

NetApp INSIGHT 2022 前沿技术深度解读系列课程,,

第四讲 《NetApp Backup SaaS and SnapCenter》

演讲者： 张益坚

日期：2022年12月2日



消除备份窗口

目录

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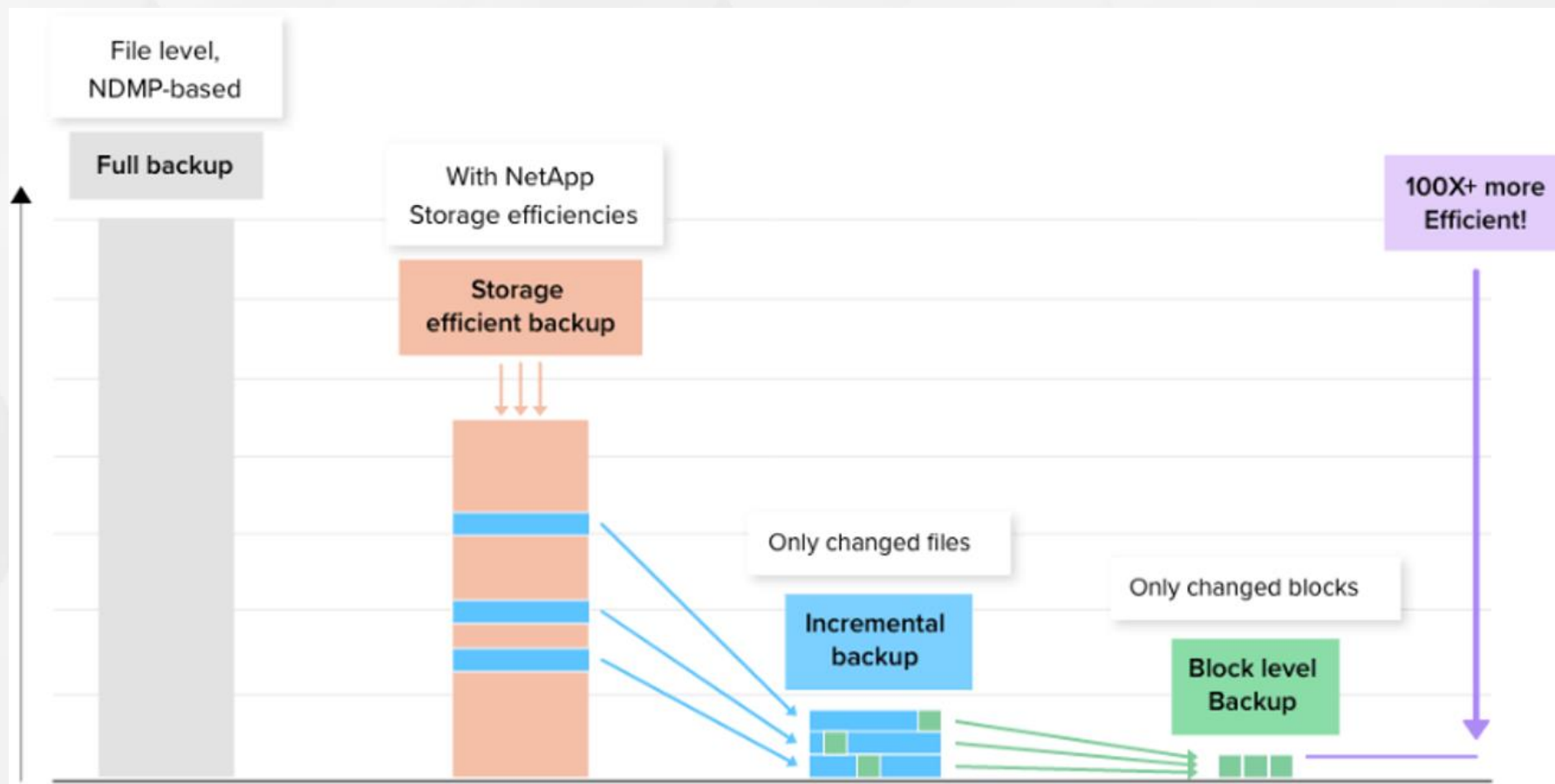
1. Backup SaaS
2. SnapCenter

Backup SaaS (CloudManager/BlueXP)

