



管理Kubernetes叢集

Kubernetes clusters

NetApp
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管理Kubernetes叢集

您可以使用Cloud Manager來安裝Astra Trident、設定儲存類別、移除叢集、以及啟用資料服務。

功能

將Kubernetes叢集新增至Cloud Manager之後、即可從資源頁面管理叢集。若要開啟資源頁面、請按兩下Canvas上的Kubernetes工作環境。



您可以從資源頁面：

- 檢視Kubernetes叢集狀態。
- 確認已安裝Astra Trident。請參閱 ["安裝Astra Trident"](#)。
- 新增及移除儲存類別。請參閱 ["管理儲存類別"](#)。
- 檢視持續磁碟區。請參閱 ["檢視持續磁碟區"](#)。
- 從工作區移除Kubernetes叢集。請參閱 ["移除叢集"](#)。
- 啟動或檢視Cloud Backup。請參閱 ["使用NetApp雲端資料服務"](#)。

安裝Astra Trident

將託管Kubernetes叢集新增至Canvas之後、您可以使用Cloud Manager確認相容的Astra Trident安裝、或是安裝Astra Trident。需要最新版Astra Trident的四種版本之一。

若要深入瞭解Astra Trident、請參閱 ["Astra Trident文件"](#)。

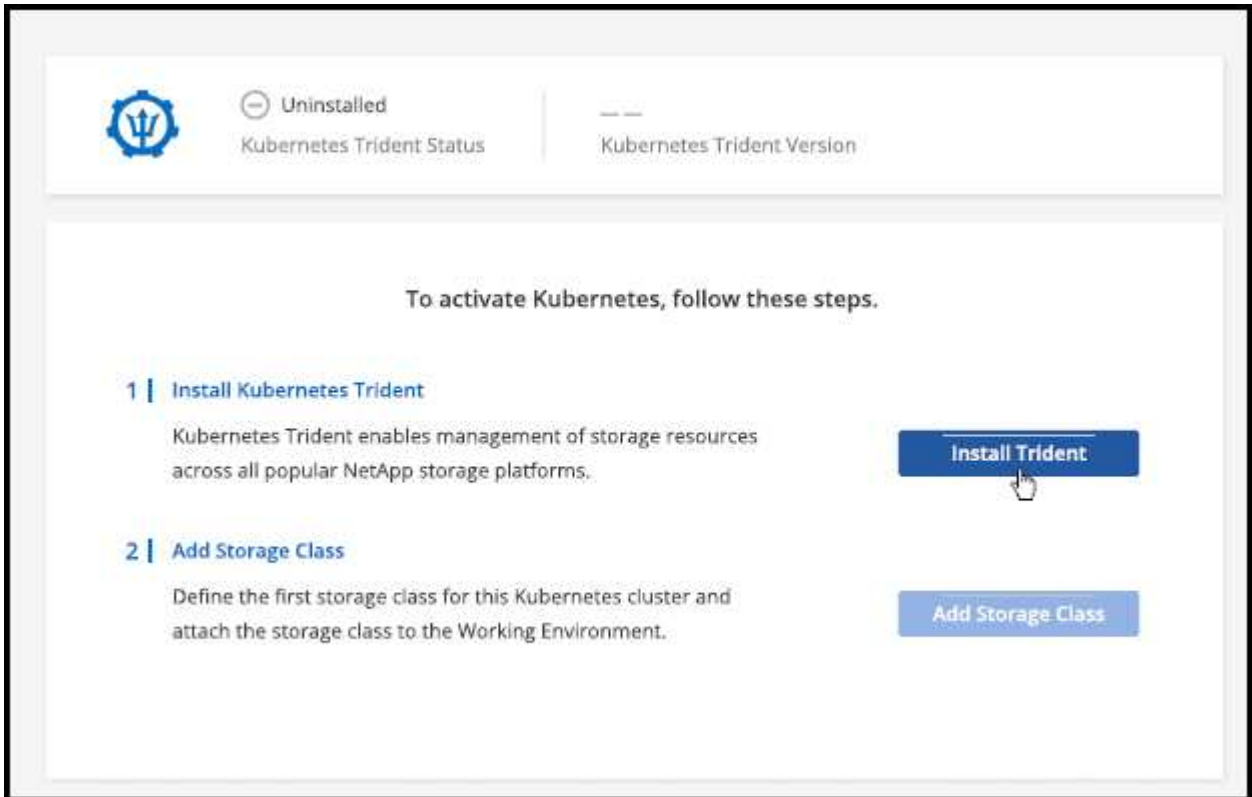


如果未安裝Astra Trident、或安裝不相容版本的Astra Trident、叢集會顯示需要採取行動。

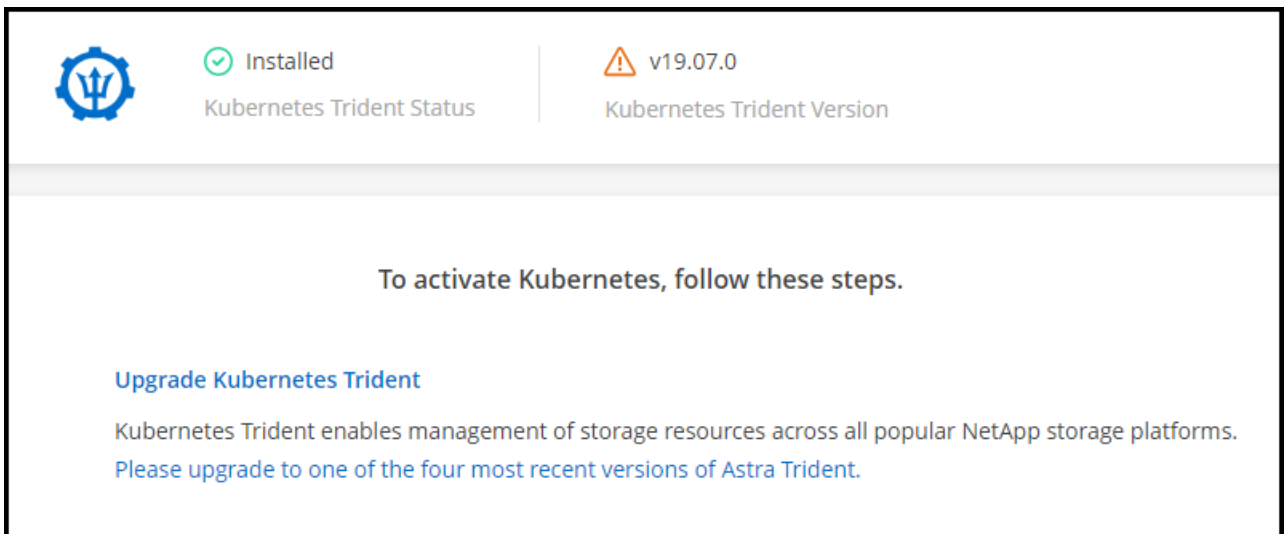
步驟

1. 按兩下Canvas上的Kubernetes工作環境、或按一下*輸入工作環境*。

- a. 如果未安裝Astra Trident、請按一下*安裝Trident*。



- b. 如果安裝Astra Trident的後端版本、"如需升級步驟、請前往Astra Trident文件"。



