

Delete a Resource Group with Recovery Service Vault and Backup inside

[Edition 03]

[Last Update 200930]



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1 INTRODUCTION

This activity guide cover steps to

- Delete a Resource Group containing Recovery Service Vault and Backups.

2 DOCUMENTATION LINKS

1. Azure Resource Manager: <https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/overview>
2. Recovery Service Vault Overview: <https://docs.microsoft.com/en-us/azure/backup/backup-azure-recovery-services-vault-overview>
3. Create an RS Vault: <https://docs.microsoft.com/en-us/azure/backup/backup-create-rs-vault>

3 RECOVERY SERVICE VAULT

A Recovery Services vault is a storage entity in Azure that houses data. The data is typically copies of data, or configuration information for virtual machines (VMs), workloads, servers, or workstations. You can use Recovery Services vaults to hold backup data for various Azure services such as IaaS VMs (Linux or Windows) and Azure SQL databases. Recovery Services vaults support System Center DPM, Windows Server, Azure Backup Server, and more. Recovery Services vaults make it easy to organize your backup data while minimizing management overhead.

Within an Azure subscription, you can create up to 500 Recovery Services vaults per subscription per region.

4 PREREQUISITES

1. You must have a Resource Group created which you want to delete.
2. A Virtual Machine Backup is stored in the Recovery Service Vault in the same Resource Group.

5 DELETING A RESOURCE MANAGER WITH RECOVERY SERVICE VAULT AND BACKUP INSIDE

1. Log in to the Azure portal at <https://portal.azure.com>.
2. Creating a **Recovery service vault** in **Resource Group**. Go to **Search** and Search for **Recovery service vault** and configure for the same **resource group**.

Home > Recovery Services vaults >

Create Recovery Services vault

Preview

* Basics Tags Review + create

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

Subscription * ⓘ Free Trial ▼

Resource group * ⓘ K21-demo-rg ▼
[Create new](#)

Instance Details

Vault name * ⓘ DemoVaultk21 ✓

Region * ⓘ West Central US ▼

[Review + create](#) [Next: Tags](#)

3. Go into the **Recovery service vault** and create a backup of **Virtual machine**.

DemoVaultk21 | Backup

Recovery Services vault

- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Settings
 - Identity
 - Private endpoint connections
 - Properties
 - Locks
- Getting started
 - Backup**
 - Site Recovery
- Protected items
 - Backup items
 - Replicated items
- Manage

Where is your workload running?

Azure

What do you want to backup?

Virtual machine

Step: Configure Backup

Backup

4. **Add Virtual machine** in the backup and service recover vault and enable the **backup** as process follows.

Backup

DemoVaultk21

Policy

DefaultPolicy

[Create a new policy](#)

BACKUP FREQUENCY

Daily at 7:00 PM UTC

Instant Restore

Retain instant recovery snapshot(s) for 2 day(s)

RETENTION RANGE

Retention of daily backup point

Retain backup taken every day at 7:00 PM for 30 Day(s)

Virtual Machines

Virtual machine na...	Resource Group	OS Disk Only
No Virtual Machines Selected		

Add

OS Disk only backup option allows you to backup Azure Virtual Machine with only OS disk and exclude all the data disks. You can use S...
Know more about Selective Disk Backup feature, its limitation and pricing- [Learn more.](#)