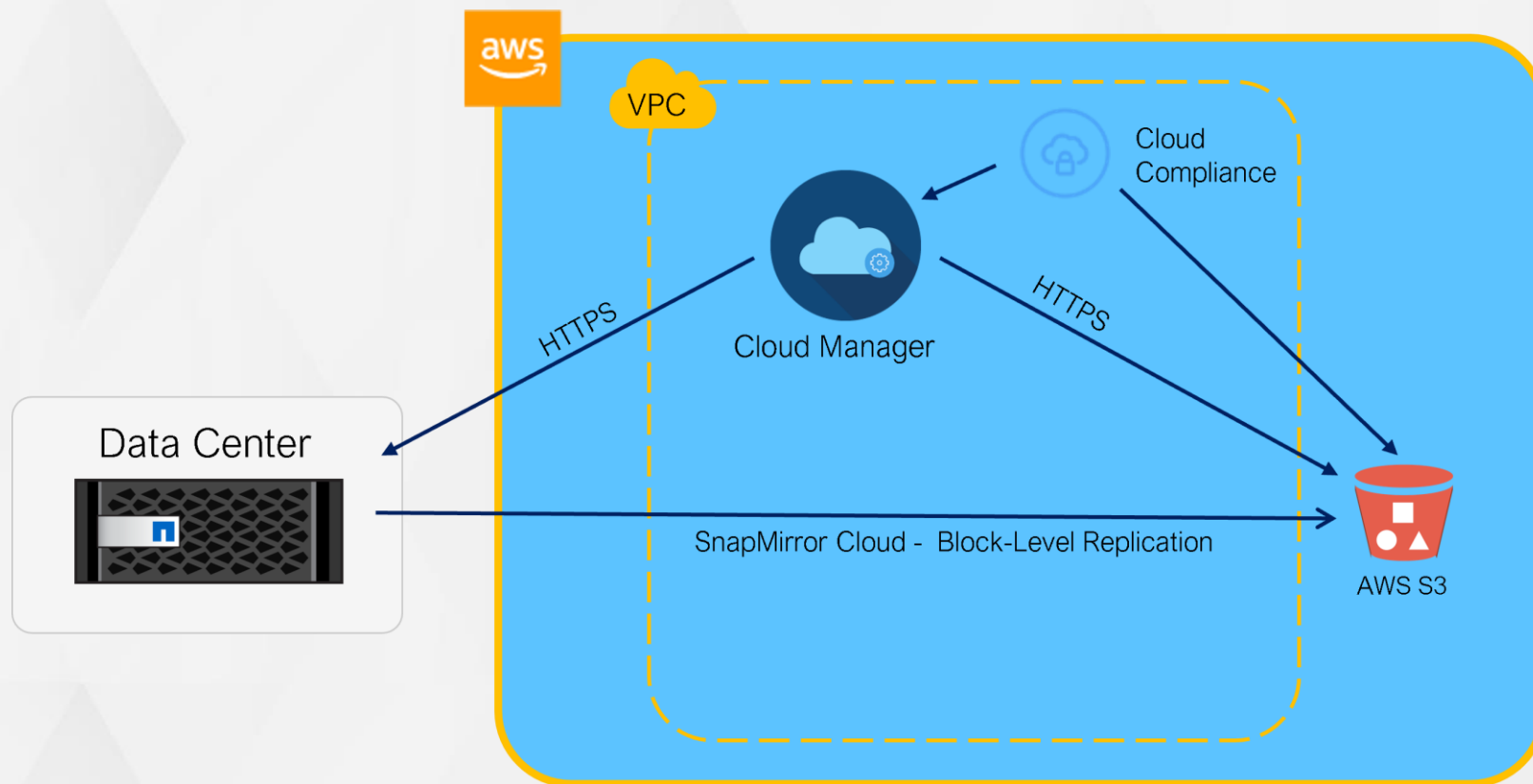
NetApp备份方案特点

	传统文件级备份	NetApp的块级复制方式
存储效率 	文件级备份会 丢失 存储效率(消重、压缩)效果。	块级复制的方式会 保留 全部FAS存储的存储效率（消重、压缩）效果，占用空间小。
性能 	文件级备份占用大量系统带宽，对业务性能造成 很大影响 。	块级复制非常快，对业务影响几乎为 零 。
可靠性 	不可靠 （对打开的文件、文件权限等情况处理不完善）。	可靠
SLA 	文件级备份需要 很长 的备份时间，有超出备份窗口的风险。	块级复制采用增量复制的方式，可 满足 RPO/RTO。

NetApp备份方案特点（续）



混合云备份架构



在BlueXP里配置备份

1

**Select**

Choose your Cloud
Volumes or on-premises
ONTAP cluster

2

**Activate**

Set your backup retention
policy for the selected
volumes

3

**Done**

Sit back and relax, no
need to configure
anything else



Let's Add Your First Working Environment

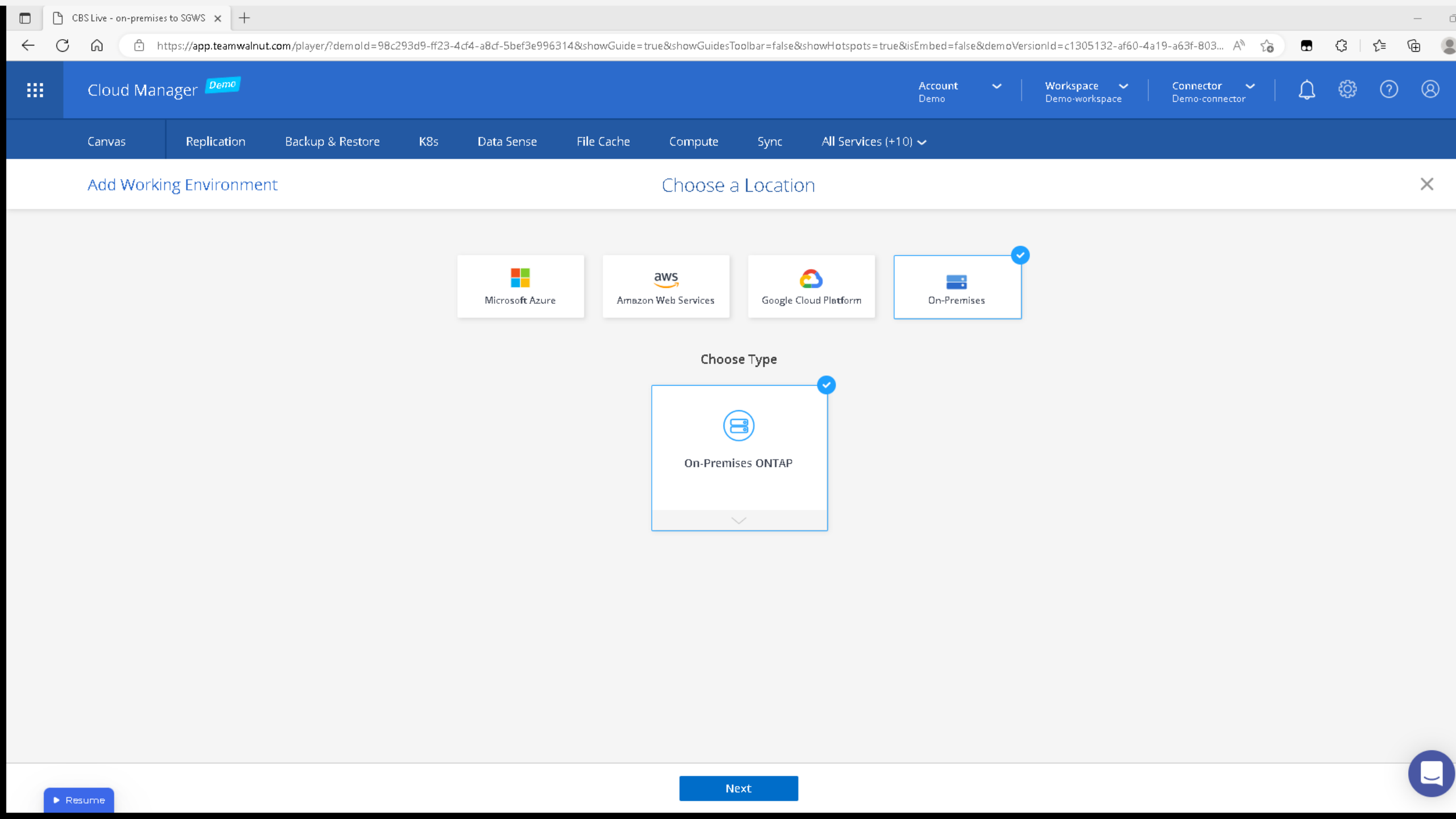
This is how you deploy, allocate or discover your cloud storage.
(Cloud Volumes ONTAP, Cloud Volumes Service, FSx for ONTAP, on-prem ONTAP or S3 buckets.)

