Configurar la protección de datos en Hyperflex

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Introducción

Este documento describe cómo configurar la replicación en Hyperflex.

Prerequisites

Requirements

Cisco recomienda que tenga conocimiento sobre estos temas:

- Unified Computing System Manager (UCSM)
- HyperFlex
- vCenter
- Redes
- DNS

Componentes Utilizados

La información que contiene este documento se basa en las siguientes versiones de software y hardware.

• HyperFlex Connect 5.0.2d

- Clúster de expansión de hiperflex
- Clúster estándar Hyperflex
- UCSM 4.2(1I)
- vCenter 7.0 U3



Nota: para que la protección de datos tenga la misma versión de la plataforma de datos Hyperflex en ambos clústeres, el clúster puede ser de un tamaño y tipo diferentes.

La información que contiene este documento se creó a partir de los dispositivos en un ambiente de laboratorio específico. Todos los dispositivos que se utilizan en este documento se pusieron en funcionamiento con una configuración verificada (predeterminada). Si tiene una red en vivo, asegúrese de entender el posible impacto de cualquier comando.

Antecedentes

Hyperflex Data Protection le proporciona un plan de recuperación ante desastres. Le permite tener instantáneas automáticas que se replican en el clúster remoto. Las instantáneas de las

máquinas virtuales protegidas se envían al clúster remoto en función de la frecuencia configurada en el clúster. Sin embargo, sólo la instantánea tomada más recientemente permanece en el clúster de destino.

Información general adicional

- Se recomienda, al configurar el rango de IP, asignar más IP que nodos presentes en el clúster en caso de que se planee una expansión en el futuro.
- MTU debe ser el mismo en ambos extremos.
- La red de replicación debe utilizar la misma subred IP en ambos clústeres a lo largo de la misma VLAN.

Procedimiento

Paso 1. Inicie sesión en el sistema Hyperflex y vaya a la opción Replicación en el panel de acción izquierdo:

| = dualse HyperFlex Connect | | 3 🛆 | I 2 💿 | | æ |
|----------------------------|--|-----|---------|---|---|
| ⑦ Dashboard | REPLICATION CONRIGURATION + Configure Network | | Actions | ~ | |
| MONITOR Q Alarms | CLUSTER PAIRING Pair Cluster | | | | |
| 습 Events | | | | | |
| ANALYZE | | | | | |
| PROTECT | | | | | |
| MANAGE | | | | | |
| System Information | | | | | |
| Datastores | | | | | |
| Virtual Machines | | | | | |
| ↑ Upgrade | | | | | |
| >_ Web CLI | | | | | |
| Kubernetes | | | | | |

Opción de replicación

Paso 2. Haga clic en la opción Configure Network, rellene la información de cada uno de los campos y haga clic en Next:

| aduate HyperFlex Connect | | | | | Q 🔺 3 📲 | III 2 💿 | 0 |
|-----------------------------------|--|--------------------------------|------------------------------|--------------------|---------|---------|---|
| O Dashboard | REPLICATION CONFIGURATION → Configure Network | Configure Replication Network | | 08 | | | |
| MONITOR | CLUSTER PAIRING Pair Cluster | VLAN Configuration | IP & Bandwidth Configuration | Test Configuration | | | |
| 슈 Events | | Select an existing VLAN | | × | | | |
| ANALYZE | | Create a new VLAN VLAN ID | | | | | |
| alt Performance | | VLAN Name | | | | | |
| PROTECT | | UCS Manager host IP or FQDN | | | | | |
| MANAGE | | User name | | 0 | | | |
| System Information Datastores | | Password | | | | | |
| ାର୍ଚ୍ଚ ଅନ୍ୟ | | | | Cancel Next | | | |
| Upgrade | | | | | | | |
| >_ Web CLI | | | | | | | |

Configurar red de replicación

Paso 3. Establezca la información IP para la red de replicación, agregando la subred, la gateway y el rango de IP. Una vez asignado el intervalo IP, haga clic en Add IP Range y, a continuación, haga clic en Configure.