Enable Backup

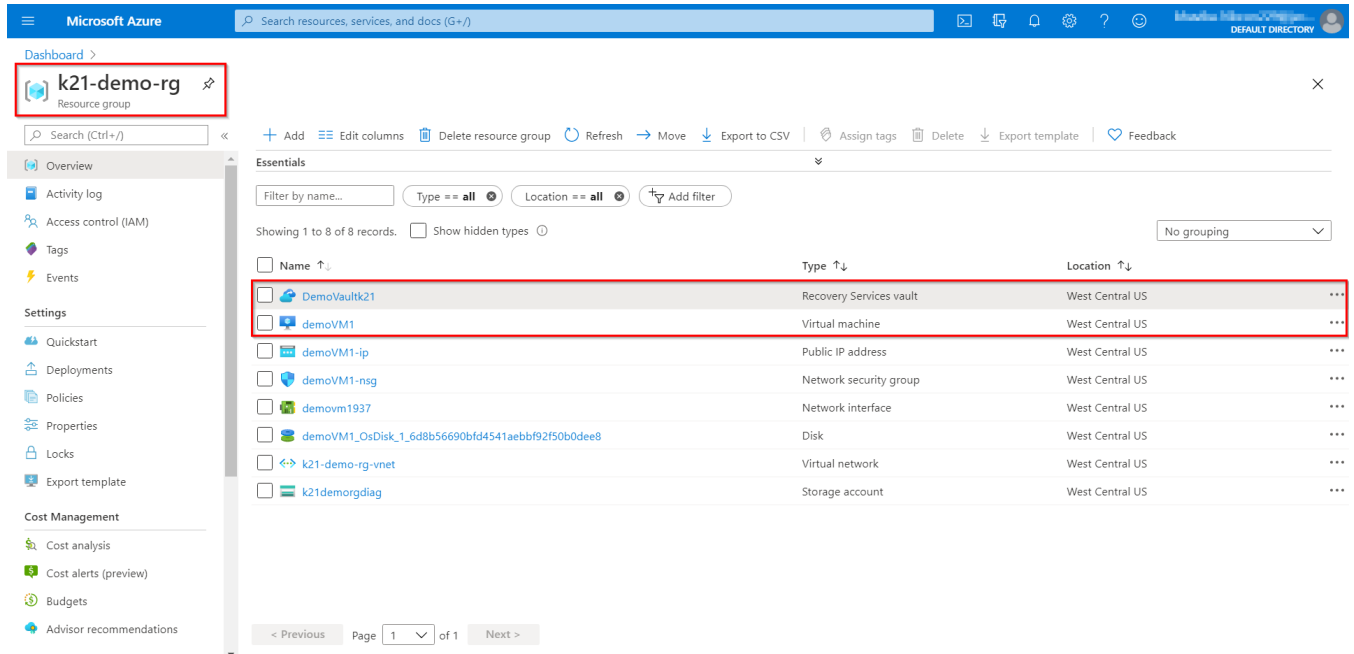
☒ Virtual machines in the same region as vault and not protected by another vault are shown. Click to learn more on best practices to configure backup.

Filter items ...

Virtual machine name	Resource Group
<input type="checkbox"/> TestVm	Test_Resource

OK

5. Go to the Resource Group containing **Recovery Service Vault and Backup**.



Name	Type	Location
DemoVaultk21	Recovery Services vault	West Central US
demoVM1	Virtual machine	West Central US
demoVM1-ip	Public IP address	West Central US
demoVM1-nsg	Network security group	West Central US
demovm1937	Network interface	West Central US
demoVM1_OsDisk_1_6d8b56690bfd4541aebb92f50b0dee8	Disk	West Central US
k21-demo-rg-vnet	Virtual network	West Central US
k21demorgdiag	Storage account	West Central US

Note: Before deleting the resource group we must delete the Backup inside the Recovery Service Vault and the Recovery Service Vault.

5.1 Deleting Backups Inside RS Vault

1. Click on the **Recovery Service Vault** containing the Backup of your resources.

Microsoft Azure portal showing the 'k21-demo-rg' resource group. The 'DemoVaultk21' entry is highlighted in red, indicating it is the selected Recovery Service Vault.

Name	Type	Location
DemoVaultk21	Recovery Services vault	West Central US
demoVM1	Virtual machine	West Central US
demoVM1-ip	Public IP address	West Central US
demoVM1-nsg	Network security group	West Central US
demovm1937	Network interface	West Central US
demoVM1_OsDisk_1_6d8b56690bfd4541aebb92f50b0dee8	Disk	West Central US
k21-demo-rg-vnet	Virtual network	West Central US
k21demorgdiag	Storage account	West Central US

