

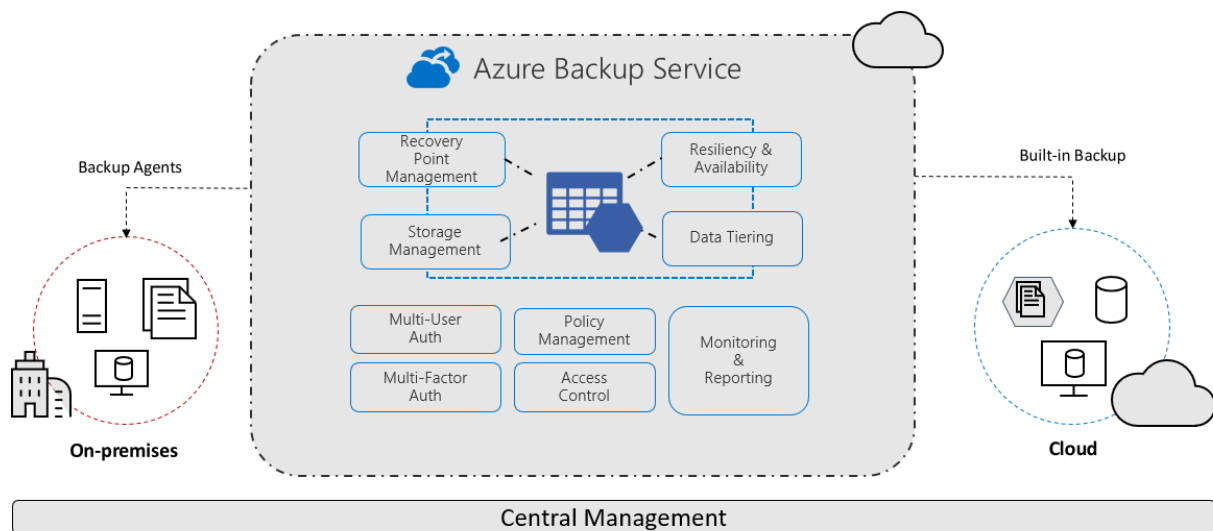


Stories 14 : Backup Azure Resources

The Azure Backup service provides simple, secure, and cost-effective solutions to back up your data and recover it from the Microsoft Azure cloud.

- **On-premises** - Back up files, folders, system state using the [Microsoft Azure Recovery Services \(MARS\) agent](#). Or use the DPM or Azure Backup Server (MABS) agent to protect on-premises VMs ([Hyper-V](#) and [VMware](#)) and other [on-premises workloads](#)
 - **Azure VMs** - [Back up entire Windows/Linux VMs](#) (using backup extensions) or back up files, folders, and system state using the [MARS agent](#).
 - **Azure Managed Disks** - [Back up Azure Managed Disks](#)
 - **Azure Files shares** - [Back up Azure File shares to a storage account](#)
 - **SQL Server in Azure VMs** - [Back up SQL Server databases running on Azure VMs](#)
 - **SAP HANA databases in Azure VMs** - [Backup SAP HANA databases running on Azure VMs](#)
 - **Azure Database for PostgreSQL servers** - [Back up Azure PostgreSQL databases and retain the backups for up to 10 years](#)
 - **Azure Blobs** - [Overview of operational backup for Azure Blobs](#)
 - **Azure Database for PostgreSQL Flexible server** - [Overview of Azure Database for PostgreSQL Flexible server backup \(preview\)](#)
 - **Azure Kubernetes service** - [Overview of AKS backup](#)

Recovery service Vault : A Recovery Services vault is **an entity that stores the backups and recovery points created over time**. The Recovery Services vault also contains the backup policies that are associated with the protected virtual machines. Azure Backup automatically handles storage for the vault. See how storage settings can be changed.




Lab : How to take Backup Azure VM Backup

Solution:

Create a windows server 2016 Vm

Create a virtual machine ...

 Changing Basic options may reset selections you have made. Review all options prior to creating the virtual machine.

Instance details

Virtual machine name * ⓘ

BackupVM

Region * ⓘ


(US) East US

Availability options ⓘ

Availability zone

Availability zone * ⓘ

Zones 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 * ⓘ


Windows 10 Pro, version 22H2 - x64 Gen2

[See all images](#) | [Configure VM generation](#)

VM architecture ⓘ

☐ Arm64

☒ x64

 Arm64 is not supported with the selected image.