安裝最新版的Astra Trident。您現在可以新增儲存類別。

管理儲存類別

將託管Kubernetes叢集新增至Canvas之後、您可以使用Cloud Manager來管理儲存類別。

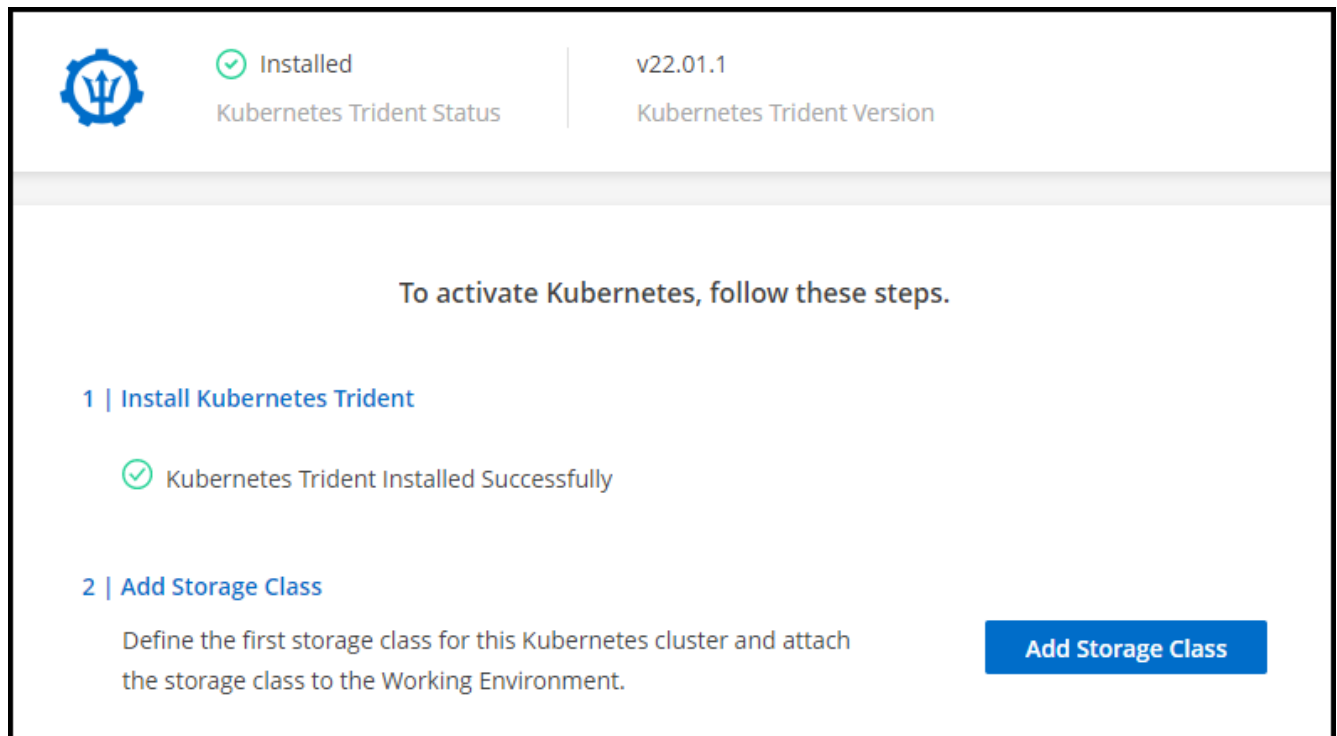


如果未定義任何儲存類別、叢集將顯示需要採取行動。

新增儲存類別

步驟

1. 按兩下Canvas上的Kubernetes工作環境、或按一下*輸入工作環境*。
2. 確認已安裝最新四個版本的Astra Trident之一。
3. 按一下「新增儲存類別」來定義Kubernetes叢集的儲存類別。



4. 提供儲存類別的名稱、選取定義選項、然後按一下*下一步*。

1 Storage Class Definitions
2 Select Working Environment

Storage Class Definition

for "Kubernetes Cluster Name"

Storage Class Name

Storage Class

☒ Block
☐ Filesystem

Support Volume Expansion

☒ Yes
☐ No

Volume Binding Mode

☒ Immediate
☐ WaitForFirstConsumer

Set as Default Storage Class

☒ Yes
☐ No

5. 選取要連線至叢集的工作環境。按一下「* 新增 *」。

✓ Storage Class Definitions
2 Select Working Environment

Select Working Environment

Working Environment	Type	Configuration	Region	Connected to K8s Clusters
<input type="radio"/> Working Environment Name On	Cloud Volumes ONTAP	High Availability	US East (Northern Virginia)	Not Connected
<input type="radio"/> Working Environment Name On	Cloud Volumes ONTAP	High Availability	US East (Northern Virginia)	Not Connected
<input type="radio"/> Working Environment Name On	Cloud Volumes ONTAP	High Availability	US East (Northern Virginia)	Not Connected
<input type="radio"/> Working Environment Name On	Cloud Volumes ONTAP	Single Node	US East (Northern Virginia)	Not Connected
<input type="radio"/> Working Environment Name On	Cloud Volumes ONTAP	Single Node	US East (Northern Virginia)	Not Connected
<input type="radio"/> Working Environment Name On	Cloud Volumes ONTAP	High Availability	US East (Northern Virginia)	Not Connected
<input type="radio"/> Working Environment Name On	Cloud Volumes ONTAP	Single Node	US East (Northern Virginia)	Not Connected
<input type="radio"/> Working Environment Name On	Cloud Volumes ONTAP	Single Node	US East (Northern Virginia)	Not Connected