| $\equiv {}^{\rm aduals}_{\rm casco}$ HyperFlex Connect | | | | | | | | |
|--|---------------------------------|---------------------------------|--|------------|------------------|--|--|--|
| ② Dashboard | REPLICATION CONFIGURATION | Configure Replication Network | | | | | | |
| MONITOR Q Alarms | CLUSTER PAIRING Pair Cluster | VLAN Configuration | IP & Bandwidth Configu | iration Te | st Configuration | | | |
| 순 Events | | Subnet | p.q.r.s/ <number bits<="" of="" th=""><th>></th><th></th><th></th><th></th><th></th></number> | > | | | | |
| ANALYZE | | Gateway IP Range | IPv4 address in the for | To | Add IP Range | | | |
| PROTECT | | | No records found | | | | | |
| Replication | | | | | | | | |
| System Information | | Set replication bandwidth limit | | | Mbit/s | | | |
| ି iscsi | | | | E | Back Configure | | | |
| L Virtual Machines | | | | | | | | |
| Web CLI Kubernetes | | | | | | | | |

Configurar red de replicación

Paso 4. La configuración se valida y se aplica. Una vez completada, haga clic en Cerrar:

| $\equiv \frac{\mathrm{shah}}{\mathrm{cases}}$ HyperFlex Connect | | | | | ∆ ∆ 3 🗎 | ∭³ ⊖ | 0 2 |
|---|---------------------------------|---|--|--------------------|----------------|------|-----|
| ② Dashboard | REPLICATION CONFIGURATION | Configure Replication Ne | work | | | | |
| MONITOR Alarms | CLUSTER PAIRING Pair Cluster | VLAN Configuration | IP & Bandwidth Configuration | Test Configuration | | | |
| Events | | Creating DR Network Status: Success 01/30/2024 7:48:59 PM | | | | | |
| ANALYZE | | [100] | Starting Configuration - Succeeded | | | | |
| PROTECT | | [101] | Configure Replication Vlan - Succeeded | | | | |
| Replication | | [103] | Validate Cluster State - Succeeded | | | | |
| MANAGE | | | Succeeded | | | | |
| System Information | | [105] | Configure vlan for Controller Succeeded | | | | |
| | | [106] | Configure vian for Controller | | | | |
| Virtual Machines | | | | Close | | | |
| T Upgrade | | | | | | | |
| >_ Web CLI | | | | | | | |
| Kubernetes | | | | | | | |

Configuración de red DR

Paso 5. Configure la red en el otro clúster. Para este ejemplo, el segundo clúster es elástico, por lo que se requieren ambas credenciales de UCSM. Rellene la información según corresponda y haga clic en Next:

| = dudu HyperFlex Connect | | | | | | | |
|--------------------------|--|---|-------------------------|--------------------|--|--|--|
| ② Dashboard | REPLICATION CONFIGURATION Gonfigure Network | Configure Replication Network | | 08 | | | |
| MONITOR Q Alarms | CLUSTER PAIRING Pair Cluster | VLAN Configuration | Bandwidth Configuration | Test Configuration | | | |
| Events Activity | | UCS Manager Credentials for Site | Å | | | | |
| ANALYZE | | UCS Manager host IP or FQDN User name | admin | | | | |
| Performance | | Password | | • | | | |
| Replication | | UCS Manager Credentials for Site | в | | | | |
| MANAGE | | UCS Manager host IP or FQDN | | | | | |
| System Information | | User name | admin | | | | |
| Datastores | | Password | | 0 | | | |
| 💭 Virtual Machines | | | | Cancal Next | | | |
| 🕆 Upgrade | | | | Cancer | | | |
| Yeb CLI | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Segunda configuración de red de clúster

