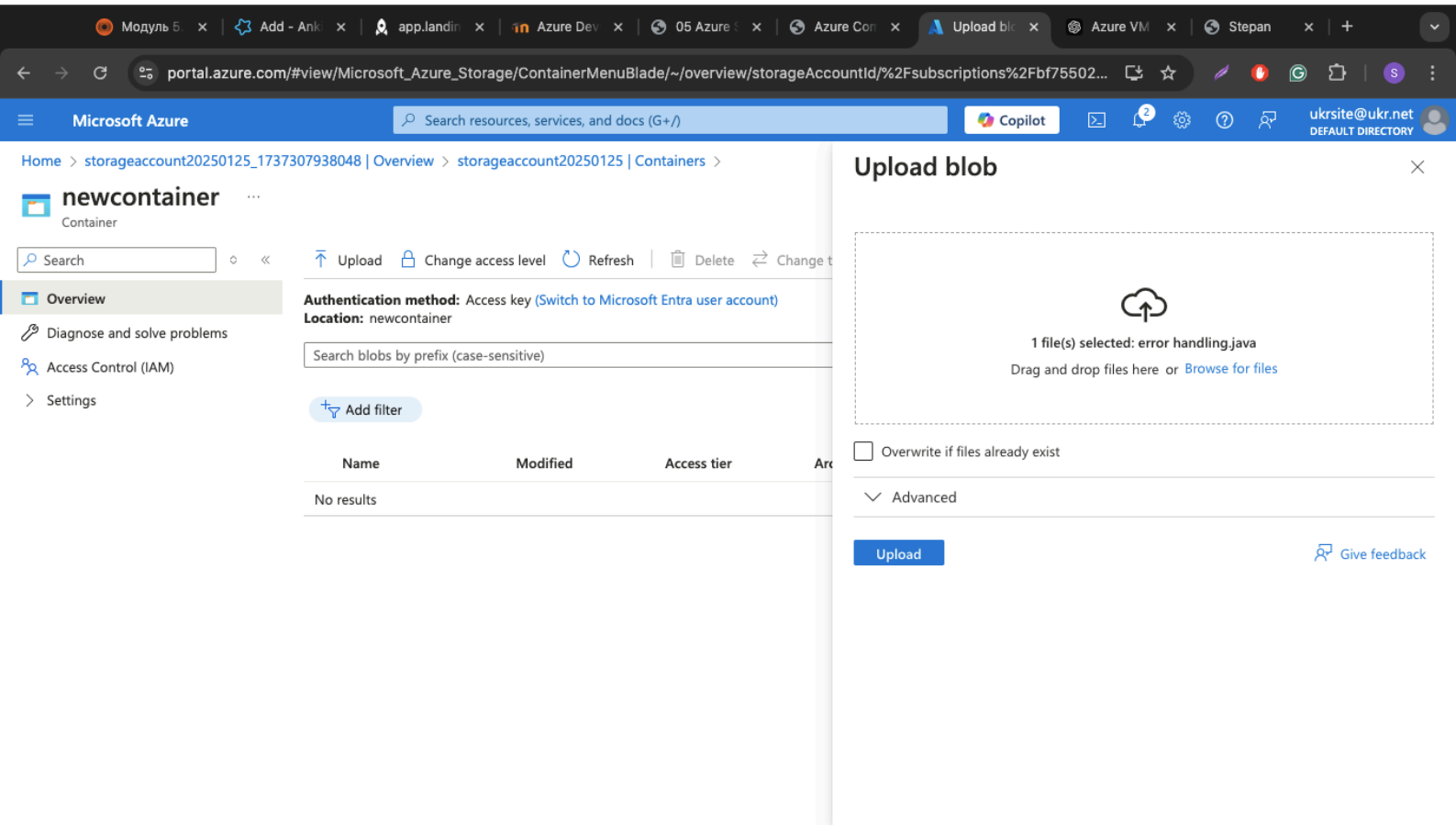
1/19/2025, 7:50:04 PM
CREATION TIME
1/19/2025, 7:50:04 PM
VERSION ID
-
TYPE
Block blob
SIZE
176.85 KiB
ACCESS TIER
Hot (Inferred)
ACCESS TIER LAST MODIFIED
N/A
ARCHIVE STATUS
-
REHYDRATE PRIORITY
-
SERVER ENCRYPTED
true
ETAG
0x8DD38B1B4C258F8
VERSION-LEVEL IMMUTABILITY POLICY
Disabled
CACHE-CONTROL
CONTENT-TYPE
image/png
CONTENT-MD5
iXfRafBQPFXHLQXgxz6D/...