Previous
Add

您可以按一下、從Kubernetes叢集的資源頁面檢視儲存類別。

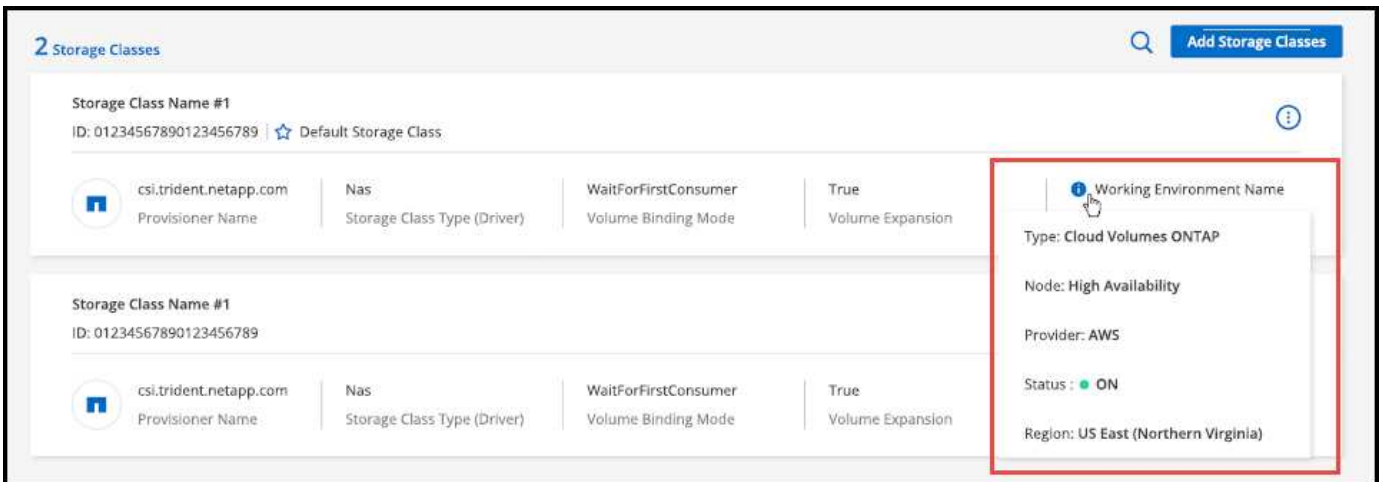


檢視工作環境詳細資料

步驟

1. 按兩下Canvas上的Kubernetes工作環境、或按一下*輸入工作環境*。
2. 按一下「儲存類別」索引標籤。
3. 按一下資訊圖示以檢視工作環境的詳細資料。

此時會開啟「工作環境詳細資料」面板。



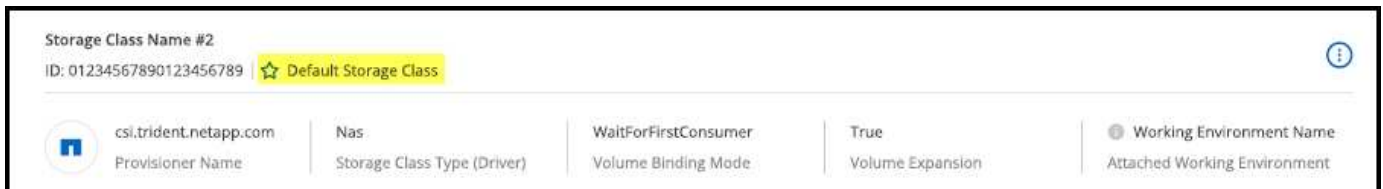
設定預設儲存類別

步驟

1. 按兩下Canvas上的Kubernetes工作環境、或按一下*輸入工作環境*。
2. 按一下「儲存類別」索引標籤。
3. 按一下儲存類別的動作功能表、然後按一下*設為預設*。