Paso 6. Establezca la información IP para la red de replicación en el segundo clúster, agregando la misma subred, gateway e intervalo IP. Una vez asignado el intervalo IP, haga clic en Add IP Range y, a continuación, haga clic en Configure:

| = dude HyperFlex Connect | | | | | |
|--------------------------|---------------------------------|---------------------------------|-----------------------|---------|--------------------|
| O Dashboard | REPLICATION CONFIGURATION | Configure Replication Network | | | 08 |
| MONITOR Q Alarms | CLUSTER PAIRING Pair Cluster | VLAN Configuration | IP & Bandwidth Config | uration | Test Configuration |
| Events | | Subnet | | | |
| Activity | | Gateway | | | |
| ANALYZE | | IP Range | From | To | Add IP Range |
| PROTECT | | * | | | 8 |
| Replication | | | | | |
| MANAGE | | Set replication bandwidth limit | | | |
| System Information | | Set non default MTU | | | Mbit/s |
| Virtual Machines | | | | | _ |
| Dupgrade | | | | | Back Configure |
| >_ Web CLI | | | | | |
| | | | | | |

Configuración del Segundo Clúster de Red

Paso 7. Cuando la configuración se haya completado, aparecerá un estado correcto y, a continuación, haga clic en Cerrar:

| HyperFlex Connect | | | | | | | |
|----------------------|---------------------------------|---|---|--------------|--------------------|---|--|
| ② Dashboard | REPLICATION CONFIGURATION | Configure Replication | Network | | 08 | | |
| MONITOR Q Alarms | CLUSTER PAIRING Pair Cluster | VLAN Configuration | on IP & Bandwidth C | onfiguration | Test Configuration | | |
| 순 Events | | Creating DR Network Status: Success 01/30/2024 4:57:42 Pt | и | | | | |
| ANALYZE | | | | | | | |
| Performance | | [100] | Starting Configuration - Succe | eeded | | | |
| PROTECT | | [101] | Configure Replication Vlan - 5 | Succeeded | | | |
| Replication | | [102] | Configure Stretch Vian - Succo | reded | | | |
| MANAGE | | [103] | ✓ Validate Cluster State - Succe | eded | | | |
| E System Information | | [104] | Configure vian for Controller Succeeded | | | | |
| Datastores | | [105] | Configure vian for Controller Succeeded | | | | |
| 🖵 Virtual Machines | | | | | Clara | | |
| '↑ Upgrade | | | | | Close | ļ | |
| X | | | | | | | |

Segundo clúster de configuración de red DR



Nota: Una vez configurada la red, se recomienda realizar una prueba de red entre los dos clústeres para confirmar que pueden comunicarse entre sí. Utilice ping para probar la disponibilidad de las IP entre las interfaces eth2.

Paso 7. Para crear el par de replicación, haga clic en Replicación y luego haga clic en Vincular clúster en la opción Vinculación de clústeres. Asigne un nombre para el Nombre del Par de Replicación y haga clic en Siguiente:

| esco HyperFlex Connect | | | | |
|-----------------------------------|---|------------------------|-------------------|-------------|
| Oashboard | REPLICATION CONFIGURATION Network Configured | Create New Replication | Pair | 08 |
| MONITOR Q Alarms | CLUSTER PAIRING | Name | Remote Connection | Run Test |
| 순 Events | | Replication Pair Name | ReplicationDemo | |
| ANALYZE | | | | |
| Performance | | | | |
| PROTECT Replication | | | | |
| MANAGE | | | | |
| System Information Datastores | | | | Cancel Next |
| S ISCSI | | | | |
| Upgrade | | | | |
| Web CLI Kubernetes | | | | |

