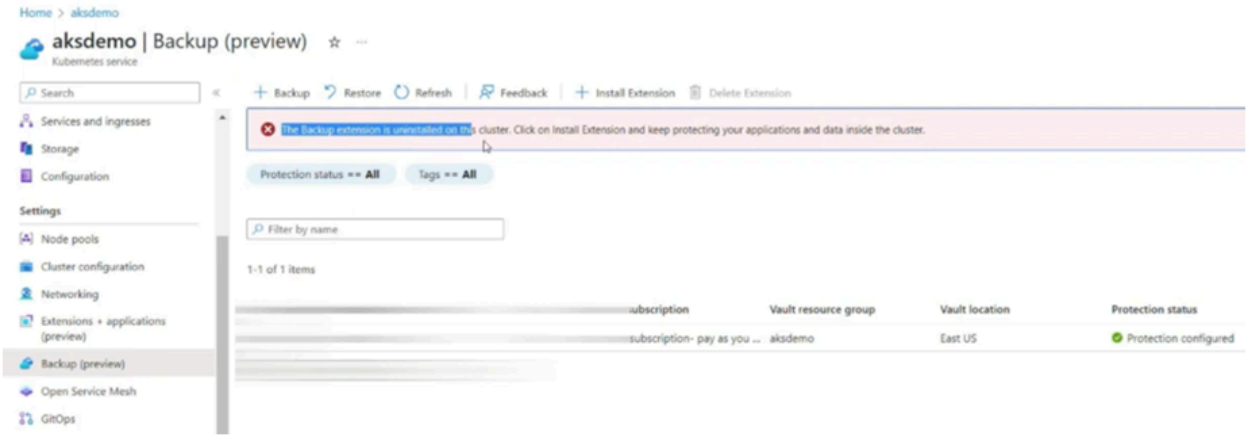
Submitted By: Arifa

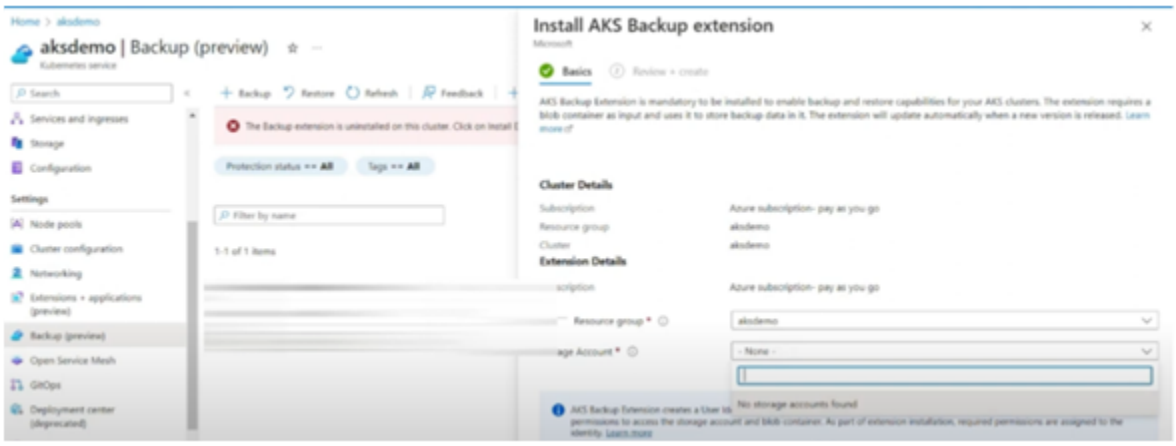
🚀 Backing Up AKS Cluster – Step-by-Step Guide! 💾☁️

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**

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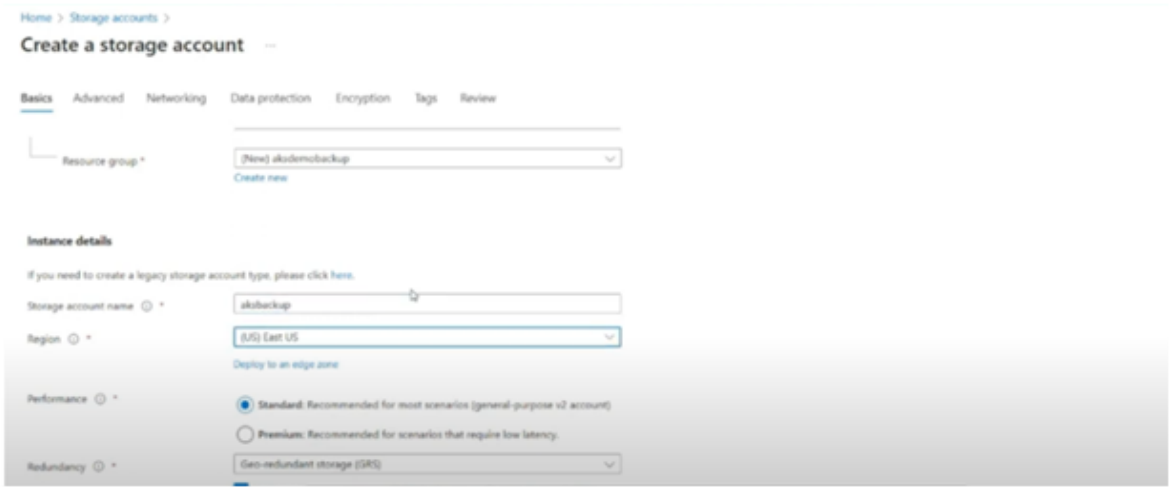