選取的儲存類別設為預設值。



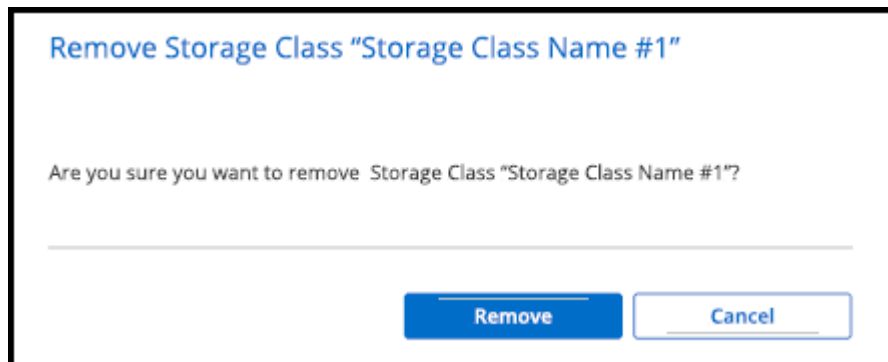
移除儲存類別

步驟

1. 按兩下Canvas上的Kubernetes工作環境、或按一下*輸入工作環境*。
2. 按一下「儲存類別」索引標籤。
3. 按一下儲存類別的動作功能表、然後按一下*設為預設*。



4. 按一下「移除」以確認移除儲存類別。



選取的儲存類別即會移除。

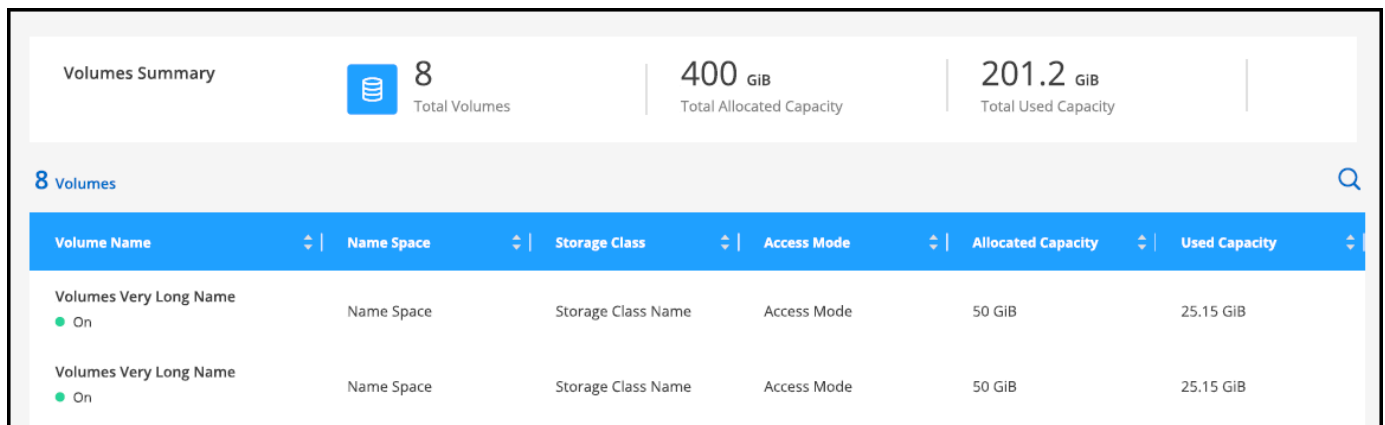
檢視持續磁碟區

將託管Kubernetes叢集新增至Canvases之後、您可以使用Cloud Manager來檢視持續的Volume。

步驟

1. 按兩下Canvas上的Kubernetes工作環境、或按一下*輸入工作環境*。
2. 按一下「總覽」標籤中的「檢視磁碟區」、或按一下「持續磁碟區」標籤。如果未設定任何持續磁碟區、請參閱 ["資源配置"](#) 如需Astra Trident中資源配置磁碟區的詳細資訊、