Модуль 5
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portal.azure.com/#view/Microsoft_Azure_Storage/ContainerMenuBlade/~/overview/storageAccountId/%2Fsubscriptions%2Fbf75502...
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DEFAULT DIRECTORY
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Upload
Change access level
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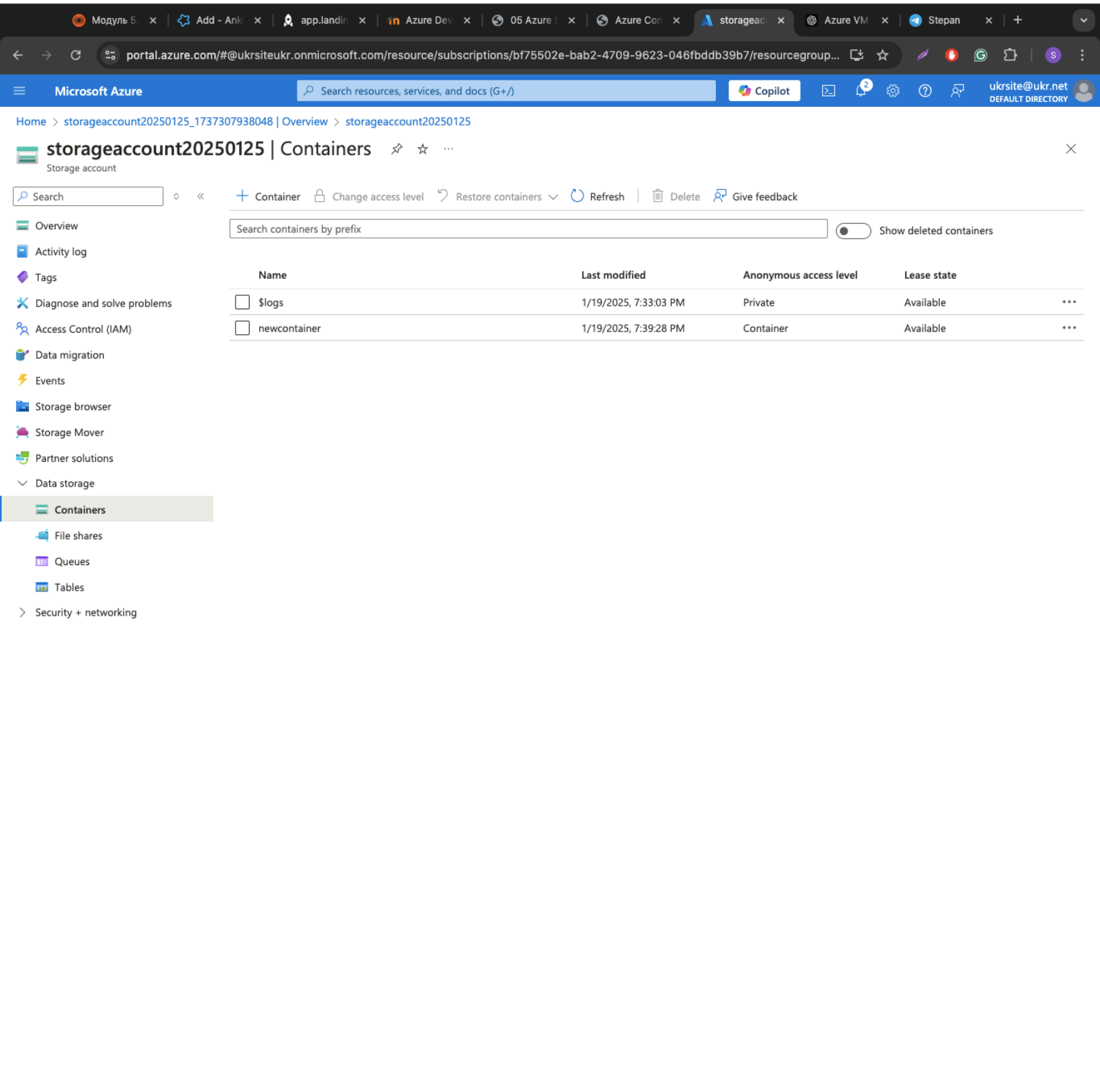
Delete
Change t
Authentication method: Access key (Switch to Microsoft Entra user account)
Location: newcontainer
