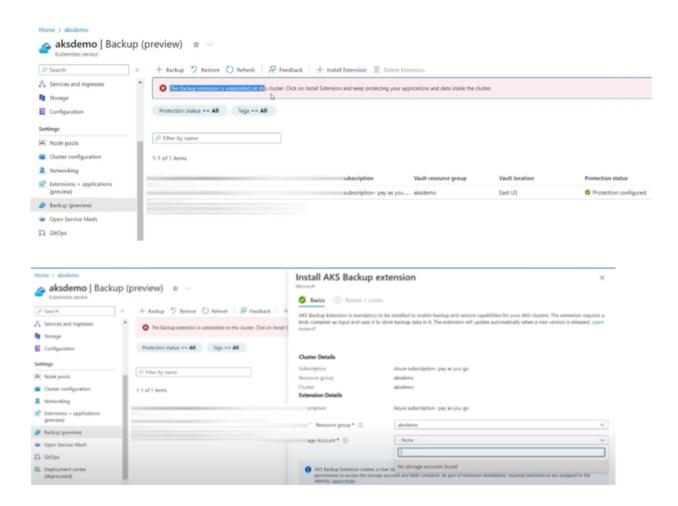
🚀 Backing Up AKS Cluster – Step-by-Step Guide! 💾 🥌

Ensuring Azure Kubernetes Service (AKS) workloads are safe and recoverable is crucial. Here's a quick and effective way to enable and manage backups for AKS cluster using Azure Backup:

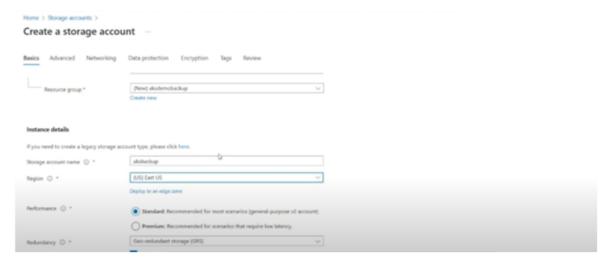
Step 1: Prepare Environment

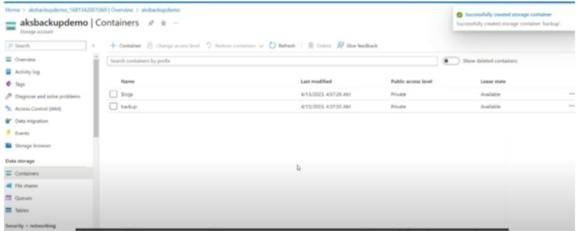
- Head over to AKS cluster in the Azure Portal
- Under Settings, click on Backup
- Install the AKS Backup Extension



Step 2: Set Up Storage

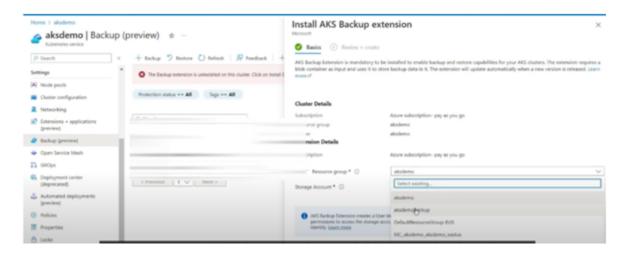
- Create a Storage Account
- Inside the storage account, create a Blob Container

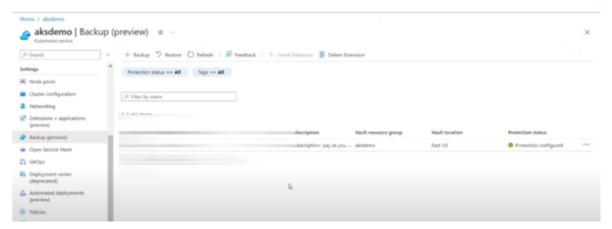




Step 3: Configure Backup

- Back in the AKS cluster, under Backup, install the extension if not already done
- Create a Backup Vault
- Click **Grant Permission** and wait ~60 seconds
- Proceed to create a Backup Policy





