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# Disaster recovery with IBM cloud virtual servers

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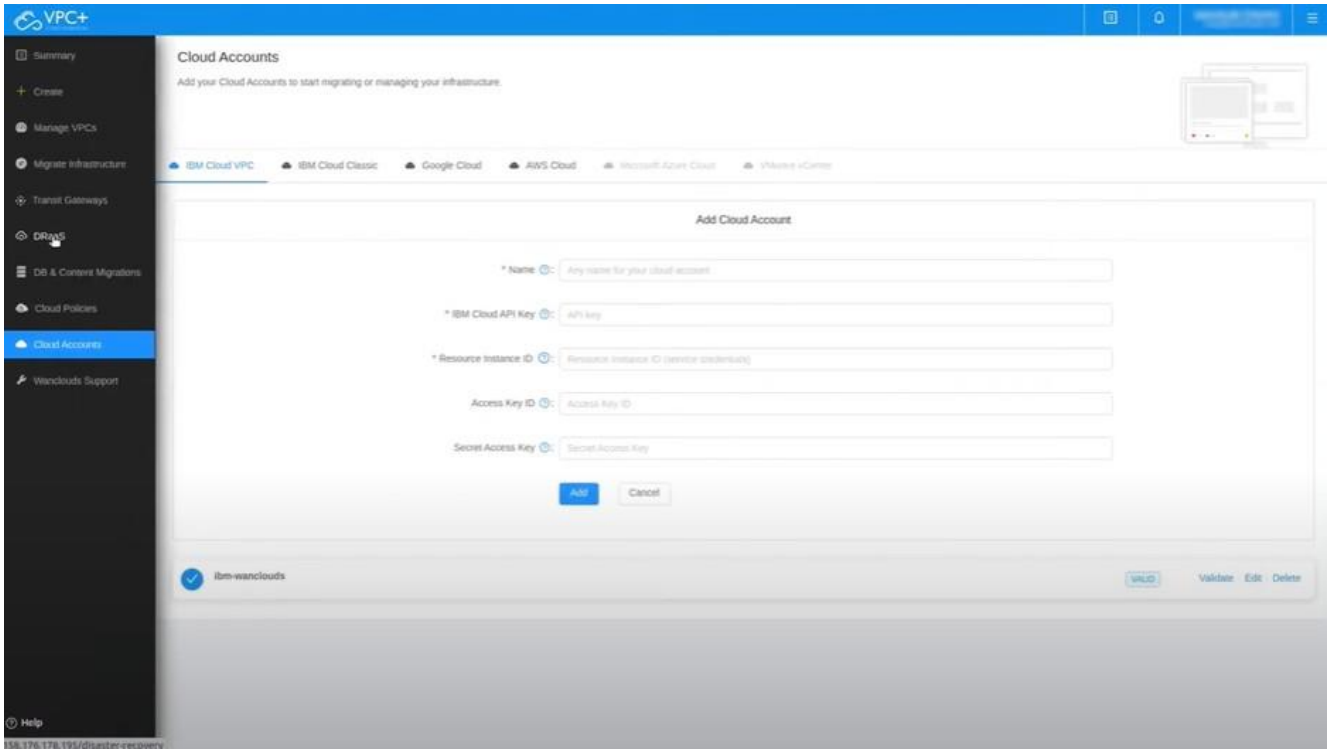
# Disaster recovery with IBM cloud virtual servers

## Problem Definition:

The objective of this project is to establish a comprehensive disaster recovery plan utilizing IBM Cloud Virtual Servers. The primary aim is to ensure the continuity of business operations in the face of unforeseen events that may disrupt our on-premises virtual machine infrastructure. This disaster recovery plan encompasses multiple phases, including defining the disaster recovery strategy, configuring backup and replication processes, validating recovery procedures, and ultimately ensuring seamless business continuity.