2. Click on **Properties**.

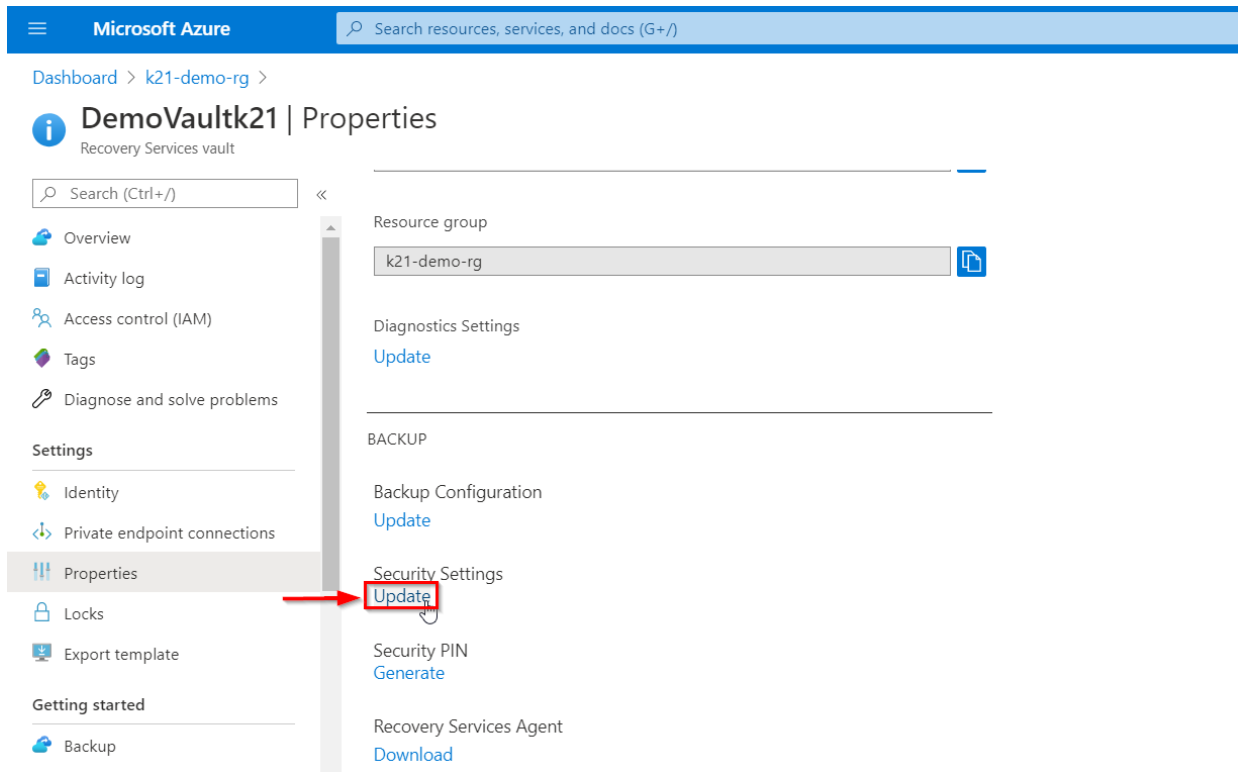
Microsoft Azure portal showing the 'DemoVaultk21' Recovery Services vault. The 'Properties' tab is selected in the left-hand navigation pane.

Overview | Backup | Site Recovery

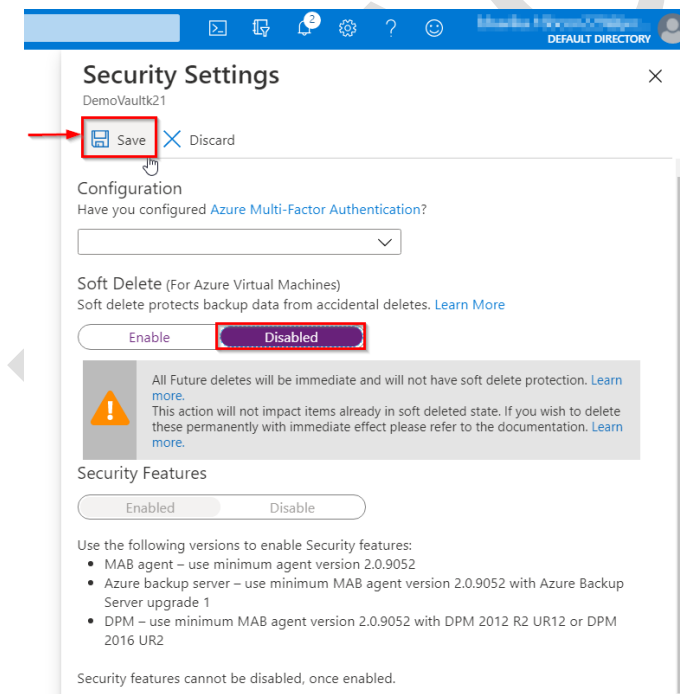
What's new

- Azure File shares snapshot management by Azure Backup is now generally available →
- Backup for SAP HANA databases running in Azure VM is Generally Available →
- Azure Backup support for large disks is Generally Available →
- Configure network properties (internal load balancer, public IP and NSG) in the target region, when replicating Azure VMs →
- Enterprise-scale Backup for SQL Server running in Azure VM is Generally Available →
- Protect on-premises VMs by directly replicating to managed disks in Azure →
- Protection of Azure VMs using Storage Spaces Direct is now available →
- Disaster recovery for VMs deployed in Availability Zones to another region →