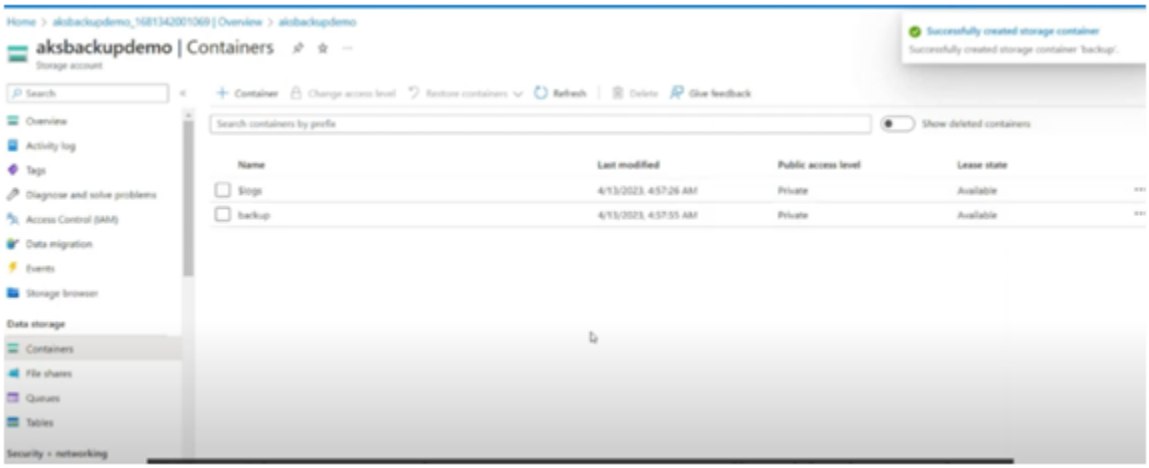

- **Step 3: Configure Backup**
  - Back in the AKS cluster, under Backup, install the extension if not already done
  - Create a **Backup Vault**
  - Click **Grant Permission** and wait ~60 seconds
  - Proceed to create a **Backup Policy**

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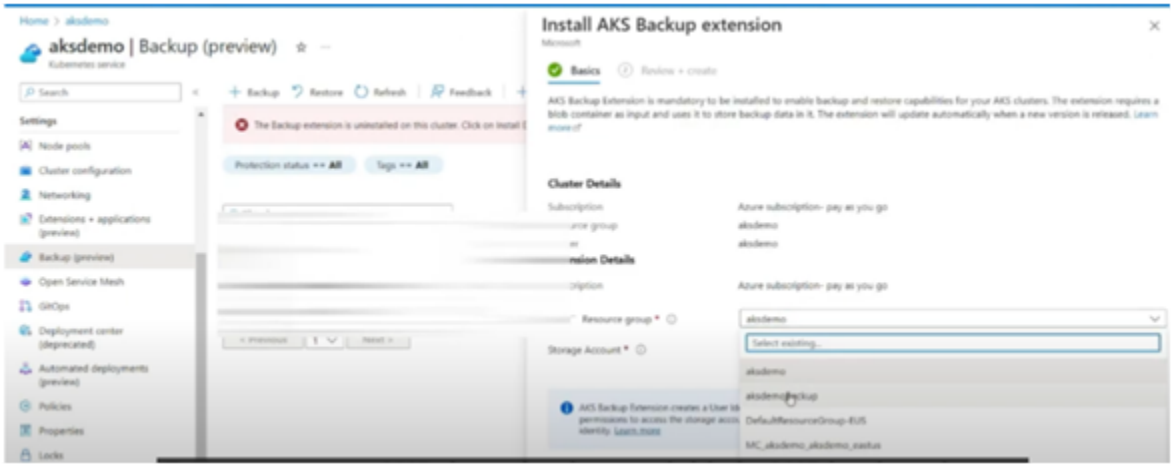