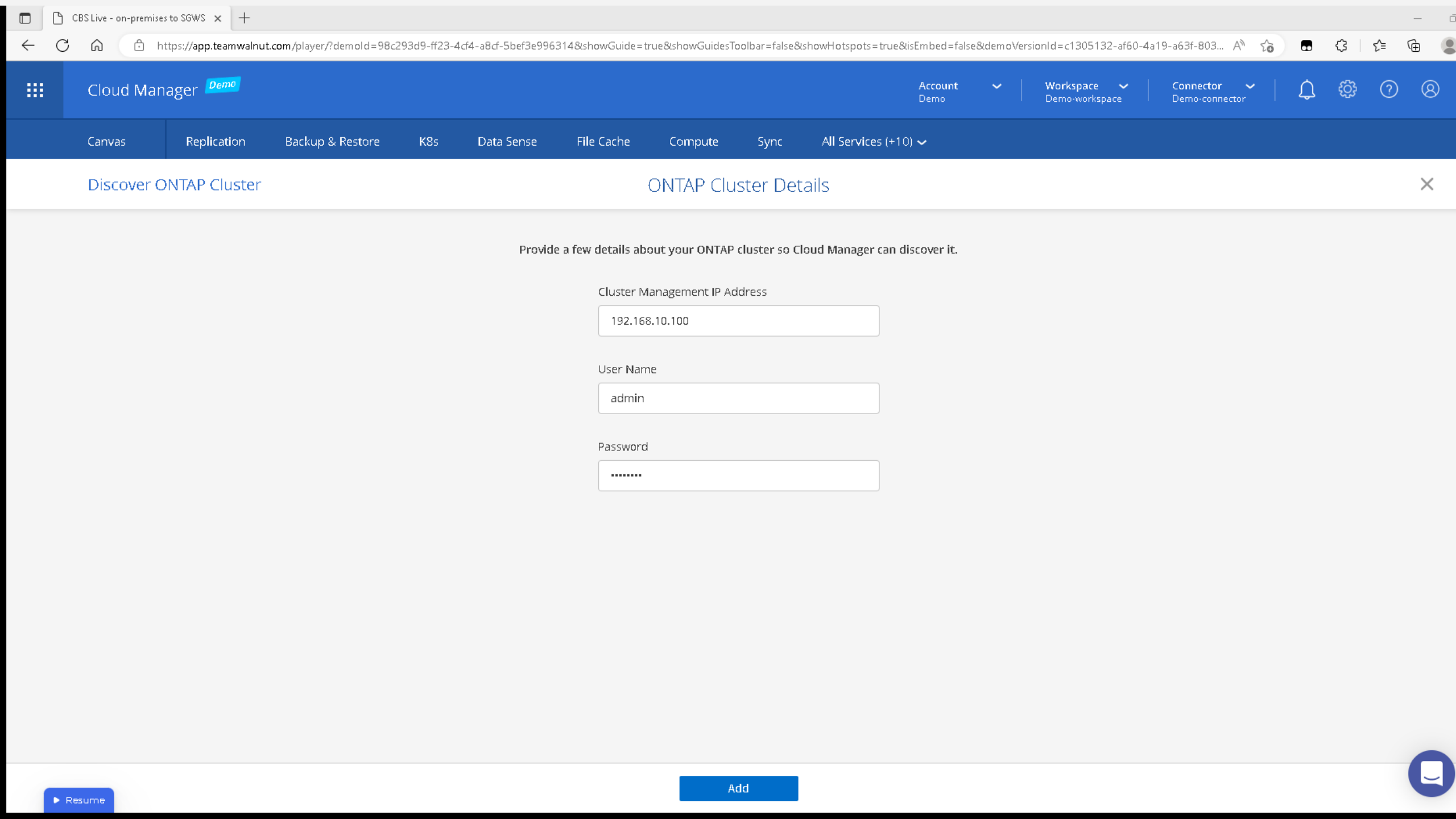
Add Working Environment

Continue playing
the last guide

▶ Resume







Discover ONTAP Cluster

ONTAP Cluster Details

Provide a few details about your ONTAP cluster so Cloud Manager can discover it.