Par de replicación

Paso 8. Proporcione la IP de administración del clúster o FQDN para que el clúster sea el par de replicación y, a continuación, haga clic en Vincular:

| = dude HyperFlex Connect | | | | | | | |
|---|---|---|--------------------|-----------|------|-----|--|
| ② Dashboard | REPLICATION CONFIGURATION Network Configured | Create New Replication Pair | | 08 | Acti | ons | |
| Alarms | CLUSTER PAIRING → Pair Cluster | Name Re | emote Connection | Run Test | | | |
| Events Activity | | Management IP or FQDN | | | | | |
| ANALYZE | | User Name Password | admin | 0 | | | |
| PROTECT | | ② Enter single sign-on or cluster credentials | for remote cluster | | | | |
| MANAGE | | | | | | | |
| System Information Datastores | | | | Back Pair | | | |
| ISCSI □ Virtual Machines | | | | | | | |
| Upgrade | | | | | | | |
| Kubernetes | | | | | | | |

Clúster de emparejamiento

m

Paso 8. Una vez que se han emparejado los clústeres, todo está configurado para iniciar la asignación del almacén de datos entre los dos clústeres, dentro de la misma página de replicación. Aparece la opción Map Datastore, haga clic en ella:

| = 'diada' HyperFlex Connect | | | | | ĥ | ι (Π) 2 | ٢ | 0 4 | 2 |
|-----------------------------|---|---------------------------------------|---|--|---------------|----------------|------------|-------|---|
| Dashboard MONITOR | REPLICATION CONFIGURATION Network Configured | BANDWIDTH UMIT Unlimited | | | | Actions | | • • • | |
| Q Alarms ★ Events | Cluster Pairing ReplicationDemo | DATASTORE MAPPED → Map Datastores | | | | Actions | | × | |
| Activity | OUTGOING REPLICATION Active | VMs ① To protect | virtual machines, go to the Virtual Machines page, se | elect one or more virtual machines and click Prote | Protection (| Groups | | | |
| ANALYZE | INCOMING REPLICATION | VMs O | | | Protection (| Groups | | | |
| PROTECT | Local VMs Remote VMs Replication Activity | y Replication Pairs | | | Last refreshe | d at: 01/30/20 | 24 5:44:56 | PM O | |
| C Replication | Protection Group All Protected VMs Standalone | Protected VMs | | | | | | | |
| MANAGE | ✓ Edit Schedule | o Group X Unprotect | | Pause | | | | | |
| E System Information | Virtual Machine Name | Protection Status | Last Protection Time | Direction Protection Group | | Inter | val | | |
| Datastores | | | No records found | | | | | | |
| ରେ iscsi | | | | | | | | | |
| Virtual Machines | | | | | | | | | |
| 1 Upgrade | | | | | | | | | |
| >_ Web CLI | | | | | | | | | |
| Kubernetes | | | | | | | | | |

Almacén de datos de asignación

Paso 9. En la ventana emergente, aparece Datastore Mapping, que muestra los datastores disponibles en el clúster a la izquierda, y un menú desplegable con los datastores disponibles en el clúster emparejado donde se intenta proteger las VM:

| = dude HyperFlex Connect | | | | | | | | | | |
|---------------------------|--|--|--|-------------------|---------------------|-------------------------|----------------------|----------|---------|--|
| Dashboard | REPLICATION CONFIGURATION Network Configured | Datastore Mapping | | 08 | | | Ac | tions | | |
| Alarms | Cluster Pairing ReplicationDemo | Create datastore pairs by mapping datastores o remote cluster. Ensure you have sufficient space | in this cluster with appropriate e on the datastores. | datastores on the | | | Ac | tions | | |
| 슈 Events | OUTGOING REPLICATION | Local Datastore ^ | Remote Datastore | | or more virtual mad | hines and click Protect | Protection Group | ps | | |
| ANALYZE | | Replication Demo 10 GIB | Replication Demo | Space: 1 GiB) 🗸 | | | Protection Group | 25 | | |
| PROTECT | Local VMs Remote VMs Replication Activ | | | | | | Last refreshed at: 0 | | 03 PM 1 | |
| Replication | Protection Group All Protected VMs Standalor | | | | Pa | use | | | | |
| MANAGE System Information | Virtual Machine Name | | Cancel | Map Datastores | ction | Protection Group | | Interval | | |
| Datastores | | | No records found | | | | | | | |
| 🕼 iscsi | | | | | | | | | | |
| 💭 Virtual Machines | | | | | | | | | | |
| T Upgrade | | | | | | | | | | |
| Yeb CLI | | | | | | | | | | |
| Kubernetes | | | | | | | | | | |

Asignación de almacenes de datos



Nota: La asignación de almacenes de datos se puede realizar de ambos sitios entre sí; por ejemplo, el Clúster 1 puede asignar almacenes de datos al clúster 2 y el Clúster 2 puede asignar almacenes de datos al clúster 1 sin ninguna configuración adicional.