此時會顯示已設定的持續磁碟區表格。



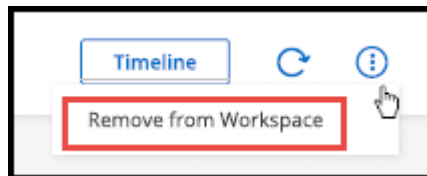
Volume Name	Name Space	Storage Class	Access Mode	Allocated Capacity	Used Capacity
Volumes Very Long Name ● On	Name Space	Storage Class Name	Access Mode	50 GiB	25.15 GiB
Volumes Very Long Name ● On	Name Space	Storage Class Name	Access Mode	50 GiB	25.15 GiB

從工作區移除Kubernetes叢集

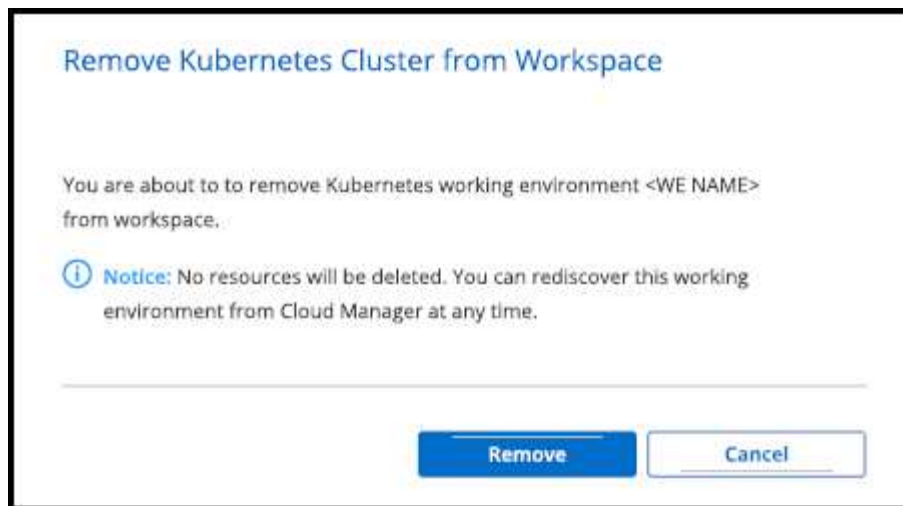
將託管Kubernetes叢集新增至Canvas之後、您可以使用Cloud Manager從工作區移除叢集。

步驟

1. 按兩下Canvas上的Kubernetes工作環境、或按一下*輸入工作環境*。
2. 在頁面右上角、選取「動作」功能表、然後按一下「從工作區移除」。



3. 按一下「移除」以確認從工作區移除叢集。您可以隨時重新探索此叢集。



Kubernetes叢集會從工作區中移除、且在Canvas上不再顯示。

將NetApp雲端資料服務與Kubernetes叢集搭配使用

將託管Kubernetes叢集新增至Canvases之後、您可以使用NetApp雲端資料服務來進行進階資料管理。

目前、Kubernetes叢集支援Cloud Backup。您可以使用Cloud Backup將持續磁碟區備份到物件儲存設備。

[瞭解如何使用Cloud Backup保護Kubernetes叢集資料](#)。

Restore **Kubernetes**

1 Selected Kubernetes Clusters

Backup Settings

1 Kubernetes Clusters | 5 Protected PVs | 97.66 KB Total Backups Size

Protected Persistent Volumes Status

5 Healthy Backup | 0 Failed Backup

5 Backup Jobs

Source K8s Cluster	Source Persistent Volume	Source Namespace	Last Backup	Backup Copies	Backup Status
eks1 On	pvc-1704aa1f-af1d-49e9-87fd-6edd86125855 Online	default	Nov 25 2021, 14:56:3	2	Enabled
eks1 On	pvc-d1f839c1-d932-4f49-b620-33321dbe939e Online	trident	Nov 25 2021, 14:56:3	2	Enabled
eks1 On	pvc-f615f0a8-2d5d-44d0-b4e4-f365cc3fb4a6 Online	default	Nov 25 2021, 14:56:3	2	Enabled
eks1 On	pvc-1615f0a8-2d5d-44d0-b4e4-f365cc3fb4a6 Online	default	Nov 25 2021, 14:56:3	2	Enabled
eks1 On	pvc-05881c70-cf5f-4edc-8537-a0a5ce36f9a1 Online	default	Nov 25 2021, 14:56:3	2	Enabled

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