Create Backup Vault

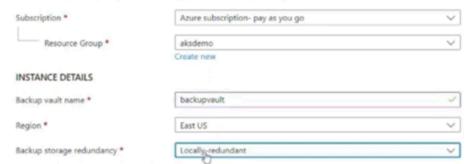
Data Protection

Basics	Vault Properties	Tags	Review +	create

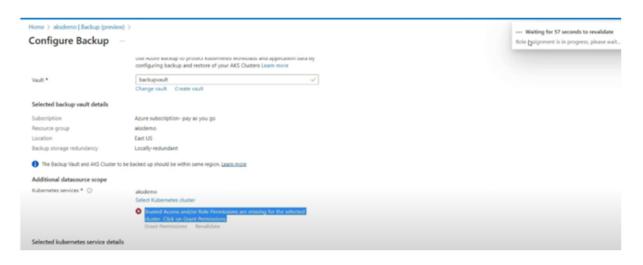
A backup vault is a storage entity in Azure that houses data and lets you organize your backups. Learn more C

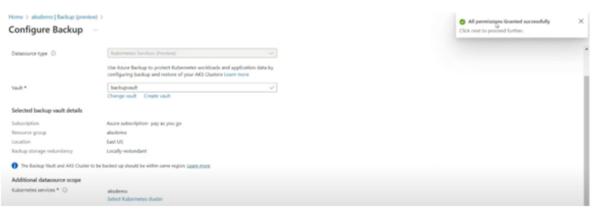
PROJECT DETAILS

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

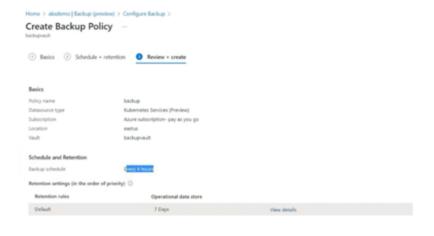


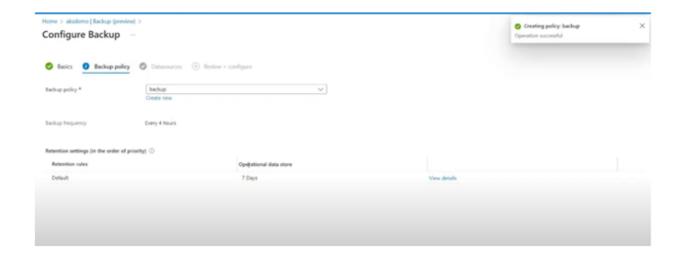
Storage redundancy cannot be changed after protecting items to the vault. Geo-redundant storage provides the highest level of data durability, followed by Zonally-redundant storage and then Locally-redundant storage. The costs are proportionate to the durability guarantees. Review the trade-offs between lower cost and higher data durability that is best for your scenario. Learn more









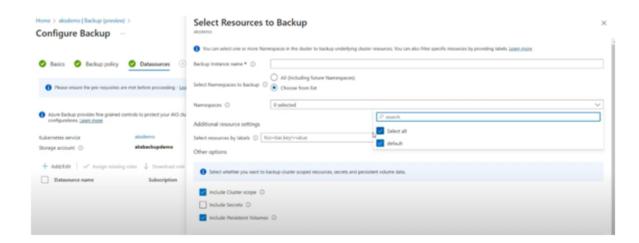


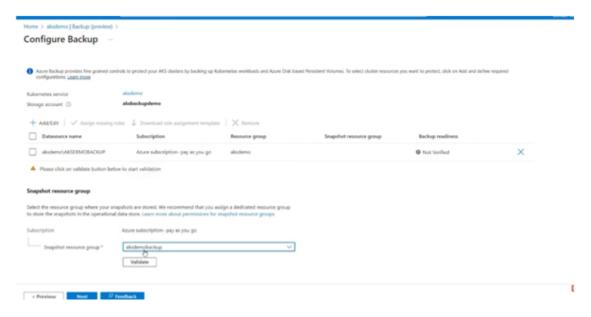
@ You can choose to back up:

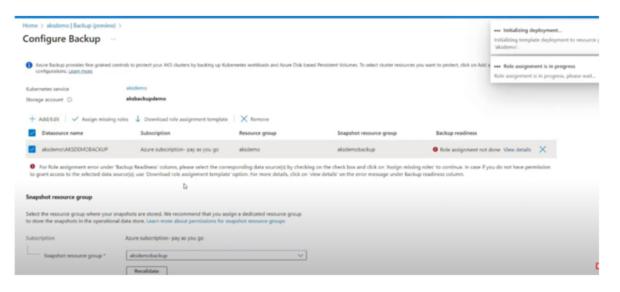
- The entire cluster (including future namespaces)
- Specific namespaces
- Resources selected via labels

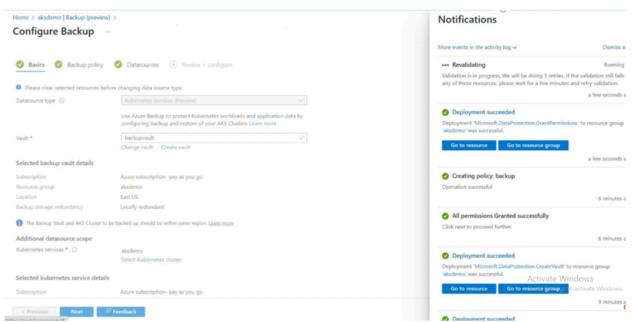
Backup Options Include:

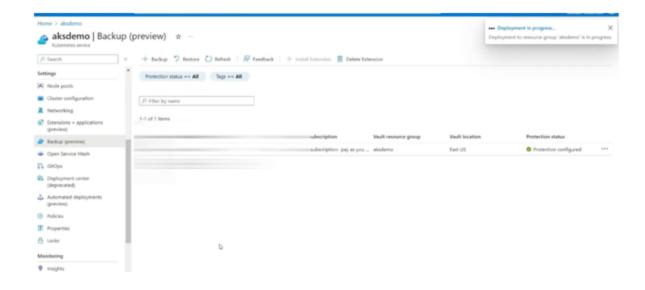
- Secrets \(\text{\ti}}\text{\tetx{\text{\texi}\text{\text{\text{\text{\texi}\text{\text{\text{\texi}\text{\text{\texi}\text{\text{\text{\texi}\titt{\text{\texi}\text{\text{\text{\texi}\text{\text{\t
- Persistent Volumes
- Cluster-scoped resources (f)









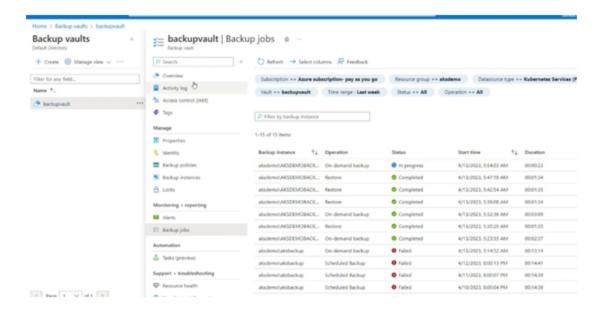


Remember to assign missing roles and validate.

Installing the AKS backup extension also creates a namespace: dataprotection-microsoft

Monitoring:

- Go to Backup Vault
- Click on **Backup Jobs** to track backup status



Restore Time!

- Delete test resources and perform a **restore** from the backup
- Navigate to: AKS Cluster → Backup → Restore
- Select the Kubernetes service, validate, and proceed