3. Click on **Update** present under **Security Settings** to update the Security Settings



4. Select **Disabled** for Soft Delete and Click on **Save**. (This will disable soft delete, so when you delete any backup it will be deleted permanently)



5. Now, Click on **Overview** and then go to **Backup** to get information about your backups.

Microsoft Azure

Dashboard > k21-demo-rg >

DemoVaultk21
Recovery Services vault

Search (Ctrl+)

+ Backup + Replicate Delete Refresh

Essentials

Overview Backup Site Recovery

What's new

- Azure File shares snapshot management by Azure Backup is now generally available →
- Backup for SAP HANA databases running in Azure VM is Generally Available →
- Azure Backup support for large disks is Generally Available →
- Configure network properties (internal load balancer, public IP and NSG) in the target region, when replicating Azure VMs
- Enterprise-scale Backup for SQL Server running in Azure VM is Generally Available →
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- Protection of Azure VMs using Storage Spaces Direct is now available →
- Disaster recovery for VMs deployed in Availability Zones to another region →

6. Click on **Backup items** to check the backups of your resources.

+ Backup + Replicate Delete Refresh

Enterprise-scale Backup for SQL Server running in Azure VM is Generally Available. Learn more. →

Overview Backup Site Recovery

Monitoring

Backup Alerts (last 24 hours)

Critical	1
Warning	0

Backup Pre-Check Status (Azure VMs)

Critical: 0
Warning: 0

Backup Jobs

In progress	0
Failed	0

Usage

Backup items

2

Backup Storage

Cloud - LRS	0 B
Cloud - GRS	0 B

- Click on the **Azure Virtual Machine** that contains Backup. (**Note:** You need to select the resource that contains the backup)

I | Backup items

« Refresh

Primary Region Secondary Region

BACKUP MANAGEMENT TYPE	BACKUP ITEM COUNT
Azure Virtual Machine	2
SAP HANA in Azure VM	0
SQL in Azure VM	0
Azure Storage (Azure Files)	0
DPM	0
Azure Backup Server	0
Azure Backup Agent	0

- Click on the drop-down and select **Stop Backup** to delete/stop the backup.

Microsoft Azure Search resources, services, and docs (G+/)

Dashboard > k21-demo-rg > DemoVaultk21 | Backup items >

Backup Items (Azure Virtual Machine)

DemoVaultk21

Refresh + Add Filter

Fetching data from service completed.

Filter items ...

Name	Resource Group	Backup Pre-Check	Last Backup Status	Latest restore point
demoVM1	k21-demo-rg	Passed	Warning(Initial backup pending)	
demoVM	k21-demo-rg	Passed	Warning(Backup disabled)	

Pin to dashboard

Backup now

Restore VM

File Recovery

Stop backup

Delete backup data

Undelete

9. Select **Delete Backup Data**, type the name of Backup Item, and Click on **Stop Backup**.

Microsoft Azure Search resources, services, and docs (G+)

Home > DemoVaultk21 | Backup items > Backup Items (Azure Virtual Machine) >

Stop Backup

demoVM1

Delete Backup Data

i This option will stop all scheduled backup jobs and delete backup data. Learn more <https://aka.ms/SoftDeleteCloudWorkloads>

Type the name of Backup Item *

demoVM1

Reason

0 selected

Comments

Stop backup

10. Check if any more backup is remaining in your **Backups Items** and delete it.

Microsoft Azure Search resources, services, and docs (G+)

Home > DemoVaultk21 | Backup items >

Backup Items (Azure Virtual Machine)

DemoVaultk21

Refresh Add Filter

i Fetching data from service completed.

Filter items ...

Name	Resource Group	Backup Pre-Check	Last Backup Status	Latest restore point
There are currently no Azure Virtual Machine backup items in this vault.				