Search blobs by prefix (case-sensitive)
Add filter
Name
Modified
Access tier
No results
Upload blob
1 file(s) selected: error handling.java
Drag and drop files here or Browse for files
Overwrite if files already exist
Advanced
Upload
Give feedback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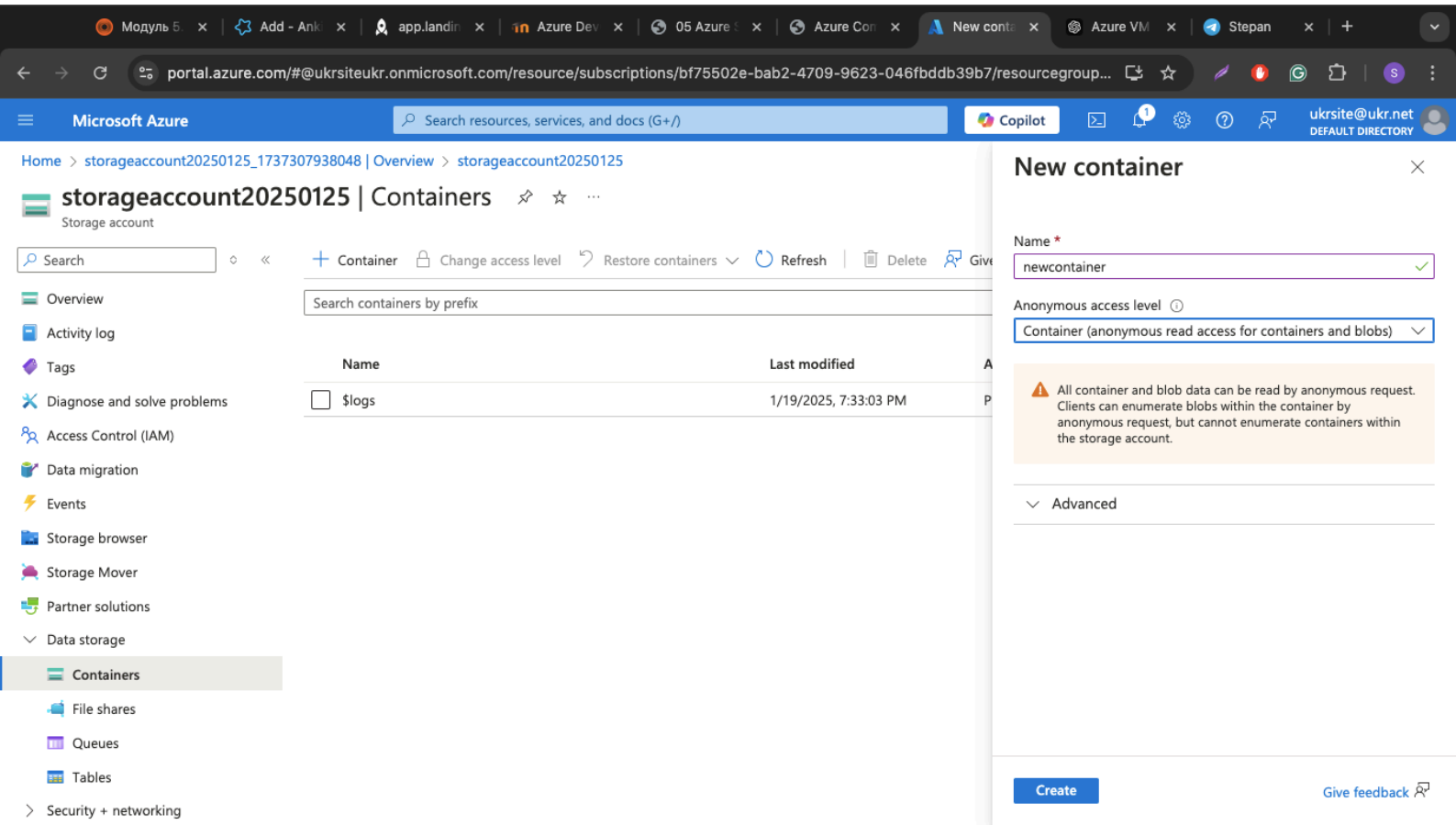
Give feedback
Search containers by prefix
Show deleted containers
Name
Last modified
Anonymous access level
Lease state
$logs
1/19/2025, 7:33:03 PM
Private
Available
newcontainer
1/19/2025, 7:39:28 PM
Container
