

Azure Backup V4

Click-to-Run[™] Solution Deployment Guide



Azure Backup V4 Deployment Guide

This guide was designed to provide channel partners with the post deployment steps required to successfully deploy Azure Backup V4.

Azure Backup V4 allows you to backup and secure your cloud environment by creating a Recovery Services Vault. In this vault, you will be able to create backup policies and apply them to your VMs, SQL server databases or Azure File Shares.

You will also have the possibility to deploy a Log Analytics Workspace, an Azure Keyvault to secure your private keys, and enable Microsoft Defender for the Azure Storage Accounts you select.

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Architectural Diagram



* Once the backup policies are created, you can attach them to the resources you select in the solution UI.







User Interface

When opening the solution, you will see this form:

Location	
Select data center location	
. Select an available Azure Region	Ŷ
Resource Group name	
File Backup and Cloud Configuration Settings	
Recovery Services Vault Name	
Storage Replication Type for the Recovery Services Vault	
Locally redundant storage (LRS)	
🗇 Gec-redundant storage (GR5)	
Deploy Log Analytics	۲
Security and Ransomware Prevention	
Enable Microsoft Defender for Azure Storage 🛛 🛈	۲
Deploy Azure Key Vault 🚯	۲
	Denkov

Below you can find an explanation of each field:

Location	
Select data center location	
West Europe	~
Resource Group name	
demogroup	

First, you need to select a data center location and a new resource group name that will contain all the resources that will be created during the deployment.



File Backup and Cloud Configuration Settings

Recovery Services Vault Name

demorecoveryservicevault

Storage Replication Type for the Recovery Services Vault

Locally redundant storage (LRS)

Geo-redundant storage (GRS)

Then, you need to specify a new name for the Recovery Services Vault that will be created. This Vault will contain all the backup policies. You can specify if you prefer a Locally redundant storage (LRS) or Geo-redundant storage (GRS).

Deploy Log Analytics	
Log Analytics Region	
West Europe	~

You also have the possibility to deploy a Log Analytics Workspace, which can be used to store, retain, and query data collected from various resources that have been monitored in Azure to provide valuable insights for those resources.

Backup Policies			
Virtual Machines	SQL Server databases	Azure File Share	
Create a Backup Po	licy for Virtual Machines		
Create a backup Po	nicy for virtual machines		

In this section you can create the backup policies for your Virtual Machines, SQL Server databases and Azure File Share. Enabling the toggle will display a new set of options.



Virtual Machines	SQL Server databases	Azure File Share		
Create a Backup Po	Create a Backup Policy for Virtual Machines			
Backup Frequency				
🔿 Daily				
Weekly				
Time Zone				
(UTC) Coordinat	ed Universal Time		~	
Schedule Run Time	0			
23:00 ©				
Schedule Run Day				
Sunday			~	
Apply Backup Polic	y 🛈			
Available Virtual Machines for applying the Backup Policy				
advm1, ia-jb01				

Here, for example, we have created a backup policy for Virtual Machines that will run every Sunday at 11pm UTC and will backup the VMs *advm1* and *ia-jb01*. NOTE: make sure the VMs are ON when deploying the solution.



Virtual Machines	SQL Server databases	Azure File Share		
Create a Backup Po	Create a Backup Policy for SQL Server databases			
Backup Frequency				
Daily				
○ Weekly				
Time Zone				
(UTC) Coordinat	ted Universal Time		~	
Schedule Run Time 🕕				
22:30 ©				
Apply Backup Policy 🕕				
Please, select only the Virtual Machines that contain the SQL server you want to backup. Also, make sure that the selected Virtual Machines are powered ON before deploying the solution.				
Available Virtual Machines for applying the SQL Server Backup Policy				
advm1 🗸				

In this other example, we have applied a SQL Server database backup policy that will run every day at 10:30pm UTC and we have linked it with the VM advm1. Note: make sure that the selected VMs contain a SQL server and the VM is ON when deploying the solution.





Create a Backup P	olicy for Azure File Shares	(Daily only)	
ackup Frequency:			
Daily			
ime Zone			
(UTC) Coordina	ated Universal Time		~
chedule Run Tim	• 0		
00:00	©		
Apply Backup Poli	cy 🚯		
wailable Azure Fil	e Shares for applying the	Backup Policy 🕕	
sapbits (Storag	e Account: ujpjfezpofjez), userprofiles (Storage Accour	nt: s

In this final example, we have created an Azure File Share backup policy that will run daily (this type of backup policy can only run daily, not weekly) at 00am UTC and we have applied it to two different Azure File Shares.

Enable Microsoft Defender for Azure Storage 🏾 🕕	
Available Storage Accounts for applying Microsoft Defender 🛛 🕕	
csb10032000f4454afd, csb10032001b46e3b9e, ofiezmfmozwa	~

In this section you can enable Microsoft Defender for Azure Storage.

"Microsoft Defender for Storage is an Azure-native layer of security intelligence that detects potential threats to your storage accounts. It helps prevent the three major impacts on your data and workload: malicious file uploads, sensitive data exfiltration, and data corruption."

You can apply this feature to the storage accounts you select in the dropdown.



Deploy Azure Key Vau	ılt 🕕			
Key Vault SKU				
Standard				~
Soft Delete Retention	(in days) 🕕			
o <u></u>	0			
10	15	20	25	30

Finally, you can deploy an Azure Key Vault to secure your private keys, certificates, etc. You can select between a Standard or Premium SKU as well as define the number of days for the Soft Delete Retention.