Cluster Management IP Address

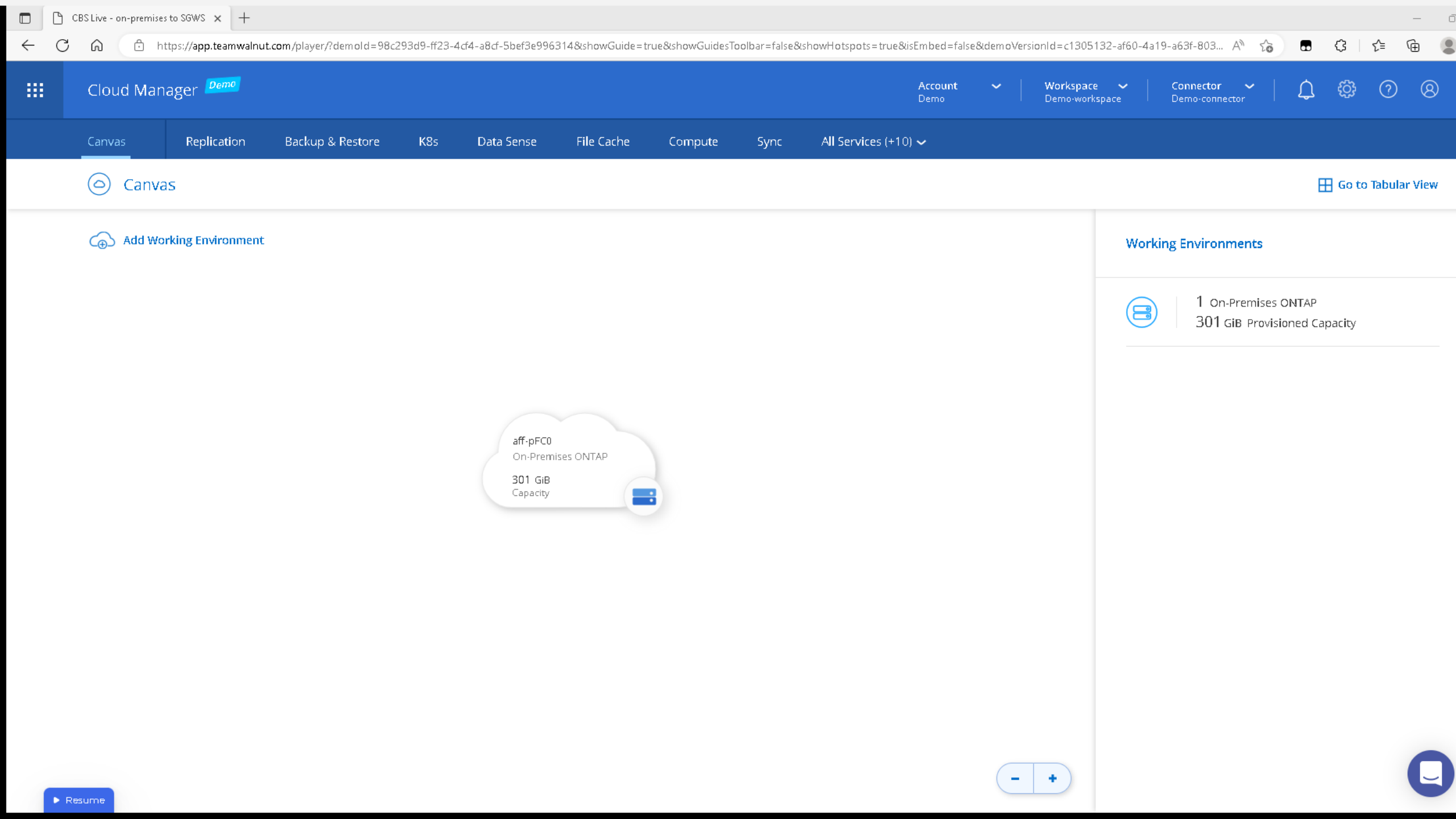
User Name

Password

Add

Resume





Cloud Manager Demo

Account Demo

Workspace Demo-workspace

Connector Demo-connector



Canvas

Replication

Backup & Restore

K8s

Data Sense

File Cache

Compute

Sync

All Services (+10)

Canvas

Go to Tabular View

Add Working Environment

aff-pFC0
On-Premises ONTAP
301 GiB
Capacity

Working Environments

1 On-Premises ONTAP
301 GiB Provisioned Capacity

Resume



CBS Live - on-premises to SGWS

https://app.teamwalnut.com/player/?demoId=98c293d9-ff23-4cf4-a8cf-5bef3e996314&showGuide=true&showGuidesToolbar=false&showHotspots=true&isEmbed=false&demoVersionId=c1305132-af60-4a19-a63f-803...

Cloud Manager

Account Demo

Workspace Demo-workspace

Connector Demo-connector

Notifications

Settings

Help

User

Canvas

Replication

Backup & Restore

K8s

Data Sense

File Cache

Compute

Sync

All Services (+10)

Canvas

Go to Tabular View

Add Working Environment

aff-pFC0

On-Premises ONTAP

301 GiB Capacity

aff-pFC0

On

DETAILS

On-Premises ONTAP

SERVICES

Replication

Off

Enable

Backup & Compliance

Off

Enable

Data Sense

Off

Enable

Tiering

Unavailable

Monitoring

Coming Soon

File Cache

Enter Working Environment

Resume

CBS Live - on-premises to SGWS

+

←

→

↺

🏠

🔒

https://app.teamwalnut.com/player/?demoId=98c293d9-ff23-4cf4-a8cf-5bef3e996314&showGuide=true&showGuidesToolBar=false&showHotspots=true&isEmbed=false&demoVersionId=c1305132-af60-4a19-a...

🔊

★

🖨

⚙

🔖

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👤

☐☐☐

Cloud Manager Demo

Account Demo ▾

Workspace Demo-workspace ▾

Connector Demo-connector ▾

🔔

⚙

?

👤

Canvas

Replication

Backup & Restore

K8s

Data Sense

File Cache

Compute

Sync

All Services (+10) ▾

🔗 Activate Backup

1 Select Provider

2 Provider Settings

3 Define Policy

4 Select Volumes

✕

Select Provider

aws

Amazon Web Services

Microsoft Azure

Google Cloud

StorageGRID

StorageGRID

Continue playing the last guide

▶ Resume

Next

💬

CBS Live - on-premises to SGWS

https://app.teamwalnut.com/player/?demoId=98c293d9-ff23-4cf4-a8cf-5bef3e996314&showGuide=true&showGuidesToolBar=false&showHotspots=true&isEmbed=false&demoVersionId=c1305132-af60-4a19-a63f-803...

Cloud Manager

Demo

Account

Demo

Workspace

Demo-workspace

Connector

Demo-connector

Canvas

Replication

Backup & Restore

K8s

Data Sense

File Cache

Compute

Sync

All Services (+10)

Activate Backup

✓

Select Provider

✓

Provider Settings

3

Define Policy

4

Select Volumes

Provider Settings

Notice : There is no option to change the provider settings after the service has started

