Manage Azure Storage

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Task 1: Create and configure a storage account.

Storage accounts:

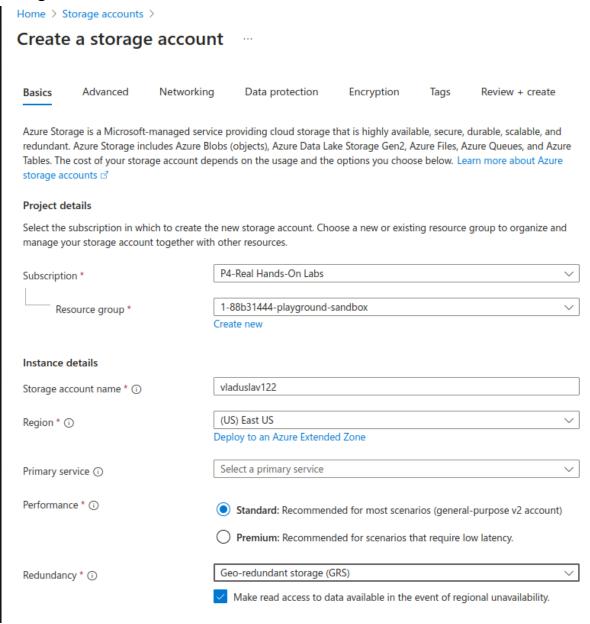


Figure 1. Creating a storage account.

Home > Storage accounts >	n+
Create a storage accour	
Security	
Configure security settings that impact you	ir storage account.
Require secure transfer for REST API operations ①	
Allow enabling anonymous access on individual containers ①	
Enable storage account key access ①	
Default to Microsoft Entra authorization in the Azure portal ①	
Minimum TLS version ①	Version 1.2
Permitted scope for copy operations (preview) ①	From any storage account
Hierarchical Namespace	
Hierarchical namespace, complemented by big data analytics workloads, and enables a	Data Lake Storage Gen2 endpoint, enables file and directory semantics, accelerates access control lists (ACLs) Learn more 🗹
Enable hierarchical namespace ①	
Access protocols	
Blob and Data Lake Gen2 endpoints are pro	ovisioned by default Learn more 🗹
Enable SFTP ①	SFTP can only be enabled for hierarchical namespace accounts
Enable network file system v3 ①	To enable NFS v3 'hierarchical namespace' must be enabled. Learn more about NFS v3

Figure 2. Basics.

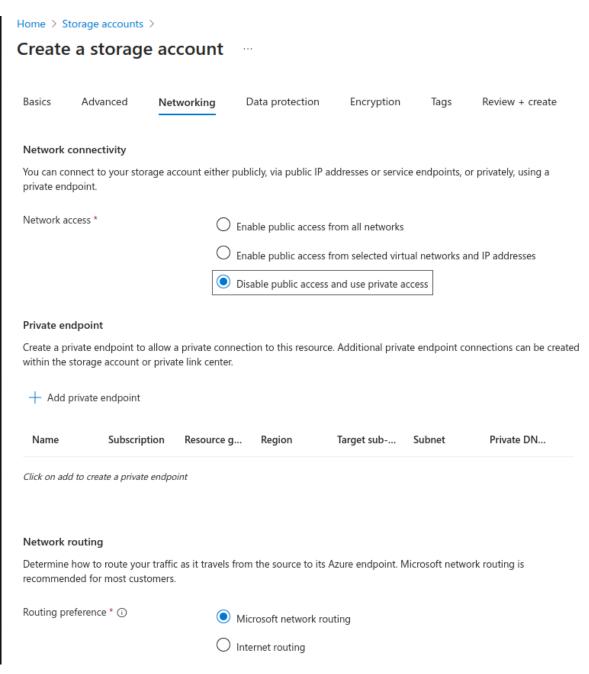


Figure 3. Networking.