Run with Azure Spot discount ⓘ

☐

Size * ⓘ

Standard_DS1_v2 - 1 vcpu, 3.5 GiB memory (₹4,185.10/month)

[See all sizes](#)

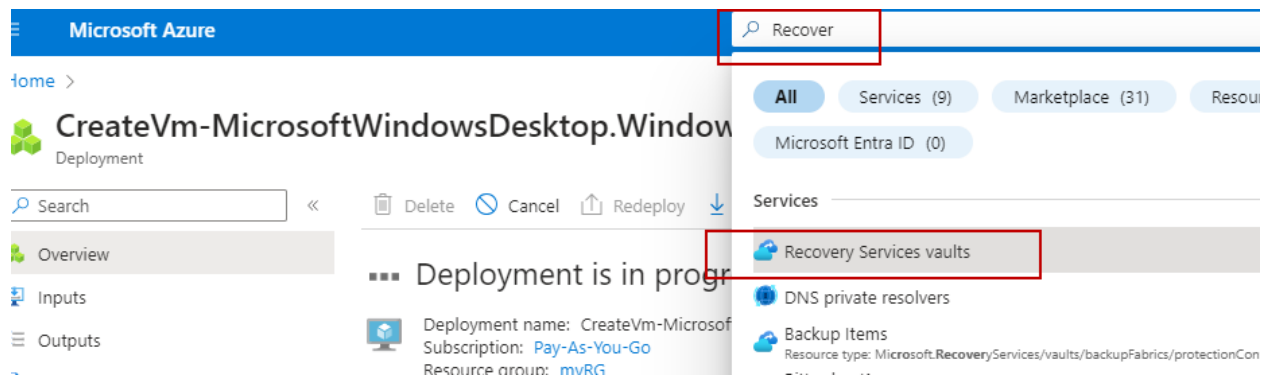
[Review + create](#)

[< Previous](#)

[Next : Disks >](#)

Connect to vm via RDP

Step 2: Create a Recovery Service Vault



Create a recovery service vault

Create Recovery Services vault

*** Basics** Redundancy Vault properties Networking Backup encryption (preview) Tags Review + create

Project Details

Select the subscription and the resource group in which you want to create the vault.

Subscription * ⓘ

Resource group * ⓘ [Create new](#)

Instance Details

Vault name * ⓘ

Region * ⓘ

i Cross Subscription Restore is enabled by default for all vaults. Visit vault 'Properties' to disable the same. [Learn more.](#)

Review + create

Next: Redundancy

which backups are enabled

Home > myvault

myvault | Backup items ☆ ...
Recovery Services vault

Search << Refresh

Settings

- Identity
- Networking
- Properties
- Locks

Getting started

- Backup
- Site Recovery

Protected items

- Backup items**
- Replicated items

Manage

- Backup policies
- Backup Infrastructure
- Site Recovery infrastructure
- Recovery Plans (Site Recovery)
- Backup Reports

Monitoring

- Alerts




For backups, try our new Backup Center. It offers Azure Backup customers a unified view

Primary Region Secondary Region

BACKUP MANAGEMENT TYPE	BACKUP ITEM COUNT
Azure Virtual Machine	0
Azure Backup Agent	0
Azure Backup Server	0
DPM	0
Azure Storage (Azure Files)	0
SQL in Azure VM	0
SAP HANA in Azure VM	0


create a backup


Home >


 **myvault**   ...


Recovery Services vault


Search

 Overview


 Activity log


 Access control (IAM)


 Tags


 Diagnose and solve problems

Settings


 Identity


 Networking

 Properties


 Locks


Getting started

 Backup


 Site Recovery





Protected items


 Backup items

 Replicated items

Manage

 Backup policies

 Backup  Enable Site Recovery  Delete  Refresh

 Try our new Business Continuity Center for the at scale BCDR manag

Essentials

Overview Backup Site Recovery

What's new

SAP HANA database instance snapshots on Azure VMs is now gen

HANA System Replication (HSR) support for SAP HANA DB on Azi

Cross Subscription Restore for SAP HANA Databases on Azure VM


Cross Subscription Restore for SQL Databases on Azure VM is nov


Cross Subscription Restore for Azure Virtual Machines is now gen

A new and improved way to enable Azure Site Recovery on your \

Site Recovery replicated items and jobs views across subscriptions

Azure Backup Metrics are now in public preview →

 **Backup**

 **Site Recove**


As we are backuping azure vm Select AZURE

Microsoft Azure

Search resources

[Home](#) > [myvault](#) >

Backup Goal ...

 The storage replication is set to Geo-Redundant. This option cannot be changed later. Before proceeding further, click

Where is your workload running?