Provider Information

Storage Server

sgws1.demo.org

Access Key

MYIASGWSCSACCESSXKEY

Secret Key

Connectivity

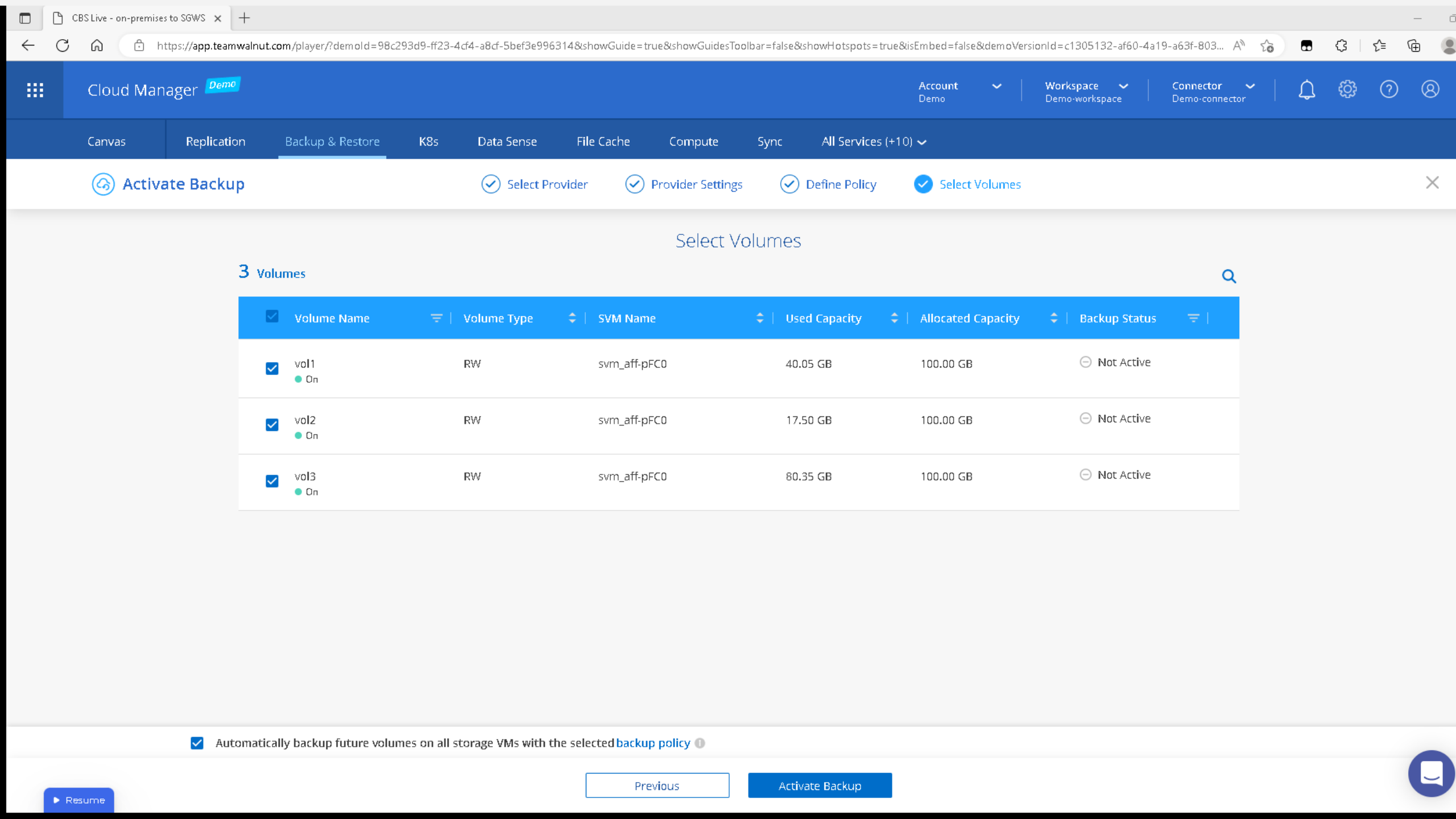
IPspace

Default

Resume

Previous

Next



All Working Environments (1) ▾

Backup Settings



1

Working Environments



3

Protected Volumes



137.90 GB
Total Backups Size

Protected Volumes Status

✓ 3

Healthy Backup Volumes

ⓘ

Failed Backup Volumes

3 Backups



Source Working Environment	Source Volume	Source SVM	Last Backup	Backups	Backup Status	
 aff-pFC0 ■ On	vol1 ■ On	svm_aff-pFC0	Feb 20 2022, 10:08:15 ...	1 Backup	✔ Active	...
 aff-pFC0 ■ On	vol2 ■ On	svm_aff-pFC0	Feb 20 2022, 10:08:15 ...	1 Backup	✔ Active	...
 aff-pFC0 ■ On	vol3 ■ On	svm_aff-pFC0	Feb 20 2022, 10:08:15 ...	1 Backup	✔ Active	...



Cloud Backup for Applications

Integrated Data Protection for ONTAP primary

Powered by SnapCenter, delivers application-consistent data protection on to Cloud Object Storage as well as on NetApp Cloud Storage. With proliferation of applications data on cloud, managing these data is challenging and complex. Cloud Backup for Applications offers simplified data management to smoothen organizational IT operations and mitigates the risks associated with loss of application data.

Get started with Cloud Backup for Applications by deploying our connector.