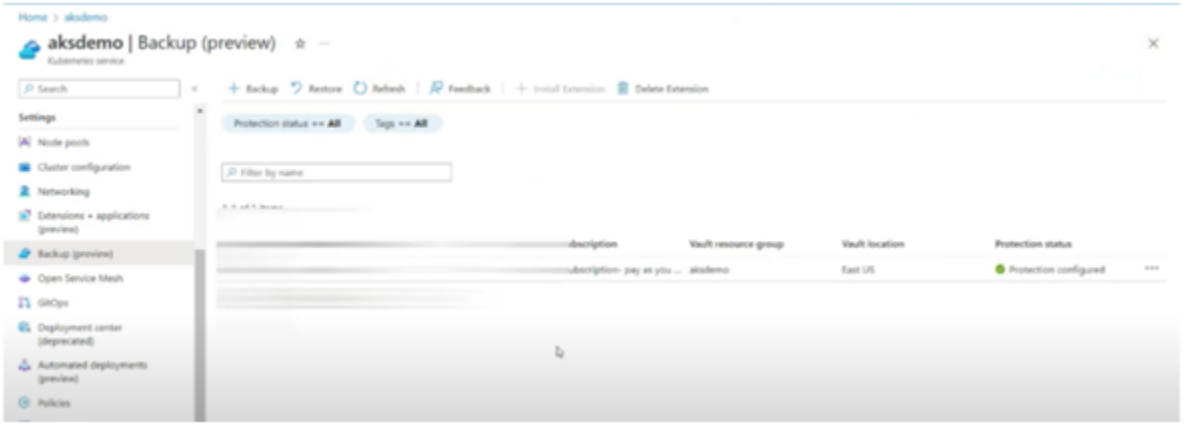

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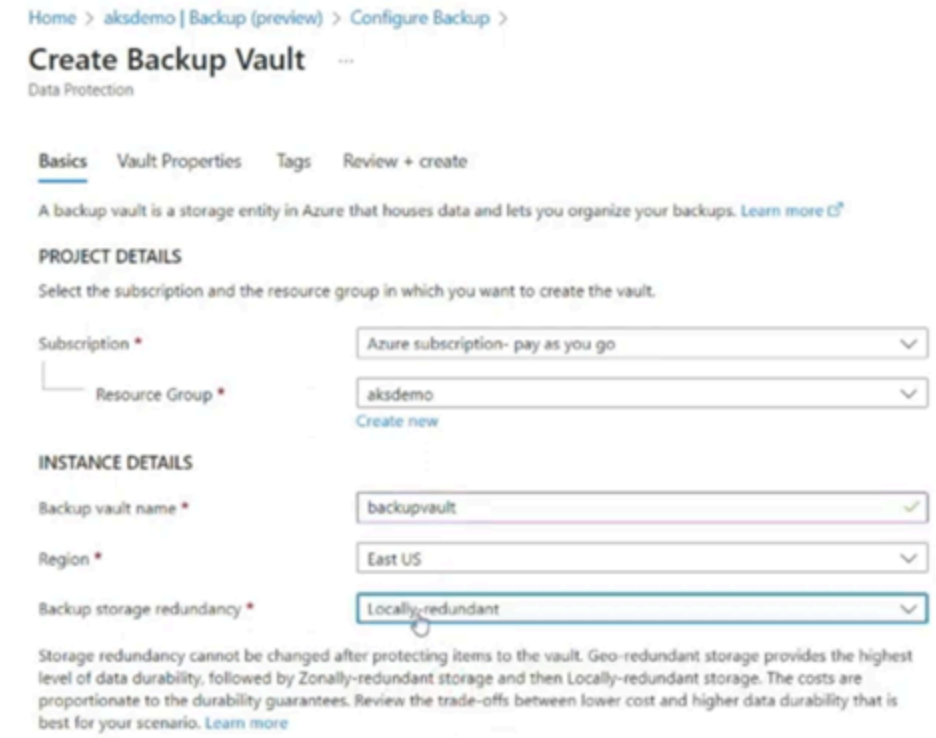