Azure

Azure

Azure Stack Hub

Azure Stack HCI

On-Premises

Backup

Add vm then

Home > ConfigureProtection-1706084292203 | Overview > myvault

myvault | Backup items ☆ ⋮

Recovery Services vault

Search

Refresh

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

Settings

- Identity
- Networking
- Properties
- Locks

Getting started

- Backup
- Site Recovery

Protected items

- Backup items
- Replicated items

For backups, try our new Backup Center. It offers Azure Backup customers a unified view of Recover

Primary Region Secondary Region

BACKUP MANAGEMENT TYPE	BACKUP ITEM COUNT
Azure Virtual Machine	1
Azure Backup Agent	0
Azure Backup Server	0
DPM	0
Azure Storage (Azure Files)	0
SQL in Azure VM	0
SAP HANA in Azure VM	0

click on backup

Home > ConfigureProtection-1706084292203 | Overview > myvault | Backup items >

Backup Items (Azure Virtual Machine) ⋮

myvault

Refresh + Add Filter

With Backup center, you can view all your IaaSVM items across vaults, subscriptions and regions in a single pane of glass. Click here to use the new experience. →

✓ All data fetched from the service.

Filter items

Name ↑↓	Resource Group ↑↓	Backup Pre-Check	Last Backup Status	Latest restore point ↑↓
BackupVM	myRG	Passed	Warning (Initial backup pending)	

< Previous Page 1 of 1 Next >


Create a initial backup now by clicking on three dot and bakcup now

[Home](#) > [ConfigureProtection-1706084292203 | Overview](#) > [myvault | Backup items](#) > [Backup Items \(Az](#)

Backup now ...

BackupVM

Retain backup till * ⓘ



click on backup job to check the backup

Home > ConfigureProtection-1706084292203 | Overview > myvault

myvault | Backup Jobs ☆ ...

Recovery Services vault

Search

Choose columns Filter Export jobs Refresh Feedback

Filtered by: Item Type - All, Operation - All, Status - All, Start Time - 1/23/2024, 1:57:53 PM, End Time - 1/24/2024, 1:57:53 PM

For backups, try our new Backup Center. It offers Azure Backup customers a unified view of Recovery Services Vaults used for backup in Azure. It also provides improved sorting and filtering along with new governance capabilities. [Click here to get the](#)

All data fetched from the service.

Filter items ...

Workload name ↑↓	Operation	Status	Type	Start time ↑↓	Total Duration ↑↓
backupvm	Backup	Failed	Azure Virtual Machine	1/24/2024, 1:57:00 PM	00:00:01
backupvm	Backup	In progress	Azure Virtual Machine	1/24/2024, 1:54:16 PM	00:03:38
backupvm	Configure backup	Completed	Azure Virtual Machine	1/24/2024, 1:48:19 PM	00:00:40

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Protected items

- Backup items
- Replicated items

Manage

- Backup policies
- Backup infrastructure
- Site Recovery infrastructure
- Recovery Plans (Site Recovery)
- Backup Reports

Monitoring

- Alerts
- Metrics
- Diagnostic settings
- Logs
- Advisor recommendations
- Backup Jobs**
- Site Recovery jobs
- Backup Alerts

once the backup is completed you will get an option to restore if you click on view details and create a new vm

Home > Recovery Services vaults > myvault | Backup items

Backup Items (Azure Virtual Machine) ...

myvault

Refresh Add Filter

With Backup center, you can view all your IaaS/VM items across vaults, subscriptions and regions in a single pane of glass. [Click here to use the new experience.](#)

All data fetched from the service.

Filter items ...

Name ↑↓	Resource Group ↑↓	Backup Pre-Check	Last Backup Status	Latest restore point ↑↓	Details
BackupVM	myRG	Passed	Success	1/24/2024, 1:54:24 PM	View details ...

< Previous Page 1 of 1 Next >

Restore once the backup is completed

BackupVM

Backup Item

Backup now Restore VM File Recovery Stop backup Resume backup Delete backup data Restore to Secondary Region Undelete

For backups, try our new Backup Center. It offers Azure Backup customers a unified view of Recovery Services Vaults used for backup in Azure. It also provides improved sorting and filtering along with new governance capabilities. Click here to get the new experience. →

Essentials

Recovery services vault : [myvault](#)

Subscription ([move](#)) : [Pay-As-You-Go](#)

Subscription ID : b7ff9584-8c96-405b-9679-3146ee164646

Alerts (in last 24 hours) : [View alerts](#)

Jobs (in last 24 hours) : [View jobs](#)

Backup Pre-Check : ✓ Passed

Last backup status : ✓ Success 1/24/2024, 1:57:00 PM

Backup policy : [EnhancedPolicy \(Enhanced\)](#)

Oldest restore point : 1/24/2024, 1:54:24 PM (1 hour(s) ago)

Included disk(s) : [All disks](#)

Recovery points

This list is filtered for last 30 days of recovery points. To recover from recovery point older than 30 days, as well as vault-archive, [click here](#).

Long term recovery points can be moved to vault-archive. To move all 'recommended recovery points' to vault-archive tier, [click here](#).

CRASH CONSISTENT 0 APPLICATION CONSISTENT 1 FILE-SYSTEM CONSISTENT 0

Creation time ↑↓	Consistency	Recovery type
1/24/2024, 1:54:24 PM	Application Consistent	Snapshot and Vault-Standard