Home > Storage accounts >							
Create a storage account							
Basi	CS	Advanced	Networking	Data protection	Encryption	Tags	Review + create
Reco	overy						
Prote	ect your	data from accide	ntal or erroneous de	eletion or modification.			
Enable point-in-time restore for containers Use point-in-time restore to restore one or more containers to an earlier state. If point-in-time restore is enabled, then versioning, change feed, and blob soft delete must also be enabled. Learn more							
Enable soft delete for blobs Soft delete enables you to recover blobs that were previously marked for deletion, including blobs that were overwritten. Learn more **The control of the						re overwritten. Learn	
	Days t	o retain deleted b	lobs (i)	7			
~	Soft de	soft delete for co lete enables you to o retain deleted co	recover containers th	nat were previously marked	for deletion. Learn	more ♂	
<u> </u>	Soft de	soft delete for file lete enables you to o retain deleted fil	recover file shares th	at were previously marked	for deletion. Learn	more ⊡	
Tracking Manage versions and keep track of changes made to your blob data.							
■ Enable versioning for blobs Use versioning to automatically maintain previous versions of your blobs. Learn more							
Consider your workloads, their impact on the number of versions created, and the resulting costs. Optimize costs by automatically managing the data lifecycle. Learn more 3							

Figure 4. Data protection.

Home > Storage accounts >					
Create a storage accor	unt ···				
Basics Advanced Network	king Data protection	Encryption	Tags	Review + create	
Encryption type * ①	 Microsoft-managed k 	eys (MMK)			
	Customer-managed k	eys (CMK)			
Enable support for customer-managed keys ①	Blobs and files only				
	All service types (blob	os, files, tables, and	queues)		
	A This option cannot be ch	nanged after this store	age account i	is created.	
Enable infrastructure encryption ①	$\overline{\checkmark}$				

Figure 5. Encryption.

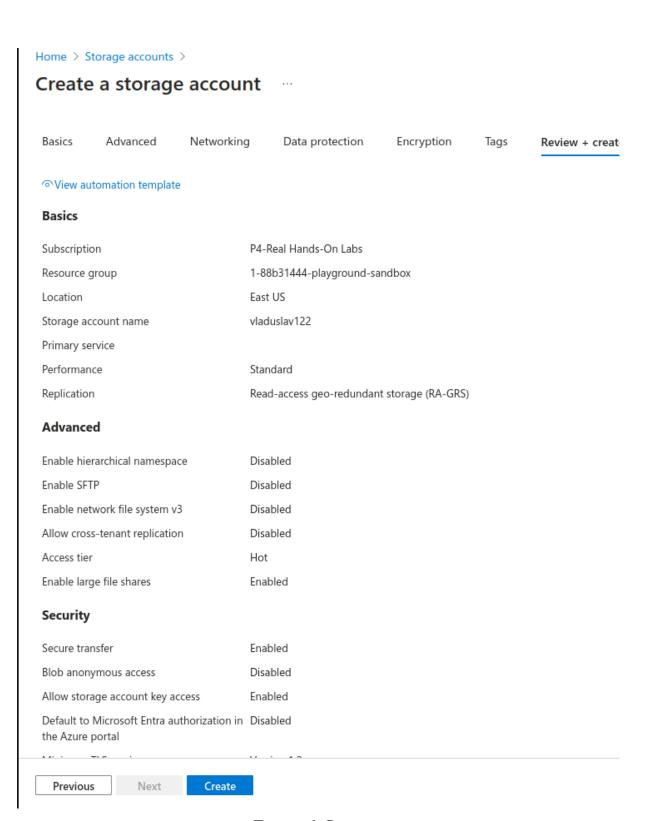


Figure 6. Review.

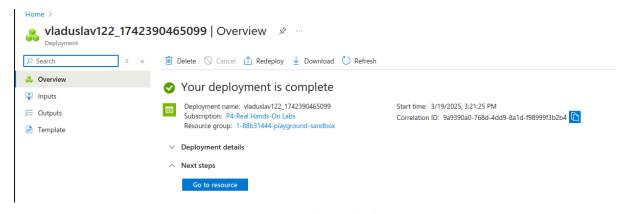


Figure 7. Complete deployment.

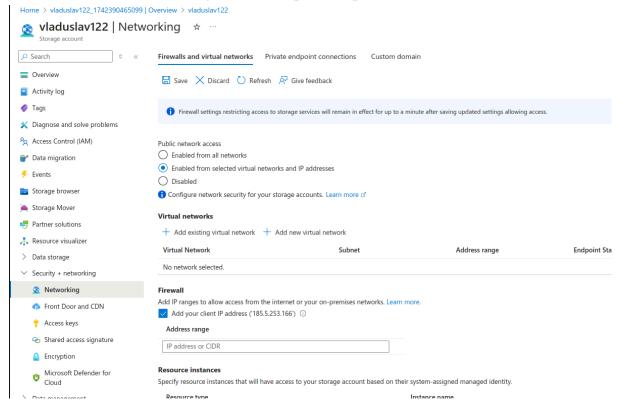


Figure 8. Networking in a storage account.