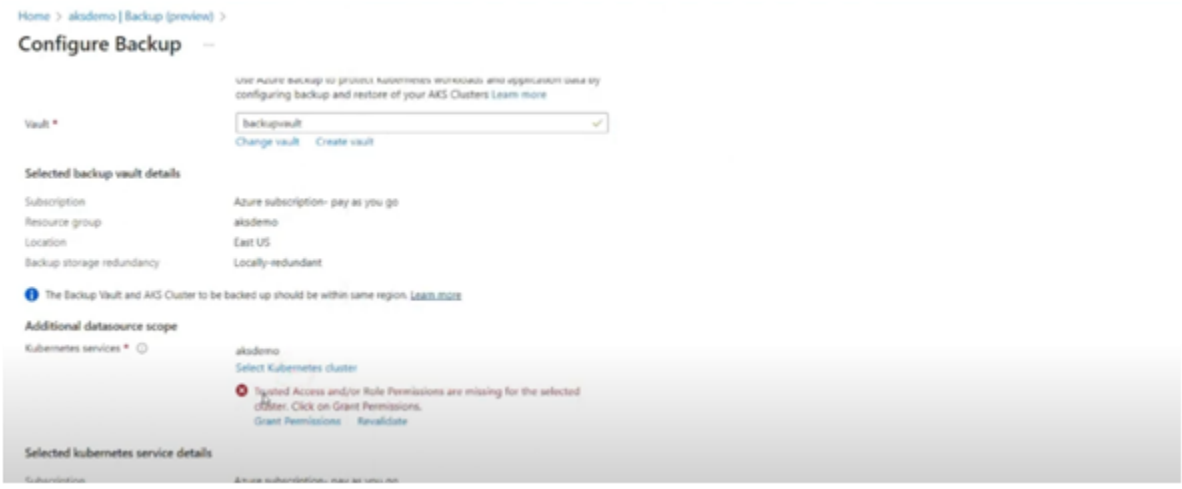

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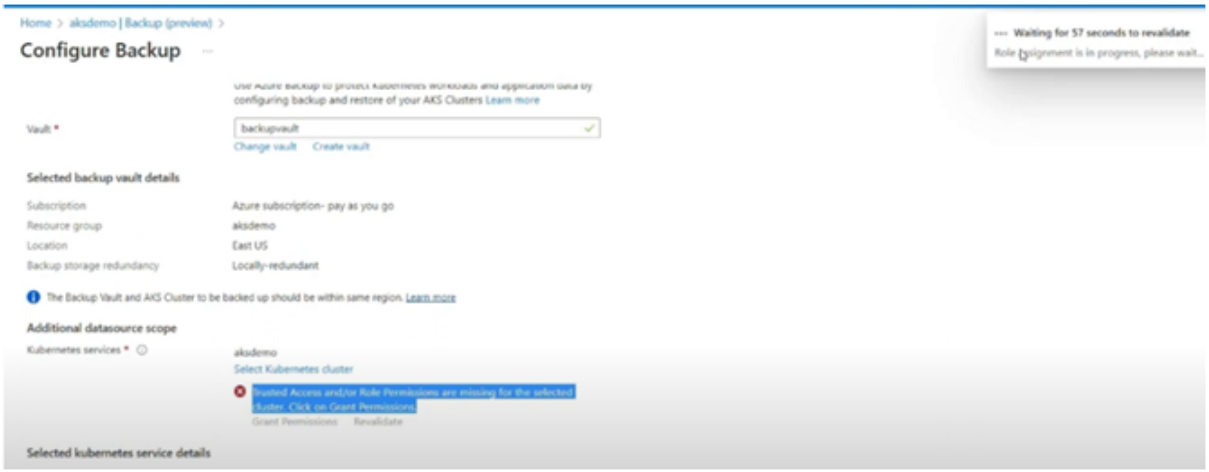

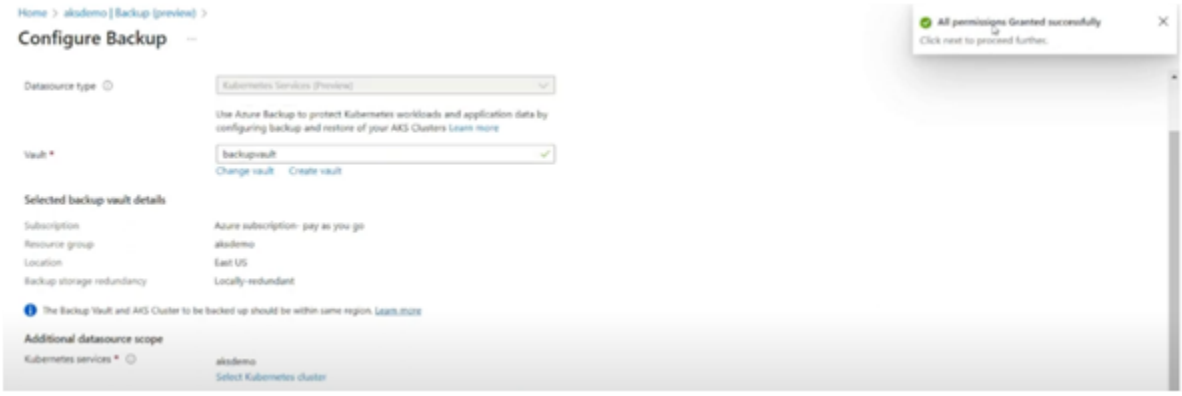

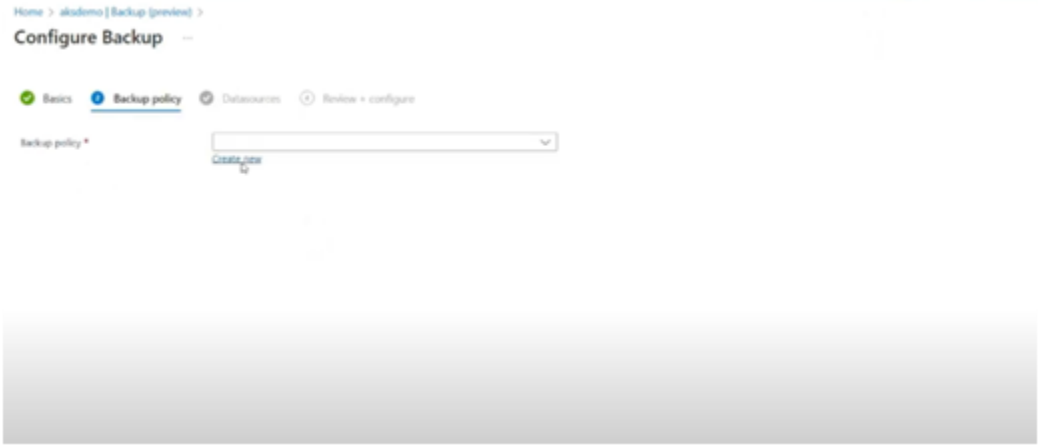

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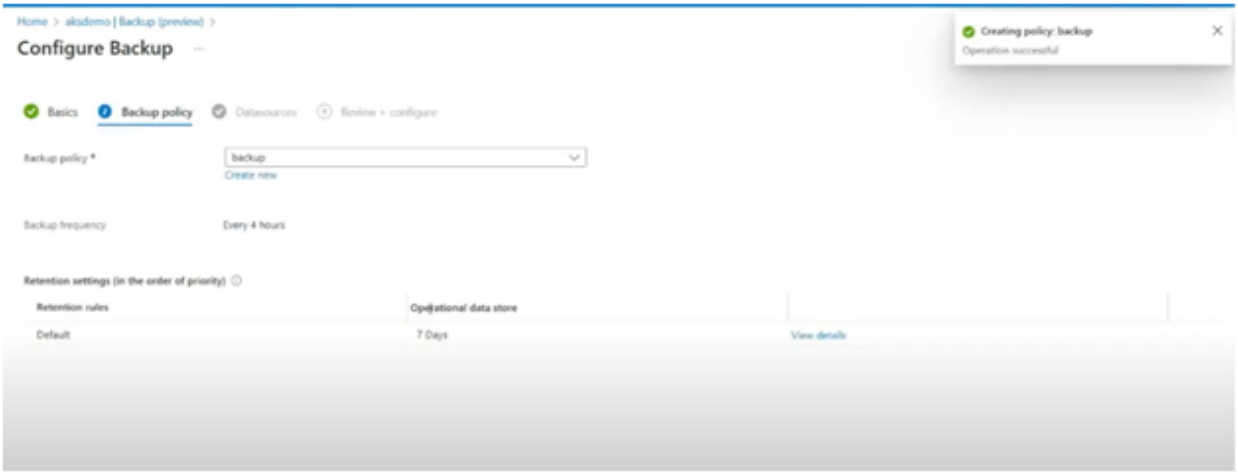