Paso 10. Una vez asignados los almacenes de datos, defina el grupo de protección, especifique un nombre y seleccione un período de tiempo para proteger las máquinas virtuales que se van a asociar a él. Por último, especifique la hora a la que se inicia el grupo de protección y, a continuación, haga clic en Crear grupo de protección.

| 🕑 Dashboard 🛁 | | Create Protection Group | | 08 | | |
|-------------------------------|---|--|---------------------------------------|-------|--|---|
| MONITOR Q Alarms | REPLICATION CONFIGURATION Network Configured | Protection Group Name | Demo | | | Actions ~ |
| Events Activity | Cluster Pairing ReplicationDemo | Protect virtual machines in this group every | 1 hour | ¥ | TINGS | Actions ~ |
| ANALYZE | OUTGOING REPLICATION | Start protecting the virtual machines immediately Start protecting the virtual machines at | 1:00 am | | or more virtual machines and click Protect | Protection Groups |
| PROTECT | INCOMING REPLICATION | Cluster time zone Current time on cluster | (UTC -06:00 CST) 5:05:49 AM | | | Protection Groups |
| MANAGE | Local VMs Remote VMs Replication | on Activ | | | | Last refreshed at: 01/31/2024 10:09:30 PM |
| System Information Datastores | Protection Groups | Edit Sch | | | Pause | |
| ISCSI Virtual Machines | + Create Group 🥢 🔋 | ľ | Cancel Create Protection No records f | Group | Direction Protection | Group Interval |
| Upgrade | | | | | | |
| Kubernetes | | | | | | |

Creación de grupos de protección

Consideraciones sobre grupos de protección

- El grupo de protección define cómo se comporta la protección de datos.
- Permite especificar la frecuencia para proteger la máquina virtual.
- Puede durar de 5 minutos a 24 horas, también el tiempo en que comienza la protección.
- Puede tener una hora inmediata o específica.
- Las herramientas de VMware se pueden habilitar para silenciar la máquina virtual.

Aparece un mensaje de confirmación que indica que se ha creado el grupo de protección y aparece enumerado en el área del grupo de protección:

| C Replication | Local VMs Remote VMs Rep | lication Activity Replication Pairs | | | | Last refreshed at: 01/3 | 1/2024 10:57:59 PM | | | | | |
|------------------------------|---|-------------------------------------|---------------------------------------|----------------------|-----------|-------------------------|--------------------|--|--|--|--|--|
| MANAGE System Information | Protection Group <u>All Protected VMs</u> <u>Standalone Protected VMs</u> | | | | | | | | | | | |
| | Protection Groups | | Pa | Pause | | | | | | | | |
| S ISCSI | + Create Group 🖌 🔒 | Virtual Machine Name | Protection Status | Last Protection Time | Direction | Protection Group | Interval | | | | | |
| Virtual Machines | Demo (0 VM) | | | No records found | | | | | | | | |
| ↑ Upgrade | Active ① 5 minutes | | | | | | | | | | | |
| >_ Web CLI | | | | | | | | | | | | |
| Kubernetes | | | | | | | | | | | | |