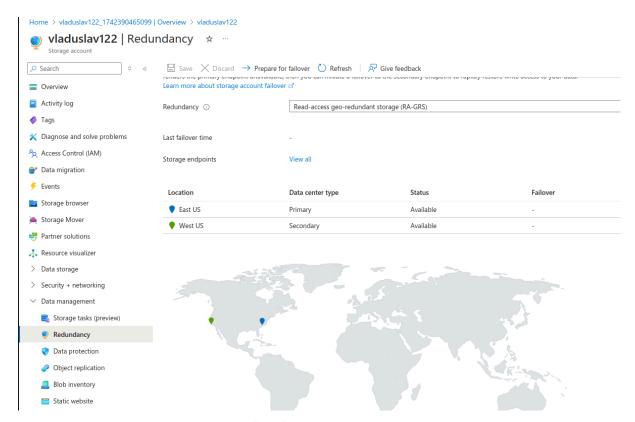


Figure 9. Redundancy in a storage account.

Add a rule:

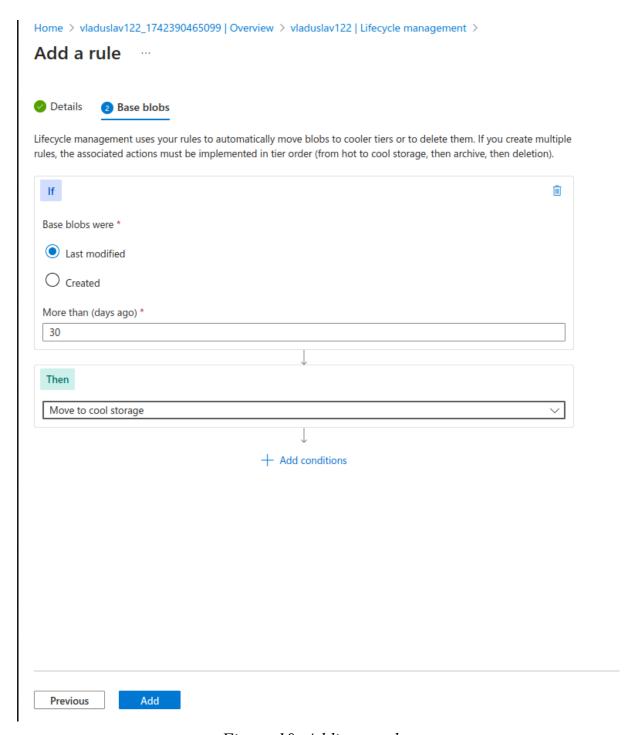


Figure 10. Adding a rule.

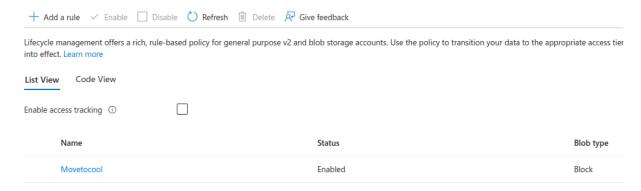


Figure 11. Created rool.

Task 2: Create and configure secure blob storage.

Create a blob container and a time-based retention policy:

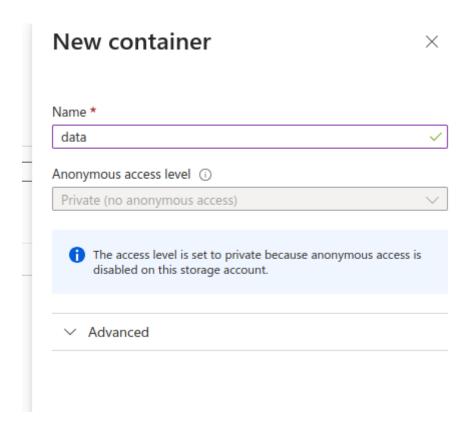


Figure 12. Creating a blob container.

Policy type Time-based retention Set retention period for * ① 180 Language policy Set retention period for * ① 180 Append blobs Append blobs

Figure 13. Configuring storage policy.