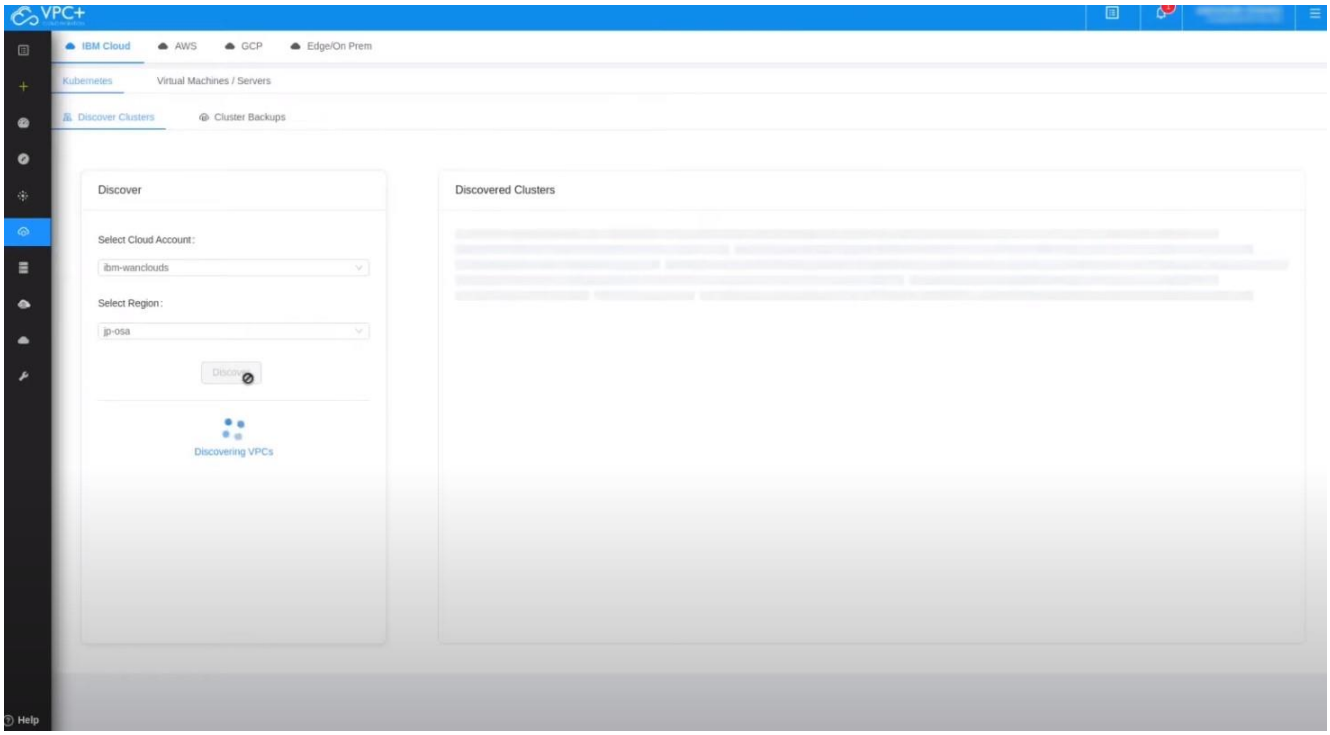
## Steps to Create Disaster Recovery Plan:

- First we need to add our cloud account.