🎯 **You can choose to back up:**

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

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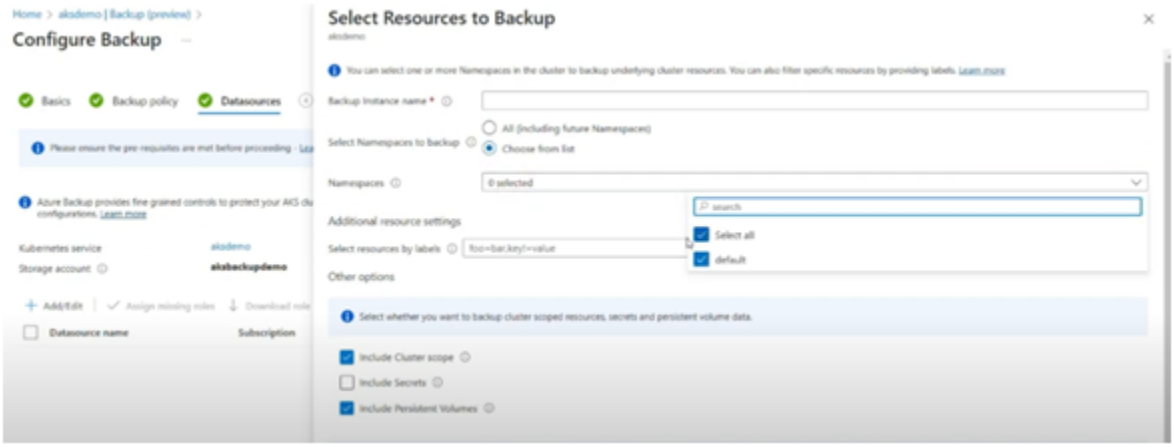
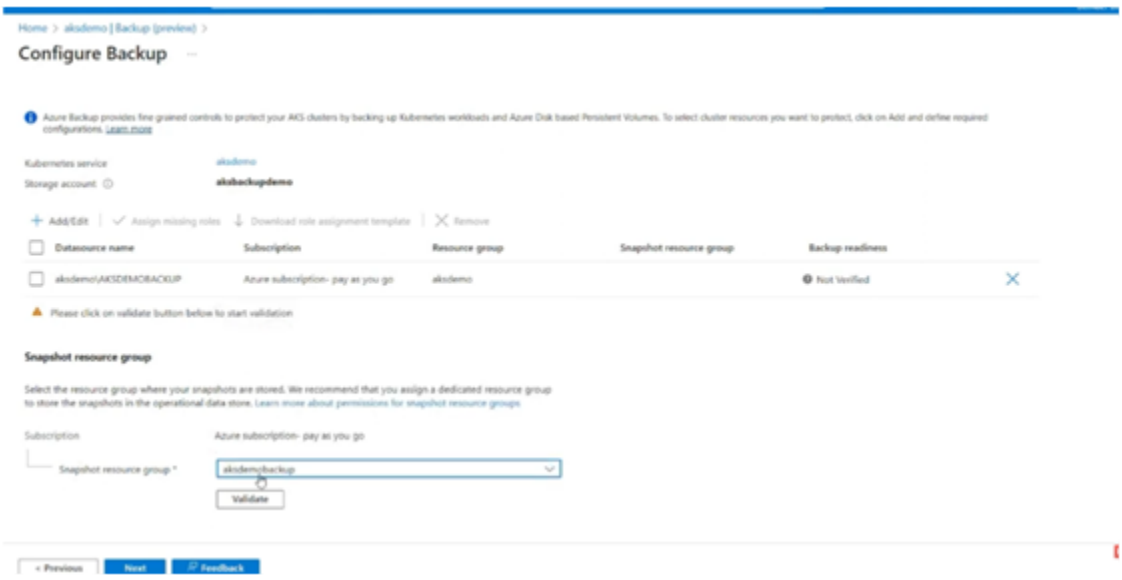
🛡️ Backup Options Include:

- Secrets 🔐
- Persistent Volumes 📦
- Cluster-scoped resources 🌐





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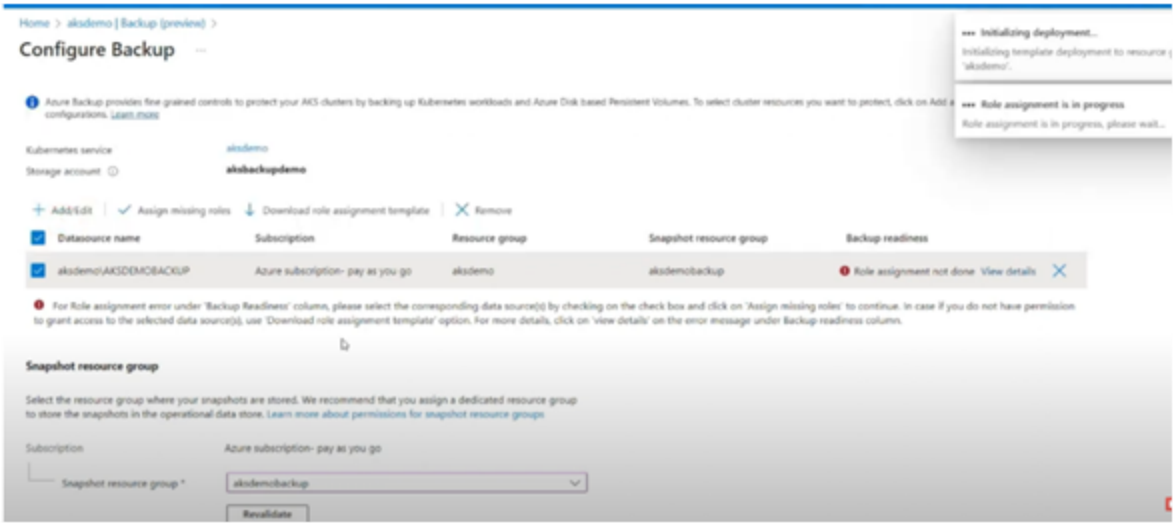

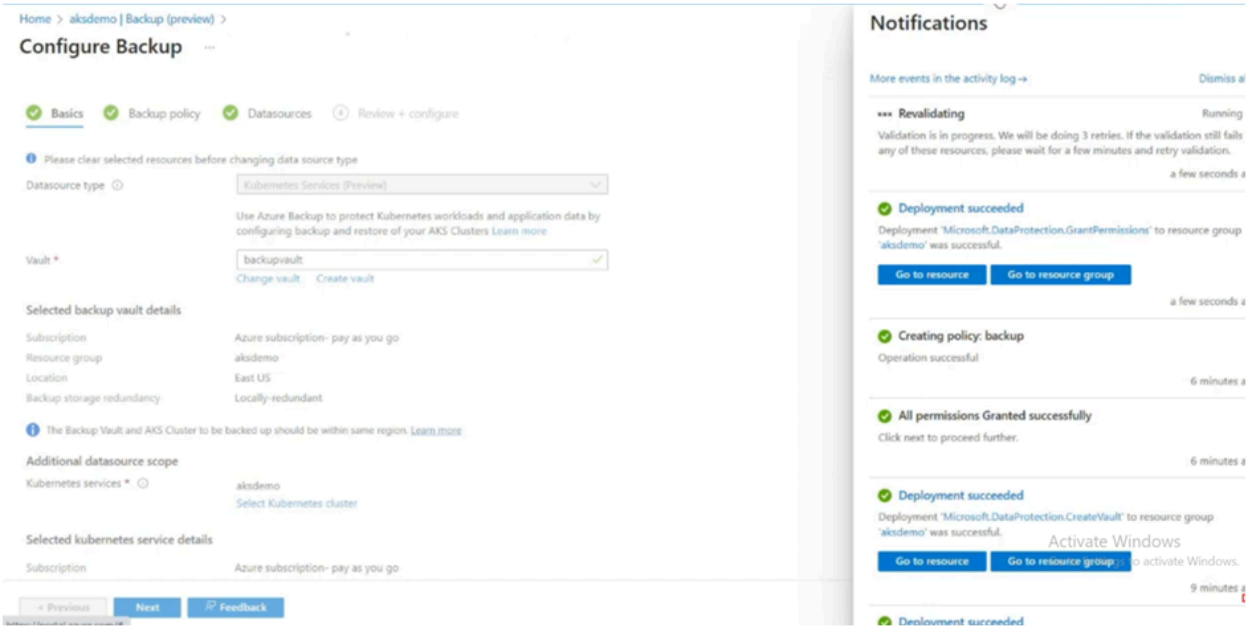

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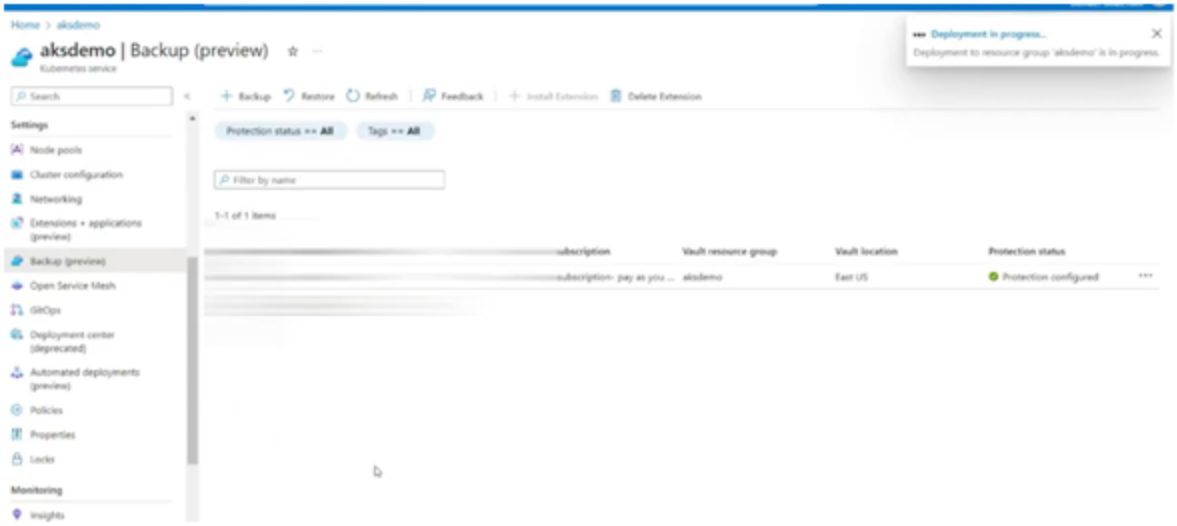