Manage blob uploads:

Block and append blobs

Jpload blob		×
	Drag and drap files have as Browse for files	
	Drag and drop files here or Browse for files	
Overwrite if files alre	ady exist	
^ Advanced		
Blob type ①		
Block blob		~
✓ Upload .vhd fi	les as page blobs (recommended)	
Block size (i)		
4 MiB		~
Access tier ①		
Hot (Inferred)		~
Upload to folder		
securitytest		
Blob index tags ①		
Key	Value	
Encryption scope		
	default container scope	
Choose an ex	isting scope	
Retention policy (
Use containe	r-level retention period: 180 day(s)	
Choose custo	om retention period	

Figure 14. Configuring blob.

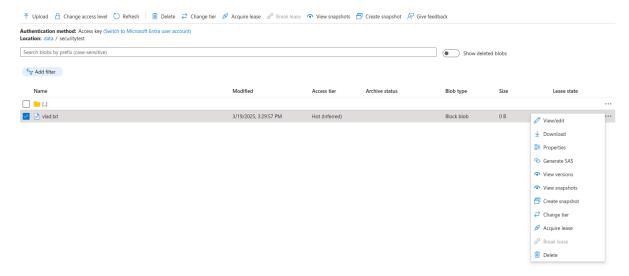


Figure 15. Created blob storage.

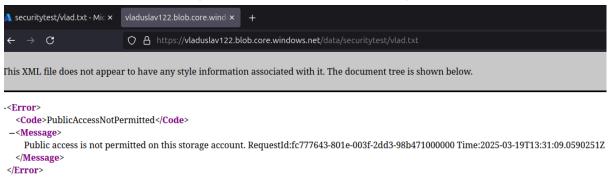


Figure 16. Refused permission.

Configure limited access to the blob storage:

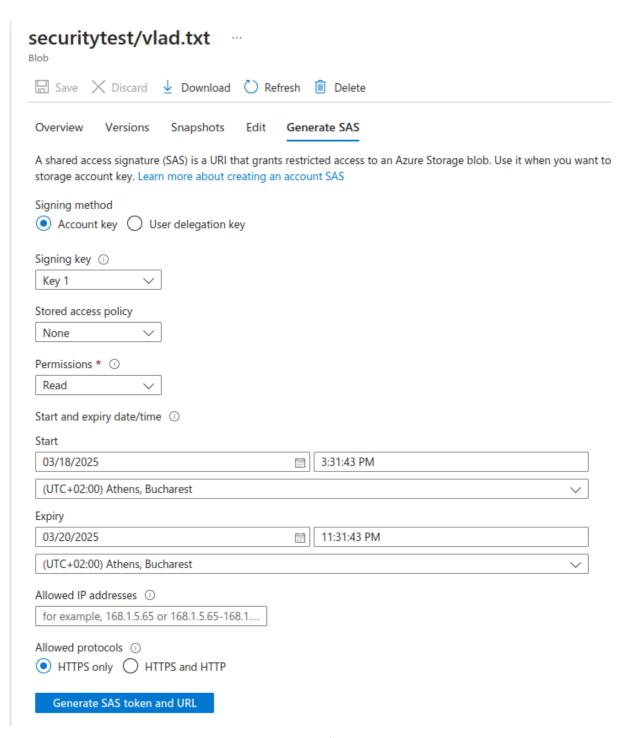


Figure 17. Configing SAS.

Since the file is empty, there is nothing here, but it opens:

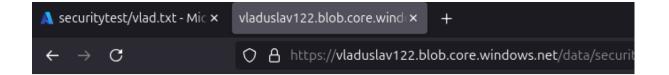


Figure 18. File in blob storage.

Task 3: Create and configure secure Azure file storage.

Create the file share and upload a file:

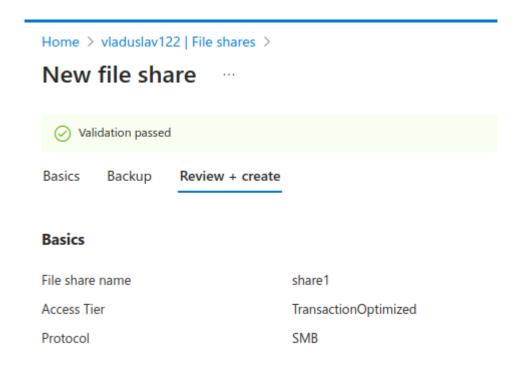


Figure 19. Review file share.

Explore Storage Browser and upload a file:

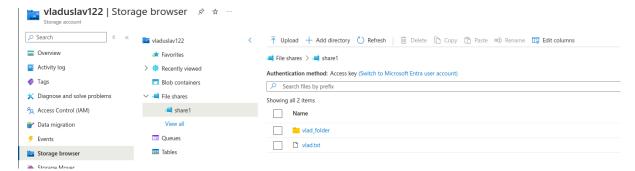


Figure 20. Created file share.