5.2 Deleting an RS Vault

1. Click on the **Recovery Service Vault** you want to delete.

Microsoft Azure portal interface showing the 'k21-demo-rg' resource group. The 'Overview' tab is selected. A table lists resources within the resource group. The resource 'DemoVaultk21' is highlighted with a red box, and a red arrow points to it.

Name	Type	Location
DemoVaultk21	Recovery Services vault	West Central US
demoVM1	Virtual machine	West Central US
demoVM1-ip	Public IP address	West Central US
demoVM1-nsg	Network security group	West Central US
demovm1937	Network interface	West Central US
demoVM1_OsDisk_1_6d8b56690bfd4541aebb92f50b0dee8	Disk	West Central US
k21-demo-rg-vnet	Virtual network	West Central US
k21demorgdiag	Storage account	West Central US

2. Click on **Delete** and Click on **Yes**.

Microsoft Azure portal interface showing the 'DemoVaultk21' Recovery Services vault. The 'Delete' button is highlighted with a red box, and a red arrow points to it.

Buttons: Backup, Replicate, **Delete**, Refresh

Essentials

Overview Backup Site Recovery

What's new

- Azure File shares snapshot management by Azure Backup is now generally available →
- Backup for SAP HANA databases running in Azure VM is Generally Available →
- Azure Backup support for large disks is Generally Available →
- Configure network properties (internal load balancer, public IP and NSG) in the target region, when replicating Azure VMs →
- Enterprise-scale Backup for SQL Server running in Azure VM is Generally Available →

Dashboard > k21-demo-rg > DemoVaultk21 >

Delete Recovery Services vault

DemoVaultk21

Are you sure you want to delete Recovery Services vault 'DemoVaultk21' ?

Yes No

3. This will delete the **Recovery Service Vault** in your Resource Group

Microsoft Azure

Search resources, services, and docs (G+/J)

Dashboard > k21-demo-rg Resource group

Search (Ctrl+/)

Essentials

Filter by name... Type == all Location == all Add filter

Showing 1 to 7 of 7 records. Show hidden types No grouping

Name	Type	Location
demoVM1	Virtual machine	West Central US
demoVM1-ip	Public IP address	West Central US
demoVM1-nsg	Network security group	West Central US
demovm1937	Network interface	West Central US
demoVM1_OsDisk_1_6d8b56690bfd4541aebbf92f50b0dee8	Disk	West Central US
k21-demo-rg-vnet	Virtual network	West Central US
k21demorgdiag	Storage account	West Central US

5.3 Deleting a Resource Group

1. Open the **Resource Group** you want to delete and click on **Delete Resource Group**.

The screenshot shows the Microsoft Azure portal interface. The left sidebar contains navigation options like Overview, Activity log, Access control (IAM), Tags, Events, Settings, Quickstart, Deployments, Policies, Properties, Locks, and Export template. The main area displays the 'k21-demo-rg' resource group. A red box highlights the 'Delete resource group' button in the top toolbar. Below the toolbar, there is a table of resources within the group.

Name	Type	Location
demoVM1	Virtual machine	West Central US
demoVM1-ip	Public IP address	West Central US
demoVM1-nsg	Network security group	West Central US
demovm1937	Network interface	West Central US
demoVM1_OsDisk_1_6d8b5669bdf4541aebb92f50b0dee8	Disk	West Central US
k21-demo-rg-vnet	Virtual network	West Central US
k21demorgdiag	Storage account	West Central US