⚙️ **Remember to assign missing roles and validate.**
Installing the AKS backup extension also creates a namespace:
`dataprotection-microsoft`

📊 **Monitoring:**

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

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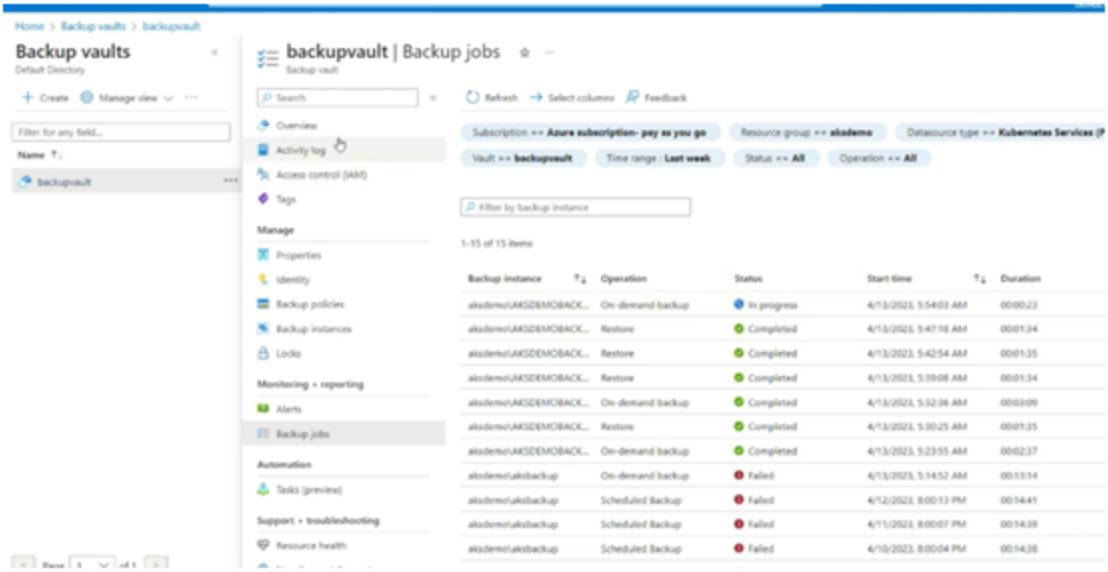
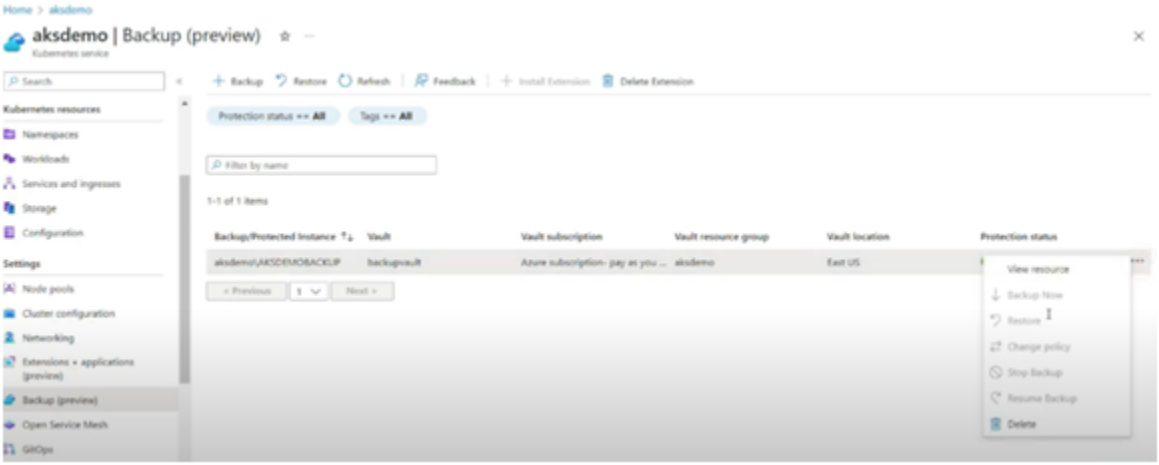


🧪 Restore Time!