Create virtual network

Tags

Basics	Security	IP addresses	Tags	Review + create	
View auto	mation temple	ate			
Basics					
Subscription			P4-Real Hands-On Labs		
Resource Group			1-88b31444-playground-sandbox		
Name			vnet1		
Region		East US			
Security					
Azure Bast	tion		Disable	i	
Azure Fire	wall		Disable	1	
Azure DDoS Network Protection		Disabled			
IP addre	esses				
Address s	oace		10.0.0.0/	'16 (65,536 addresses)	
Subnet			default (10.0.0.0/24) (256 addresses)	

Figure 21. Review virtual network.

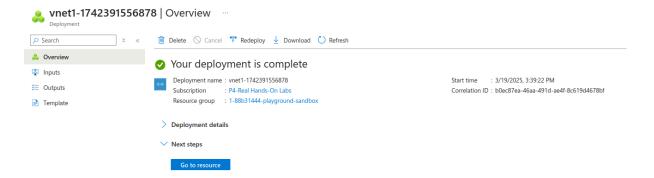


Figure 22. Completed deployment.

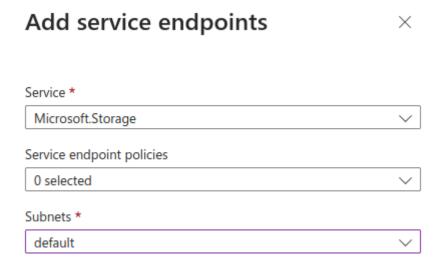


Figure 23. Adding service endpoints.

Restrict network access to the storage account:

	Add networks	×
	Subscription *	
	P4-Real Hands-On Labs	~
	Virtual networks *	
	vnet1	~
	Subnets *	
	default	
	Select subnets	
	✓ Select all	
	vnet1	
	default	
Resource Group		

Figure 24. Adding networks.

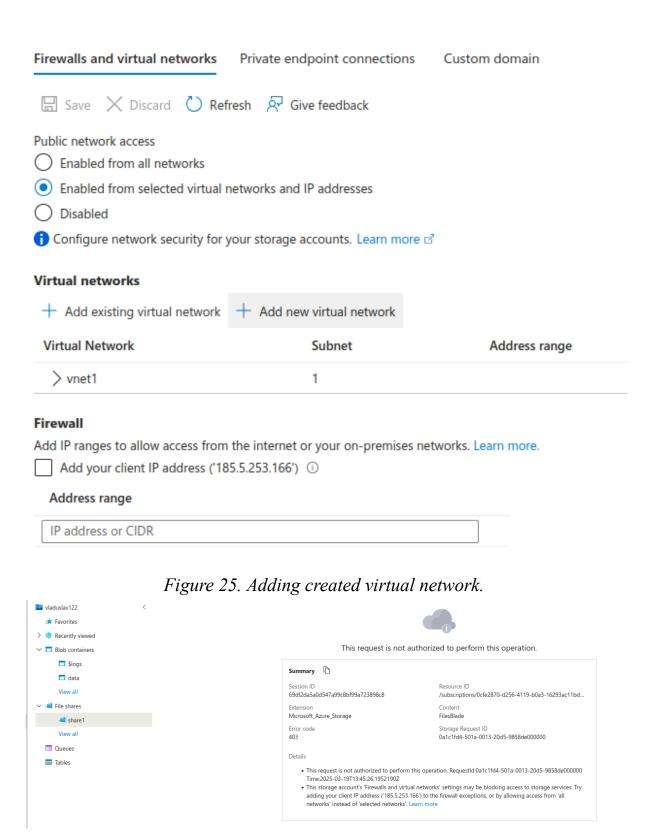


Figure 26. Checking share1.

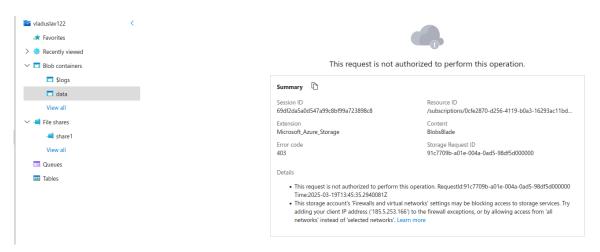


Figure 27. Checking data.