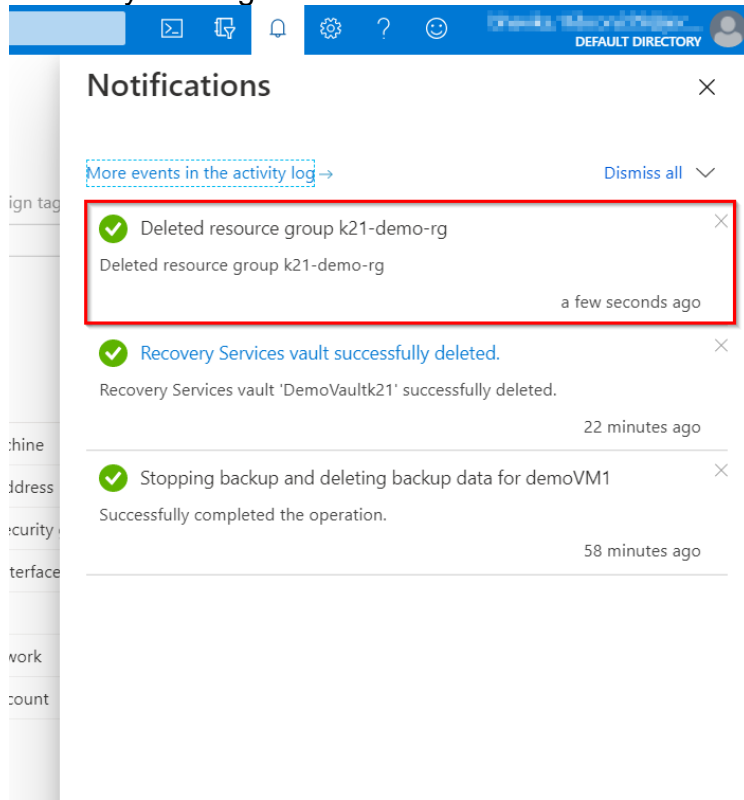
2. Write the **Name** of the resource group you are deleting and click on **Delete**.

The screenshot shows a confirmation dialog box titled 'Are you sure you want to delete "k21-de...". It includes a warning icon and text: 'Warning! Deleting the "k21-demo-rg" resource group is irreversible. The action you're about to take can't be undone. Going further will delete this resource group and all the resources in it permanently.' Below this, there is a text field labeled 'TYPE THE RESOURCE GROUP NAME:' containing 'k21-demo-rg'. Underneath, a section titled 'AFFECTED RESOURCES' states 'There are 7 resources in this resource group that will be deleted.' and lists the resources in a table.

Name	Type	Location
demoVM1	Virtual machine	West Central US
demoVM1_OsDisk_1_6d8b5669...	Disk	West Central US
demovm1937	Network interface	West Central US
demoVM1-ip	Public IP address	West Central US
demoVM1-nsg	Network security gr...	West Central US
k21demorgdiag	Storage account	West Central US
k21-demo-rg-vnet	Virtual network	West Central US

At the bottom of the dialog, there are 'Delete' and 'Cancel' buttons. The 'Delete' button is highlighted with a red box.

3. It will take some time to delete all the remaining resources in the **Resource Group**. Once deleted you will get the **Notification**.



This section completes Deleting a Resource Group with Recovery Service Vault and Backup inside.

6 TROUBLESHOOTING

6.1 Delete resource group failed

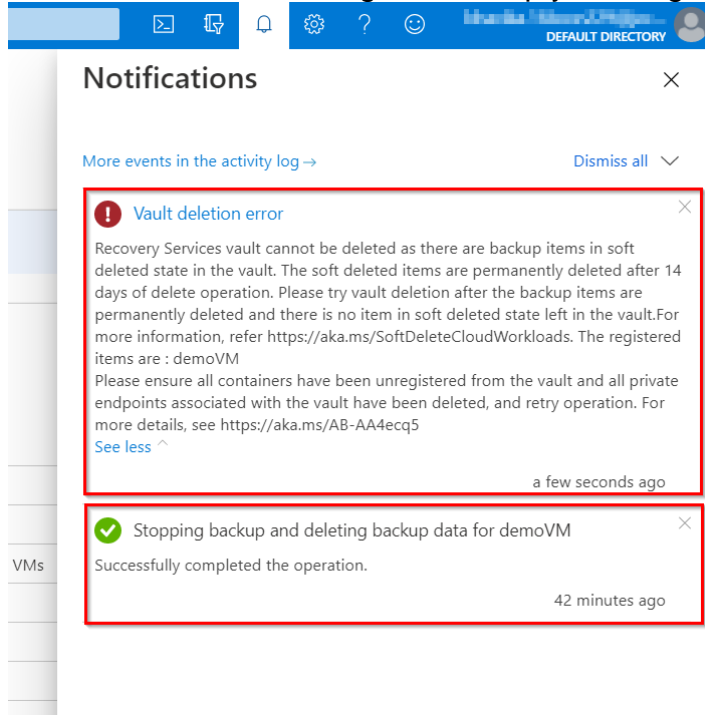
Issue: You deleted the Resource Group but got an error saying “Delete resource group failed”