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



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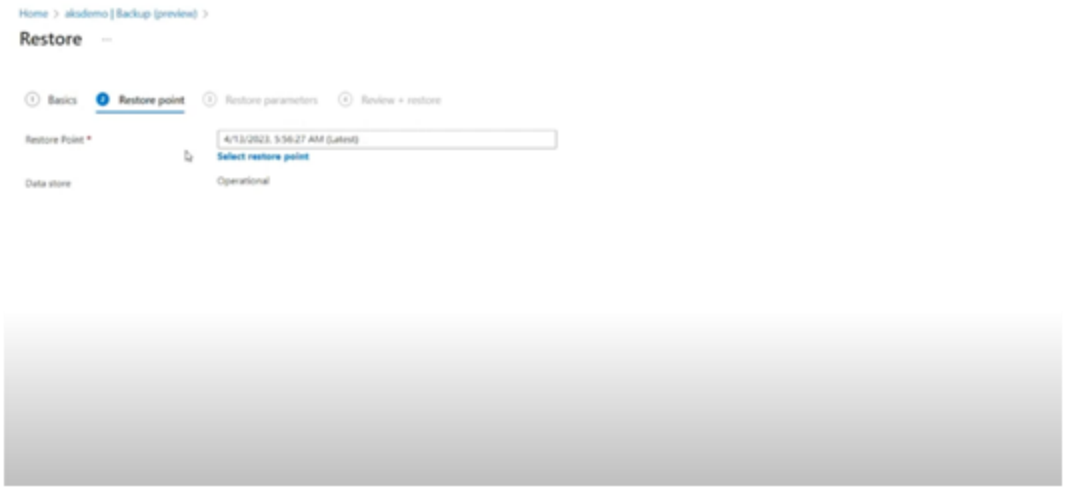

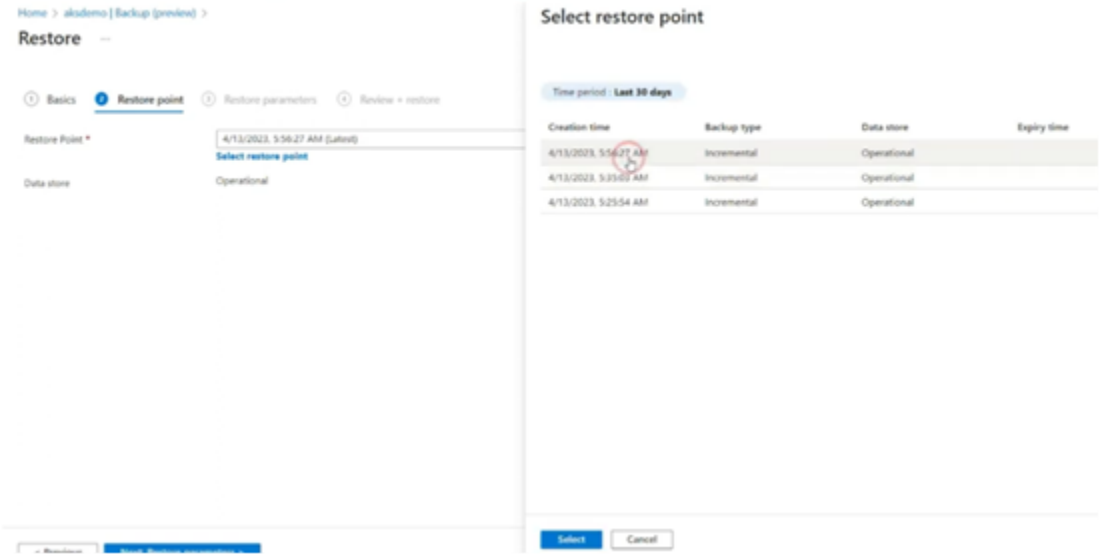
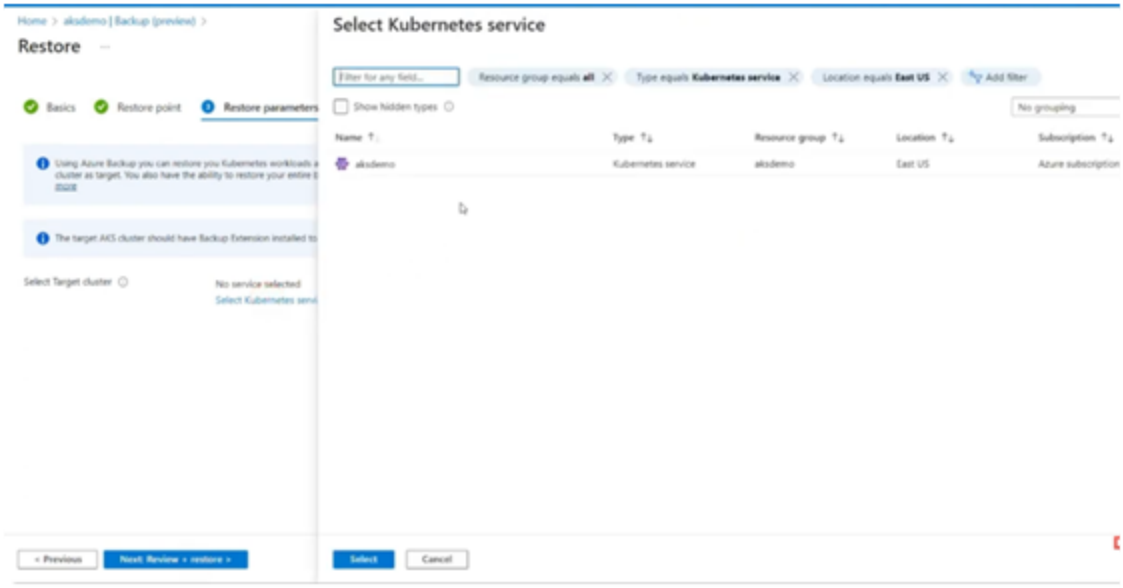
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