Available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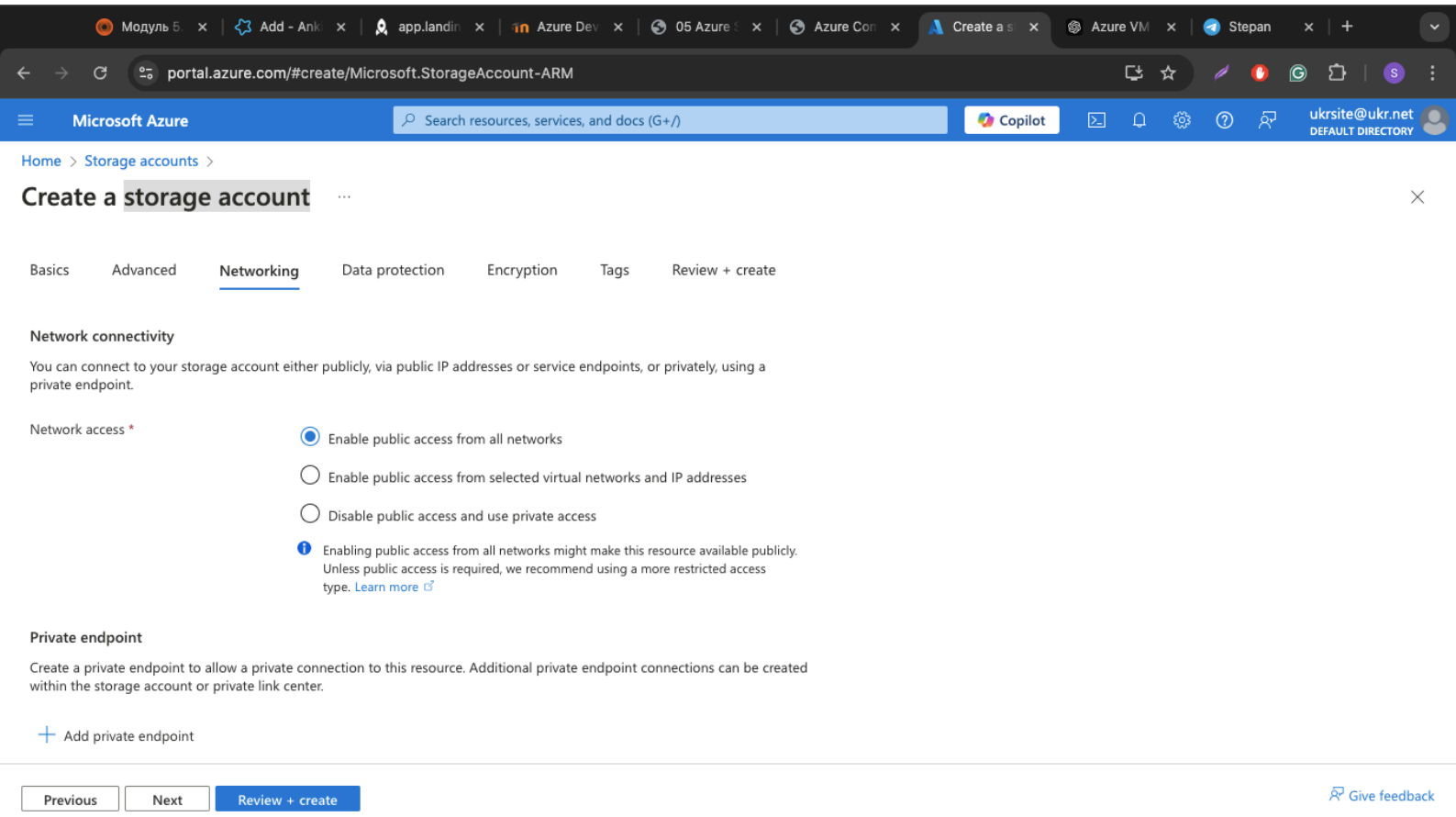
Container
Change access level
Restore containers
Refresh
Delete
Search containers by prefix
Name
Last modified
$logs
1/19/2025, 7:33:03 PM
New container
Name *
newcontainer
Anonymous access level
Container (anonymous read access for containers and blobs)
All container and blob data can be read by anonymous request. Clients can enumerate blobs within the container by anonymous request, but cannot enumerate containers within the storage account.