Add a Connector



Streamlined data management

Manage your cloud native applicatons with one console



Save time & resources

Automated workflows without downtime save organizational resources

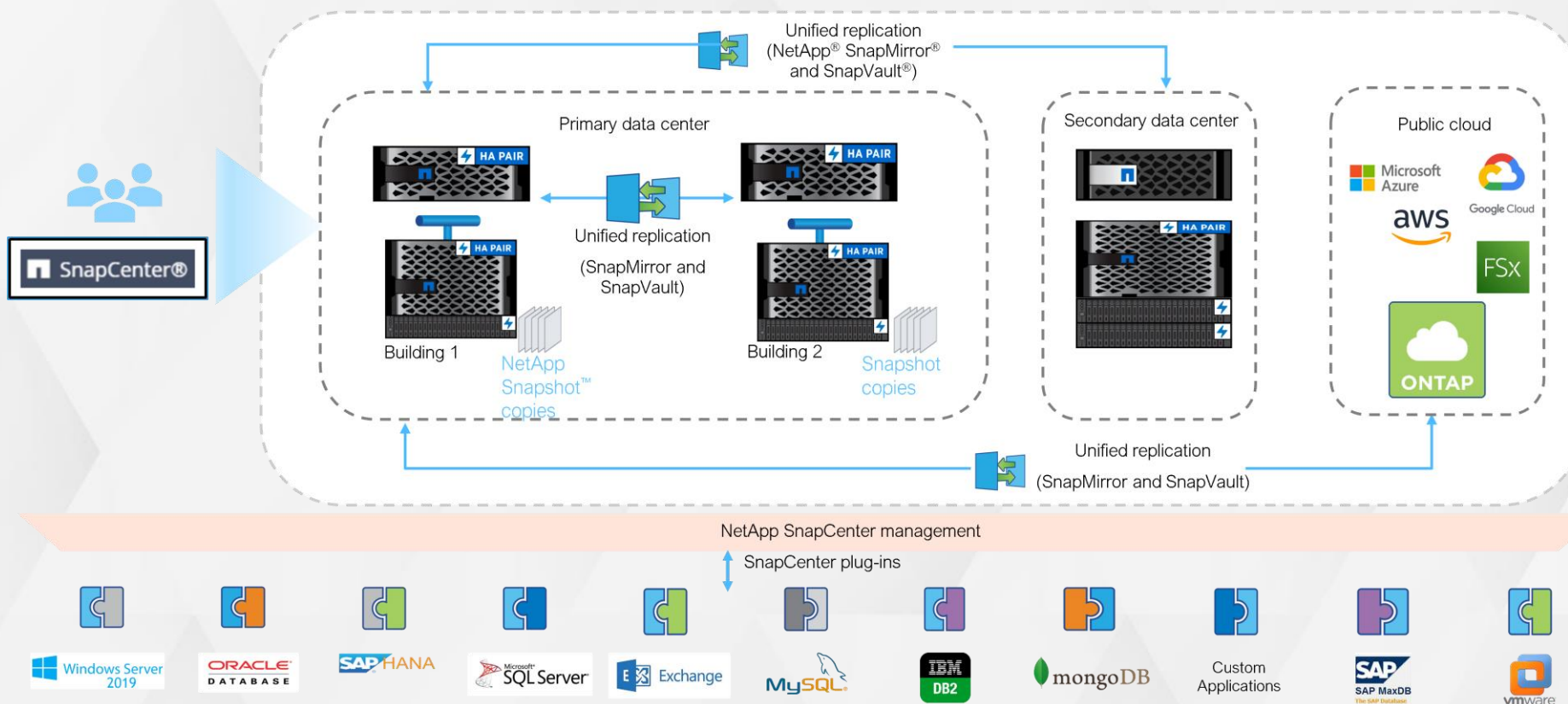


Protect data in minutes

Faster backup and restore operations help you to meet SLAs

SnapCenter