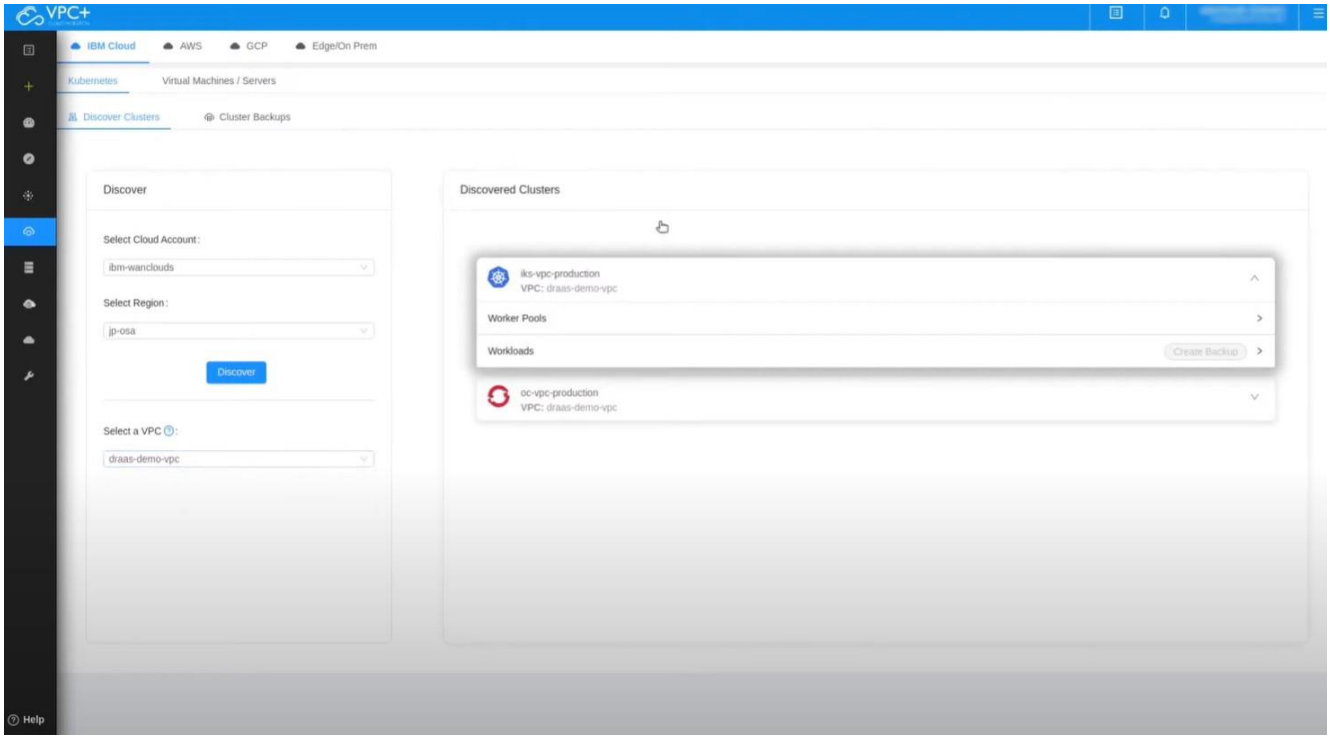


- Here we perform the discovery of your IBM cloud account . On left hand side select your  IBM cloud account and select the region where you want to perform discovery and go ahead and clock on  discover

- VPC plus not only discovers your infrastructure related information but also did a cluster level discovery so right now it is going to discover all the VPC within Osaka region their networking functions and all the resources attached to them along with that it will discover any Kubernetes or open shift clusters their workloads their storages and config maps.



- once the discover is complete the user can go ahead and select thevpc from within that region and cluster associated with that vpc will be displayed on the right hand side.