Advanced
Create
Give feedback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portal.azure.com/#create/Microsoft.StorageAccount-ARM
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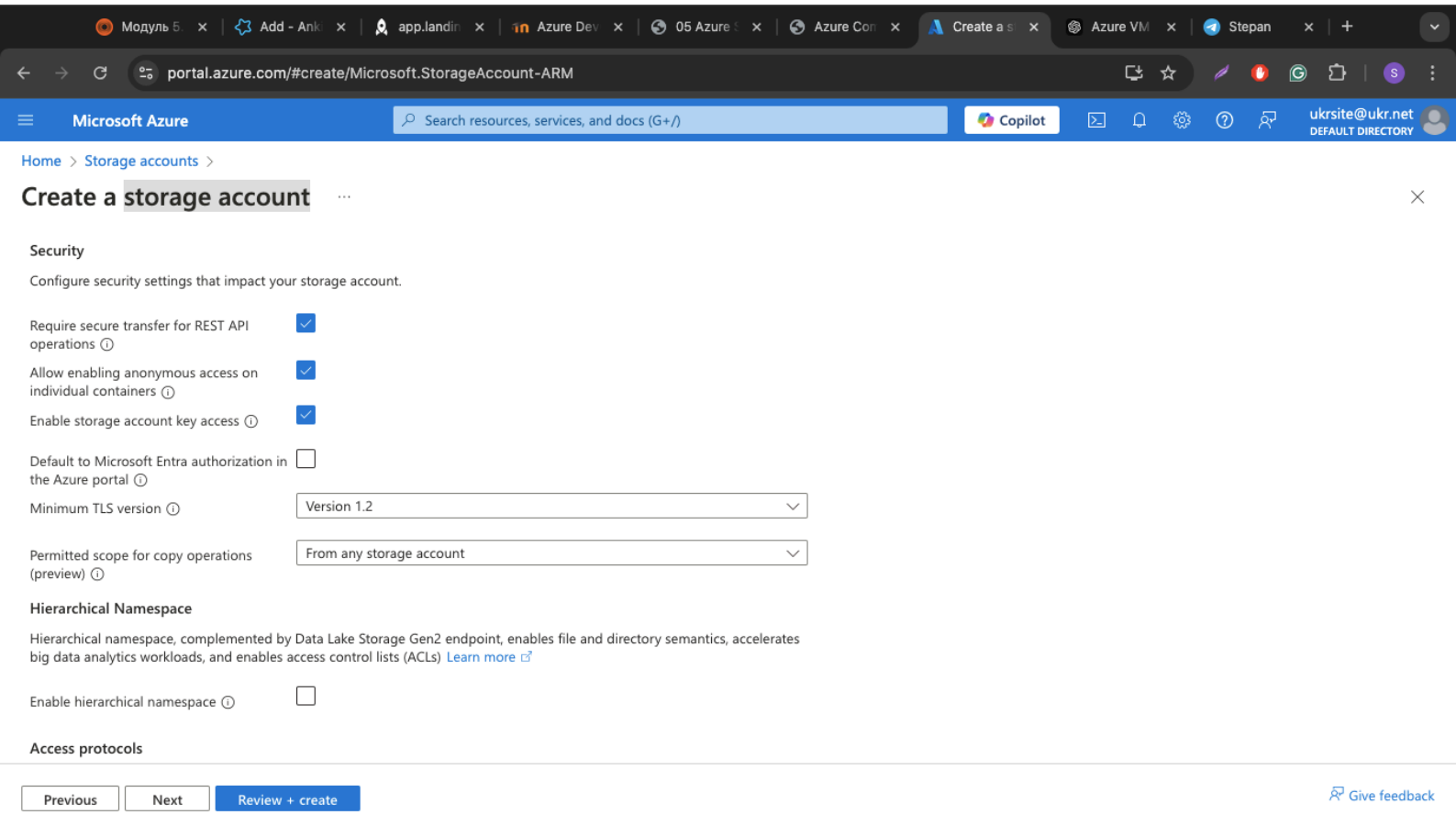
Home > Storage accounts >
Create a storage account
Basics
Advanced
Networking
Data protection
Encryption
Tags
Review + create
Network connectivity
You can connect to your storage account either publicly, via public IP addresses or service endpoints, or privately, using a private endpoint.
Network access *
Enable public access from all networks
Enable public access from selected virtual networks and IP addresses
Disable public access and use private access
Enabling public access from all networks might make this resource available publicly. Unless public access is required, we recommend using a more restricted access type. Learn more
Private endpoint
Create a private endpoint to allow a private connection to this resource. Additional private endpoint connections can be created within the storage account or private link center.