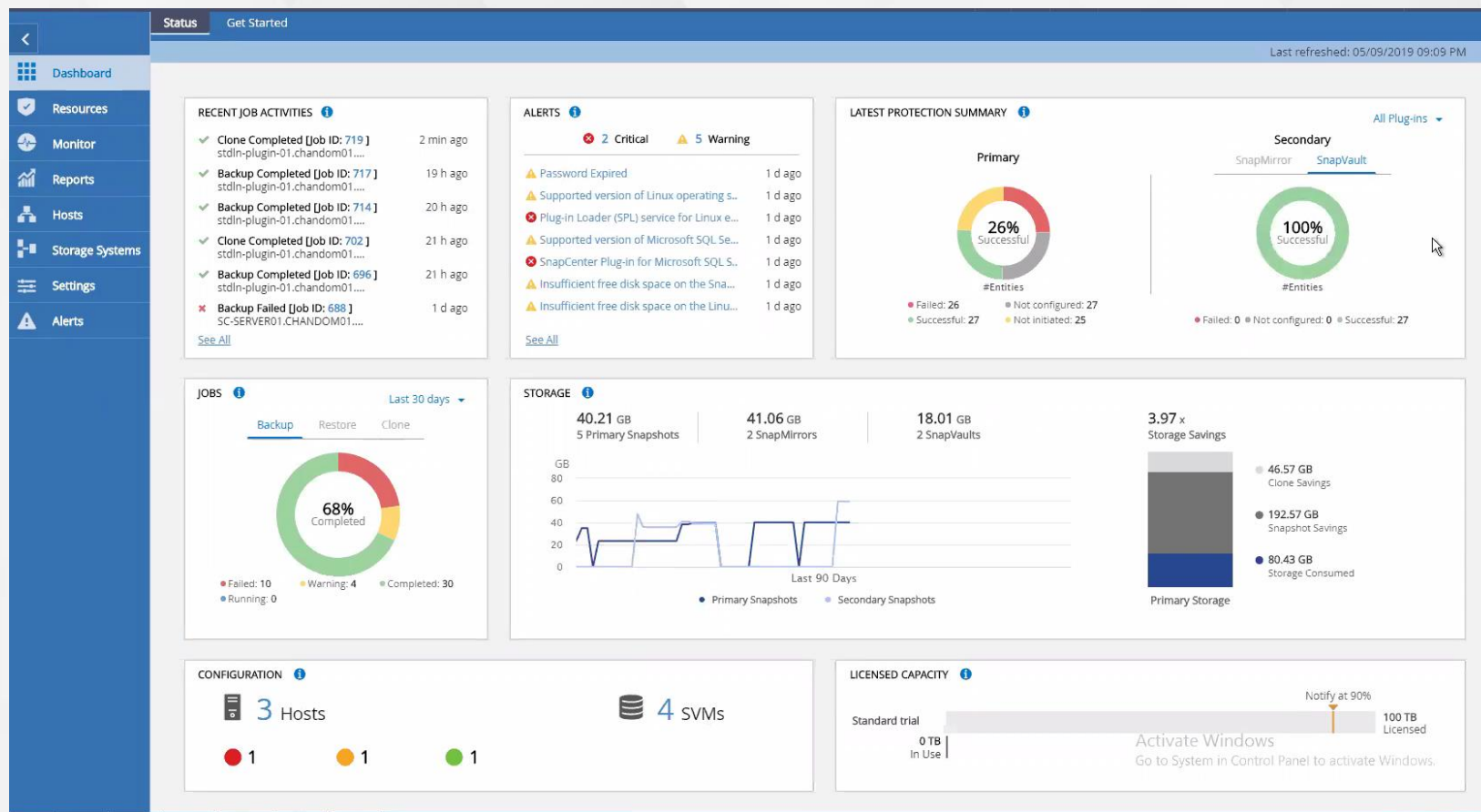
SnapCenter总览



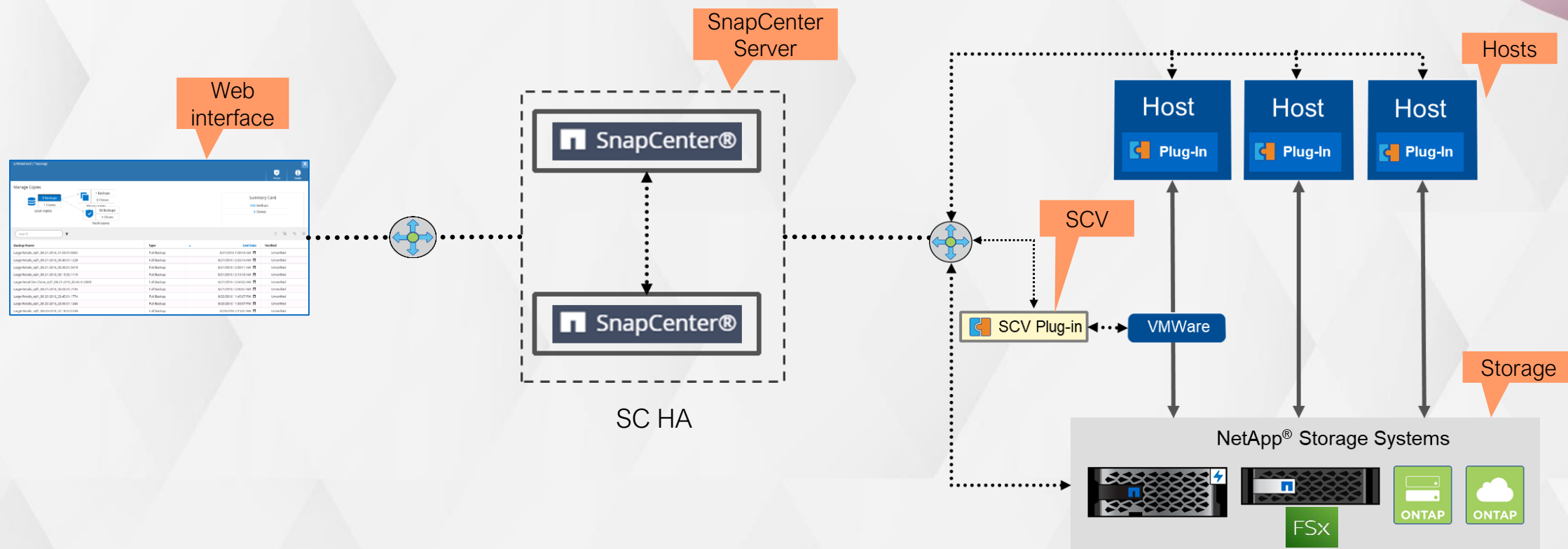
支持备份的应用系统

数据库	   
文件系统	
虚拟化	
定制插件	     
存储系统	   

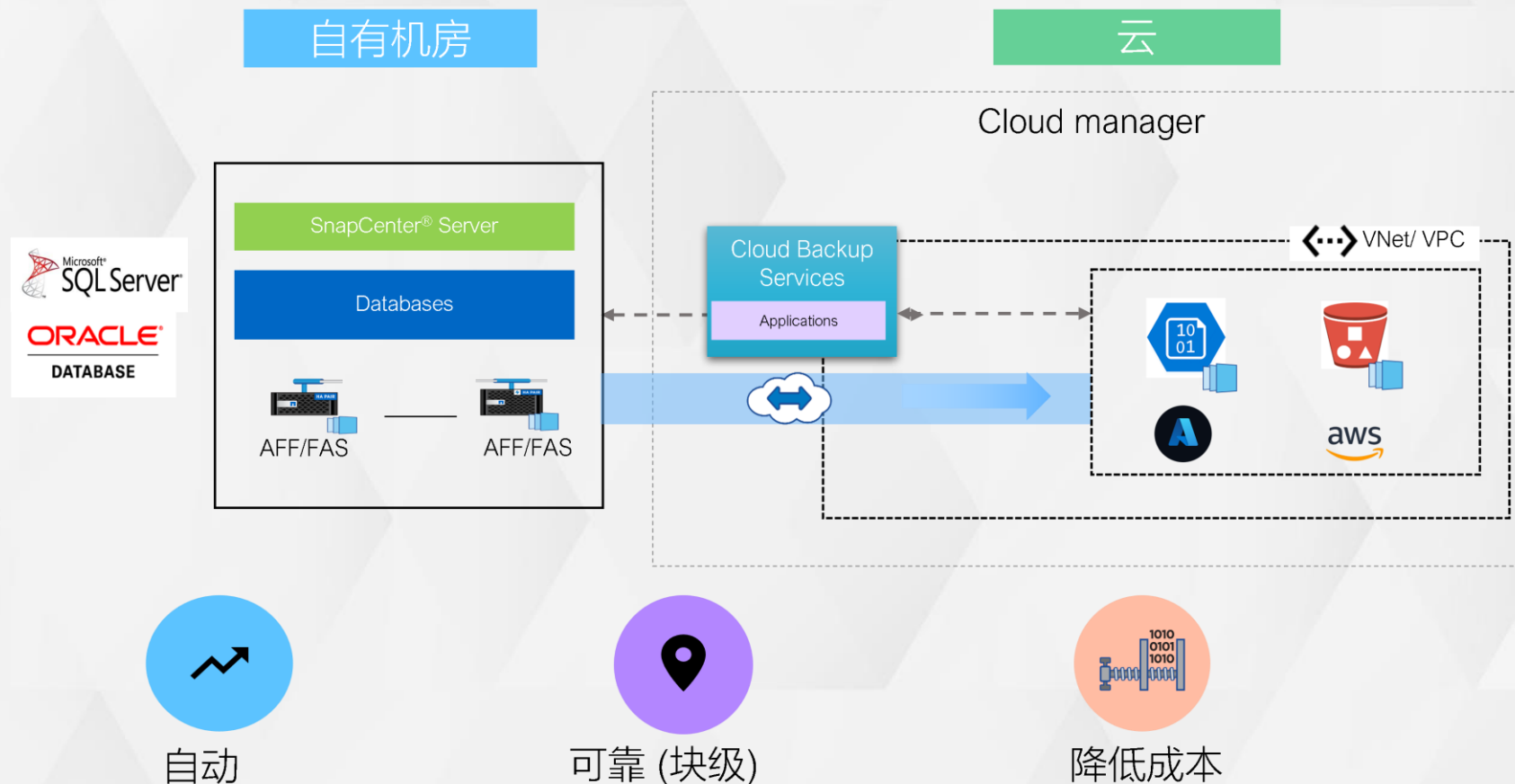
界面



架构



将业务备份到云



SnapCenter for VMware 恢复演示

- SnapCenter Plug-in for VMware vSphere
- Dashboard
- Settings
- Resource Groups
- Policies
- Storage Systems
- Guest File Restore