The screenshot shows the Microsoft Azure portal interface. On the right side, a 'Notifications' panel is open, displaying a red error message: 'Delete resource group k21-demo-rg failed'. The message text reads: 'Failed to delete resource group k21-demo-rg: Deletion of resource group 'k21-demo-rg' failed as resources with identifiers 'Microsoft.RecoveryServices/vaults/DemoVaultk21' could not be deleted. The provisioning state of the resource group will be rolled back. The tracking id is '3000000-1300-1004-0000-000000000000'. Please check audit logs for more details. (Code: ResourceGroupDeletionBlocked) Vault cannot be deleted as there are existing resources within the vault.: demoVM'. It also states: 'Please ensure all containers have been unregistered from the vault and all private endpoints associated with the vault have been deleted, and retry operation. For more details, see https://aka.ms/AB-AA4ecq5 (Code: ServiceResourceNotEmptyWithBackendMessage. Target: /subscriptions/3000000-1300-1004-0000-000000000000/resourceGroups/k21-demo-rg/providers/Microsoft.RecoveryServices/vaults/DemoVaultk21)'. A 'See less' link is at the bottom of the notification. The notification is timestamped 'a minute ago'.

Fix: You need to delete the Recovery Service Vault present inside the Resource Group.

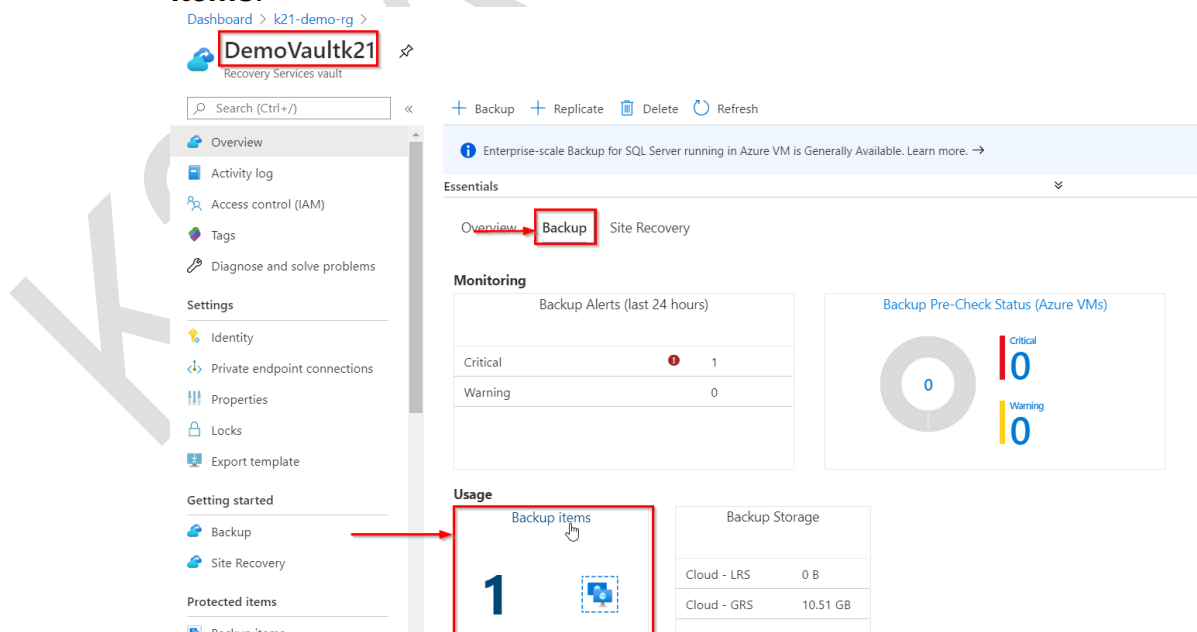
6.2 Vault deletion Error

Issue: Even after deleting the backup you are getting “Vault deletion error”.