Add private endpoint
Previous
Next
Review + create
Give feedback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portal.azure.com/#create/Microsoft.StorageAccount-ARM
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DEFAULT DIRECTORY
Home > Storage accounts >
Create a storage account
Security
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
Previous
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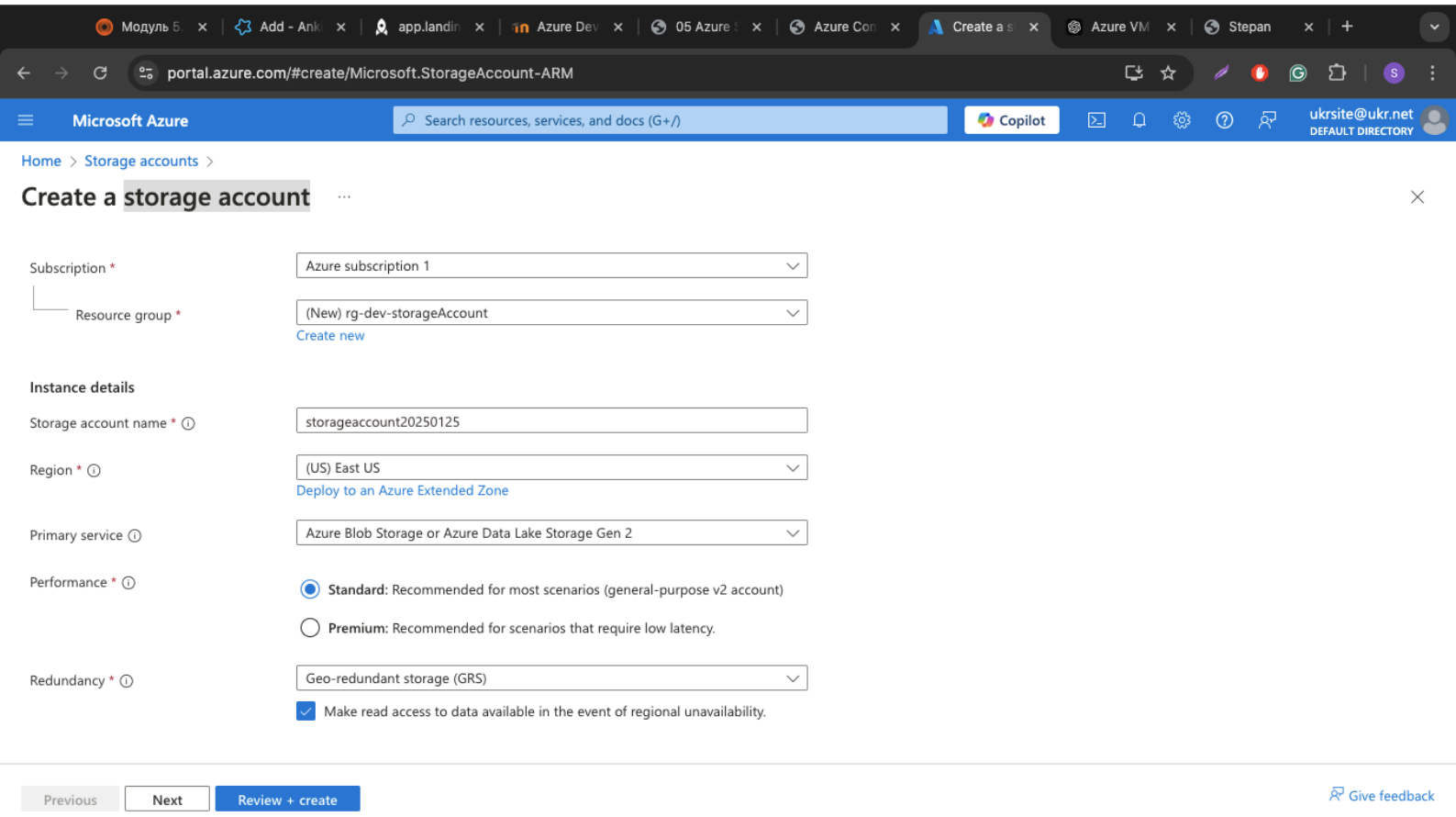
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portal.azure.com/#create/Microsoft.StorageAccount-ARM
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DEFAULT DIRECTORY
Home > Storage accounts >
Create a storage account
Subscription *
Azure subscription 1
Resource group *
(New) rg-dev-storageAccount
Create new
Instance details
Storage account name *
storageaccount20250125
Region *
(US) East US
Deploy to an Azure Extended Zone
Primary service
Azure Blob Storage or Azure Data Lake Storage Gen 2
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.
Previous
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Give feedback