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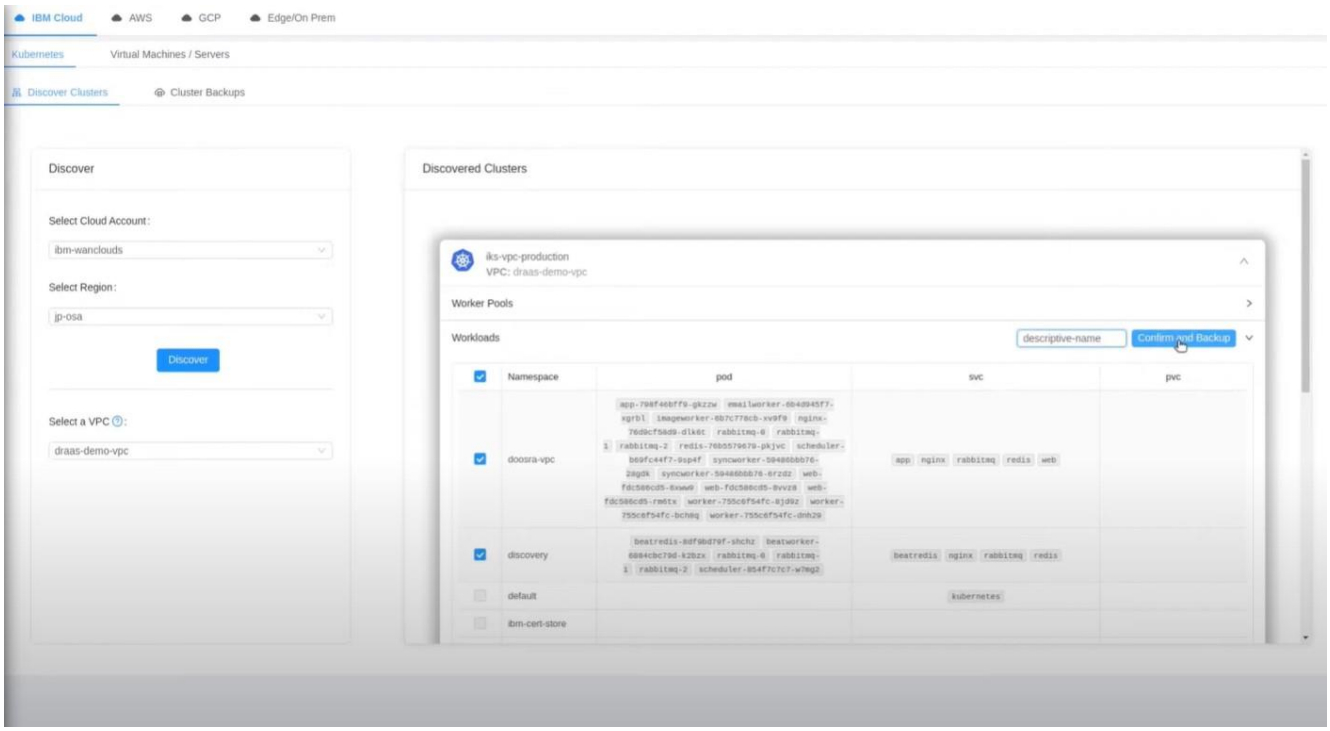
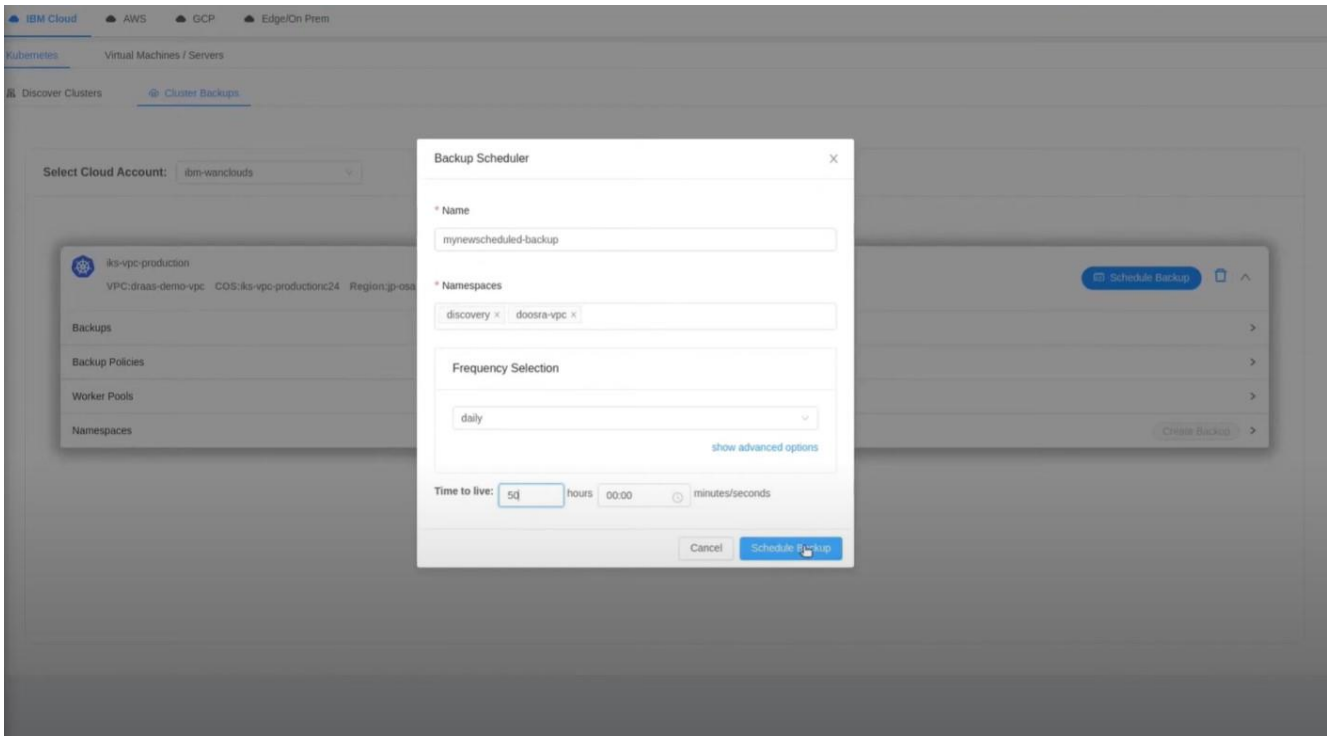
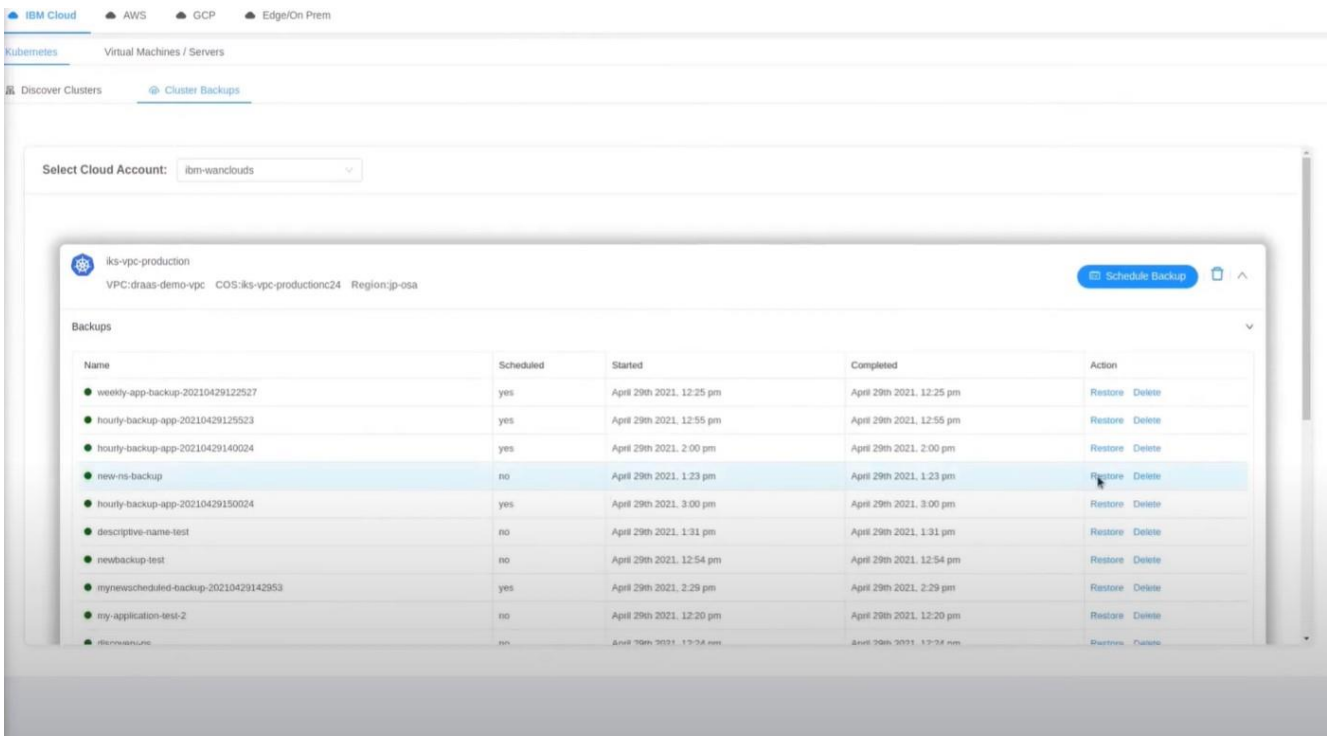
- To create a backup simply click on the cluster click on workloads select the namespaces hit create backup enter a descriptive and click on confirm and backup upon clicking confirm and backup VPC  plus will automatically create a bucket starting with the cluster name in users  cloud object storage it will then proceed to take a snapshot of  infrastructures blueprint and backup any data in that persistent volumes attached with the cluster and save it in the bucket created in user account  .



- To view your cluster backup simply click on the cluster click on backups a user has also the option to create the schedule backups simply click on schedule backup enter a descriptive name select the namespaces select the frequency paste on your RPO and select a time to live on your backup then click schedule backup.



- As you can see the infrastructure has been restored and application migrated .we have created disaster recovery plan.