Post-deployment

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- feint	🔹 🖙 👘 Greate 🍈 Manage vera 🗸 📳 Delete ressurce group 🏠 Bebreh 👔 Export to CSV 👫 Open query		Dpen in mobile
Dummer	- Kneetiek		
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Settings	The her are field. Species at X Location much at X Ty Add Nor		
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To check the deployment, you can go to the Azure Portal and in Resource Groups, select the one you created. The resource group will contain all the different resources that were created during the deployment. In this case, we will get:

- A Solution and a Log Analytics Workspace (if we turned on the *Deploy Log Analytics* option).

- A Key vault (if we turned on the Deploy Azure Key Vault option).
- A Recovery Services vault.

Let's review the Recovery Services vault.



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demorecoveryserv	vicevault Backup policies	ŧ =	
A Solid	+ Add Co Refresh RP Feedback		
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Activity log	and a second sec		12/4/2010
Access control (IAM)	Name	Potcy sub type	policy type
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Or Diagnose and solve problems	manyunghacilan		SQL Server In Azure VM
Settings	Defautrology	Standard	Anne Vistual Machine
	contemposity Straget-cover Cally		Azare File Share
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Site Recovery			
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Backup Inflastructure			

Opening the Recovery Services vault and clicking on **Backup policies** will show us the custom policies we have created (the ones that start with **custompolicy**, the others are created by default). You can see that one is for Azure Virtual Machines, another is for Azure File Share, and another for SQL Server in Azure VM.

If we open one of these policies, we can see more details (some of them were specified in the solution form, like in this example where we applied a policy to be executed on Sundays at 11pm UTC):



-	Microsoft Azure		P. Search resources, services, and docs (G+/)
	iii > demogroup > demonicovery	wervice/www.lt.[Blackup polici	
M	odify policy		
	mpolicy VirtualMachine-Workly		
	Associated items 📄 Delete		
	Recovery points can be automatically	noved to the vault-archive tier	using backup policy. Learn more+
Back	cup schedule		
Freq	uency Days	Time* Times	ione -
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2.			
insta	ant restore ()		
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	Retention of monthly backup point		
	Not Configured		
	Retention of yearly backup point		
	Not Configured		
Enab	No tiering ()	Move to vault-archituse the feature. Land	w tier option is not available based on the retention range selected. Modify the retention setting to in more.
-			
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Clicking on **Backup Infrastructure > Storage Accounts** will show us the Storage Accounts where the Azure File Share policy was applied:

Microsoft Azure		P Search resources, services, and door (67+/)	
Home : demogroup : demoiscovery			
Backup Infrastructure	Storage Accounts		
Search -	🙆 Refesh 🖓 Efter		
Overview Management servers	Fetching data from service completed.		
2 Backup Management Servers	19 Filter Rems		
Protected Service	Name		PROTECTED ITEMS
Azure Storage Accounts	shdajpoprj		
Storage Accounts	upplexpohez		



We can also see all the resources (items) that have been backed up by clicking on **Backup items**:

Microsoft Azure		\mathcal{P} . Search resources, services, an
Home > demogratip > demorecov demorecoveryset Recovery Services wait	rvicevault Backup items 🔅	
🤌 Search	< 🙆 Refresh	
 Networking Properties 	 For backups, try our new Backup Center. 	It offers Azure Backup customers a unifie
👌 Lods	(Primary Region) Secondary Region)	
Getting started		
💣 Backup	BACKUP MANAGEMENT TYPE	BACKUP ITEM COUNT
Site Recovery	Azure Virtual Machine	2
Protected items	Azure Storage (Azure Filet)	2
Backup dame	Azure Backup Agent	0
nackup nems	Azure Backup Server	0
Replicated items	DPM	0
Manage	SQL in Azure VM	o
Backup policies	SAP HANA In Azure VM	0
Backup Infrastructure		

In this case, 2 VMs and 2 Azure File Shares.

Clicking on each of these entries will show more details on the items that are backed up:

Microsoft Auure		Search resources, services, and does (0+0			1 18 4	0.0
Backup Items (Azure)	Virtual Machine)					
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You have the option to stop the backup at any moment, or backup the item now.





Packup pow	
Restore VM	••
File Recovery	
Stop backup	
Delete backup data	
Resume backup	
Undelete	

To review if Microsoft Defender for Azure Storage Accounts was correctly applied, you can go to Storage Accounts > (select the Storage Account) > Capabilities.

Here you should see that the **Security** feature has the status Configured.



In case you decide to turn off Microsoft Defender, you can click on **Security** and then Click on the **Settings** link and then turn off the toggle **Microsoft Defender for Storage (classic plan)** on the right menu.





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🖉 Taga	TORN MANAGEMENT AND A STATE OF			
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Duta migration	a Tarata Socialia	< =		
Donts				
Storage torowner				
A Sunge Meser	5 <u>.</u>			
Data dorage	Becommendations			
Containers	- Hereiter Hereiter im			
- Fin chares	Definition for Cloud continuously monitors the configuration of your closury accounts to identify potential security	whereaster		
Canter.	Description			
and database	Dorage account should use a private link convection			
Security + networking	Dionege accounts should entricit entricels access using virtual redentist, suite			
skilwasking	Access to storage accounts with firmula and virtual retwork configurations should be restricted			
Active CDN	The Wine additional segmentations in Defender for Doet 1			
Access keys				
Stated access signature				
🔒 tropper	Security incidents and elects			
• Microsoft Certiender for Cloud	servered inclusions and access			
Data management	Defender for Cloud uses edvarced analytics and global threat establightes to alsot you to markenus activity. Alerts	citation to the second		
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