Dashboard

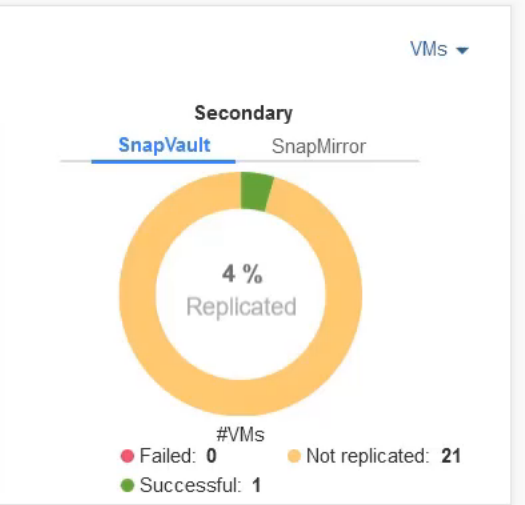
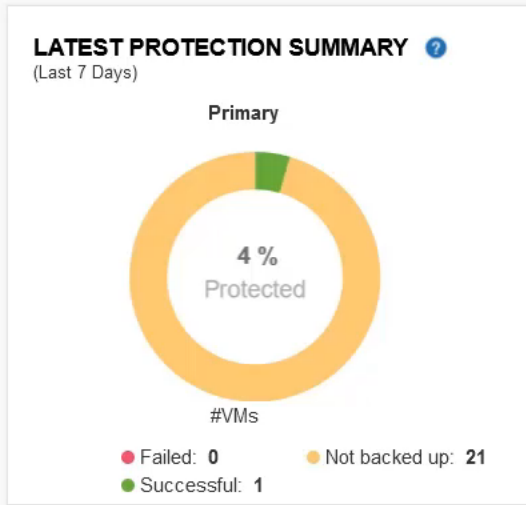
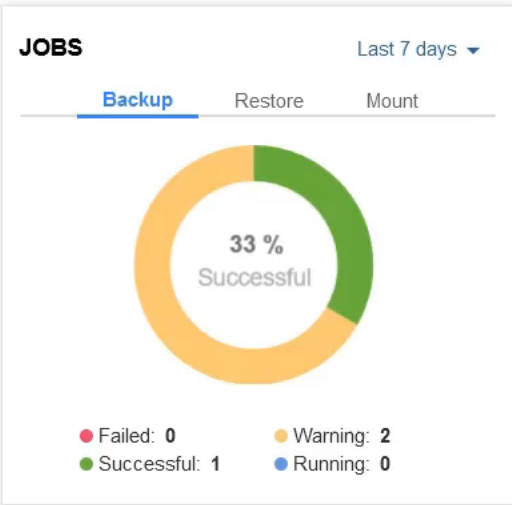
vCenter Server TME-FUJI-51-30.nb.openenglab.netapp.com

- Status
- Job Monitor
- Reports
- Getting Started

RECENT JOB ACTIVITIES

Backup Successful	[Job ID: 9]	4 min ago
flexgroup_vm67		
Backup Warning	[Job ID: 6]	9 min ago
flexgroup_vm67		
Backup Warning	[Job ID: 2]	1 h ago
flexgroup_vm67		

[See All](#)



Recent Tasks

Task Name	Target	Status	Details	Initiator	Queued For	Start Time	Completion Time	Server
NetApp Resource Group Backup	TME-FUJI-51-30.nb...	Completed		VSPHERE.LOCAL\Admi...	10 ms	06/06/2021, 7:44:40 PM	06/06/2021, 7:46:11 PM	TME-FUJI-51-30.nb.ope...

vmvSphere Client

Menu

Search in all environments

Administrator@VSPHERE.LOCAL

SnapCenter Plug-in for VMware vSphere

Dashboard

Settings

Resource Groups

Policies

Storage Systems

Guest File Restore

Dashboard

vCenter ServerTME-FUJI-51-30.nb.openenglab.netapp.com

StatusJob MonitorReportsGetting Started

Search

Search

1212Restoring backup with name: flexgroup_vm67_06-06-2021_19.44.41.072906/06/2021 07:54:48 PM06/06/2021 07:58:45 PM

99Backup of Resource Group 'flexgroup_vm67' with Policy 'flexgrp_vm67'06/06/2021 07:44:41 PM06/06/2021 07:45:45 PM

66Backup of Resource Group 'flexgroup_vm67' with Policy 'flexgrp_vm67'06/06/2021 07:40:00 PM06/06/2021 07:40:02 PM

55Purge jobs06/06/2021 07:38:00 PM06/06/2021 07:38:00 PM

22Backup of Resource Group 'flexgroup_vm67' with Policy 'flexgrp_vm67'06/06/2021 06:48:01 PM06/06/2021 06:48:14 PM

11Purge jobs06/06/2021 01:38:00 PM06/06/2021 01:38:02 PM

Recent TasksAlarms

Task NameTargetStatusDetailsInitiatorQueued ForStart TimeCompletion Time

Remove datastoreFG67_ESX5120(sc-20210606195452899)CompletedUnmount operation started.VSPHERE.LOCAL\Admi...3 ms06/06/2021, 8:00:24 PM06/06/2021, 8:00:26 PM

NetApp Unmount DatastoreFG67_ESX5120(sc-20210606195452899)CompletedUnmount operation started.VSPHERE.LOCAL\Admi...9 ms06/06/2021, 8:00:24 PM06/06/2021, 8:00:30 PM

All

More

混合云备份演示

	Name	Instance	Host	Last Backup	Overall Status	Type
	Finance	sql100	sql100.netsoft.com	02/11/2022 3:02:20 PM 	Backup succeeded	User database
	HumanResource	sql100	sql100.netsoft.com	02/11/2022 1:41:18 AM 	Backup succeeded	User database
	makdb	sql100	sql100.netsoft.com		Not protected	User database
	master	sql100	sql100.netsoft.com		Not protected	System database
	MasterDB	sql100	sql100.netsoft.com	02/11/2022 1:41:18 AM 	Backup succeeded	User database
	model	sql100	sql100.netsoft.com		Not protected	System database
	msdb	sql100	sql100.netsoft.com		Not protected	System database
	Sales	sql100	sql100.netsoft.com	02/11/2022 1:41:18 AM 	Backup succeeded	User database
	tempdb	sql100	sql100.netsoft.com		Not available for backup	System database
	InPatient	sql100	sql100.netsoft.com	02/11/2022 1:01:13 AM 	Backup succeeded	User database
	testadd	sql100	sql100.netsoft.com	02/11/2022 1:41:18 AM 	Backup succeeded	User database

Activate Windows

Go to System in Control Panel to activate Windows.

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谢谢!

联想凌拓官方联络方式

官方网站: www.lenovonetapp.com

服务热线: 400-828-3001 (呼叫中心)

400-116-0099 (销售热线)

官方社交平台账号:



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官方微信



Bilibili联想凌拓
空中沙龙



联想凌拓
渠道微信