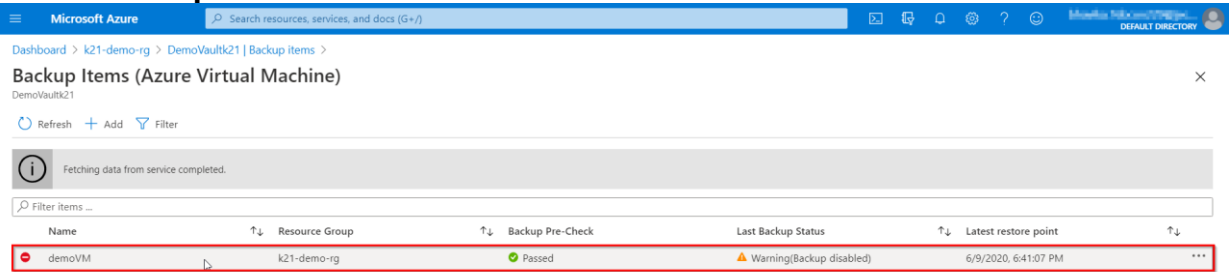


Fix: This is caused due to the Soft delete of your Backup. Make sure to disable soft delete before deleting the backup stored in the vault. Follow **Section 5.1 (Steps 1 to 4)** to disable Soft delete. After you have disabled Soft delete you still need to remove the backup again which is in Soft deleted State. Follow the below after disabling the soft delete:

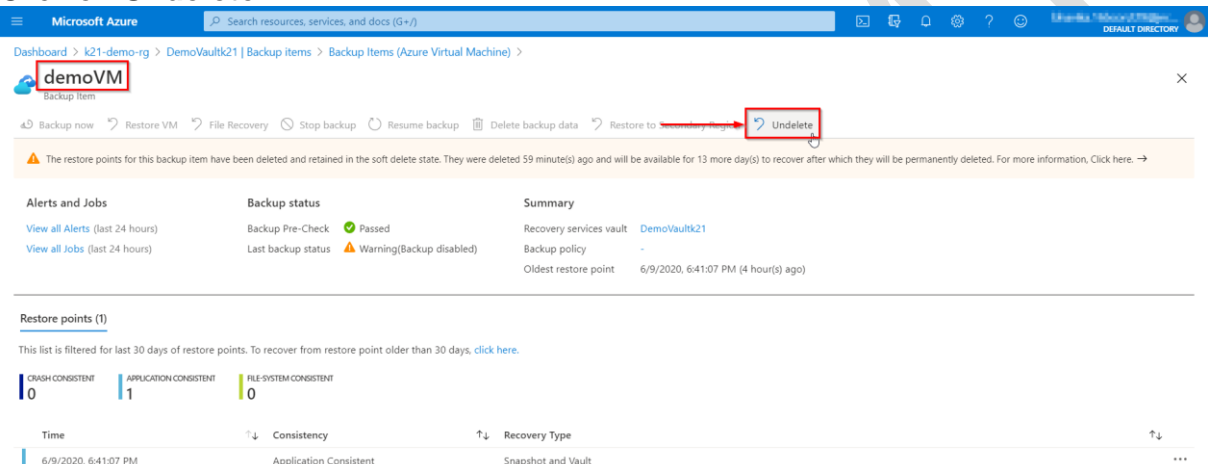
1. Go into the Recovery Service Vault, Click on **Backup** and then click on **Backup items**.



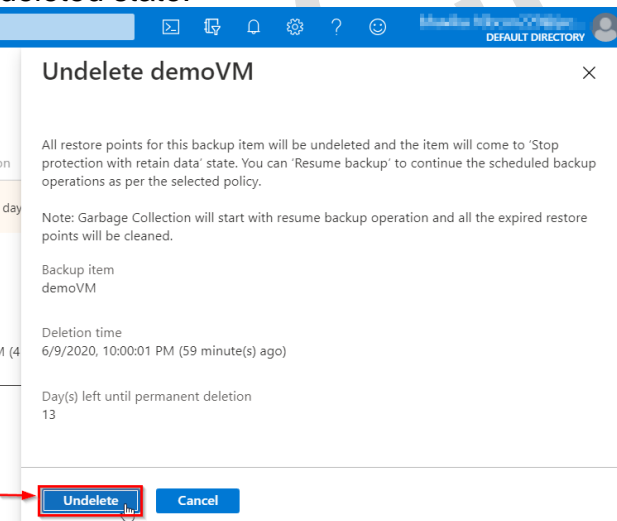
- Click on **Azure Virtual Machine** (Select the resource that has the backup) and click on the **Backup**.



- Click on **Undelete**.



- Click on **Undelete** again. This will restore the deleted backup which was in a soft-deleted state.



- Once all the steps are performed, **Follow Section 5.1 (Steps 8 to 10)** to delete the Backup.
- Now you can delete the Recovery Service Vault.

7 SUMMARY

This completes step by step guide covering:

- How to Delete Resource Group with Recovery Service Vault and Backup inside.