Grupo de protección creado

Paso 11. Con el grupo de protección creado, el paso final es asignarlo a las máquinas virtuales que se van a proteger. Vaya a la pestaña Máquinas virtuales, seleccione la máquina virtual que desea proteger y, a continuación, haga clic en Proteger:

| 슈 Events | Virtu | Virtual Machines | | | | | | | | | /2024 12:03:44 AM 🔿 |
|--------------------|--|--|---------------|------------|---------------------------|-----------|----------------------|-----------|----------------------|------------------------|---------------------|
| ANALYZE | 🔯 Ready Clones 💿 Snapshot Now 💿 Schedule Snapshot 🖄 Protect 💿 Power On 🔢 Suspend 🕹 Power Off | | | | | | | | | € × Filter | |
| lin Performance | | Name | Status | IP Address | Guest OS | Host Name | Protection Status | Snapshots | Snapshot Schedule | Storage Provisioned | Storage Used |
| PROTECT | | Cisco-HX-Data-Platform-Installer- v5.0.2e-42642-esx | Powered On | | Ubuntu Linux (64- bit) | | Unprotected | - | | 24 GIB | 24 GIB |
| MANAGE | | Installer 4.5 | Powered On | | Ubuntu Linux (64- bit) | | Unprotected | 1 | | 27.6 GIB | 7.5 GIB |
| System Information | | | | | | | | | | | |
| E Datastores | | | | | | | | | | | |
| 🗟 iscsi | 1 iter | m selected | | | | | | | | | |
| Virtual Machines | 1 - 3 of | - 3 of 3 | | | | | | | | | |
| T Upgrade | | | | | | | | | | | |

Aparece una ventana emergente para adjuntar el grupo de protección creado, seleccionarlo y hacer clic en Proteger máquina virtual:

| Protect Virtual Machine | | ⁄0⊗ | | | | | |
|--|----------------------|-------------|--|--|--|--|--|
| Add to an existing protection group | Demo | ~ | | | | | |
| O Protect this virtual machine independently | | | | | | | |
| Protect this virtual machine every | 1 hour | ~ | | | | | |
| Start protecting the virtual machines immediate | ely | | | | | | |
| Start protecting the virtual machines at | 1:00 am | œ | | | | | |
| Cluster time zone | (UTC -06:00 CST) | | | | | | |
| Current time on cluster | 6:35:47 AM | | | | | | |
| Use VMware Tools to quiesce the virtual machine | | | | | | | |
| | Cancel Protect Virtu | ual Machine | | | | | |

Una vez protegida, la VM se muestra como protegida para el grupo de protección.

| 合 Events | Virtual Machines Las | | | | | | | | | | /01/2024 12:11:22 AM |
|--------------------|---|--|---------------|------------|---------------------------|-----------|----------------------|-----------|----------------------|------------------------|----------------------|
| ANALYZE | TReady Clones © Snapshot Now © Schedule Snapshot @Protect © Power On II Suspend © Power Off | | | | | | | | | | ler |
| Performance | | Name | Status | IP Address | Guest OS | Host Name | Protection Status | Snapshots | Snapshot Schedule | Storage Provisioned | Storage Used |
| PROTECT | | Cisco-HX-Data-Platform-Installer- v5.0.2e-42642-esx | Powered On | | Ubuntu Linux (64- bit) | | Unprotected | | | 24 GIB | 24 GIB |
| MANAGE | | Installer 4.5 | Powered On | | Ubuntu Linux (64- bit) | | Protected (Demo) | | | 27.6 GIB | 7.5 GIB |
| System Information | | | | | | | | | | | |
| Datastores | | | | | | | | | | | |
| G ISCSI | 1 ite | m selected | | | | | | | | | |
| Virtual Machines | 1 - 3 of | 3 | | | | | | | | | |
| ↑ Upgrade | | | | | | | | | | | |
| >_ Web CLI | | | | | | | | | | | |
| Kubernetes | | | | | | | | | | | |



Selección del grupo de protección



Nota: Asegúrese de que la máquina virtual protegida pertenece a un almacén de datos que se está asignando; de lo contrario, la protección fallará.

Troubleshoot

Verificar configuración de protección de VM

Una práctica recomendada es supervisar la protección de VM en la pestaña Replicación:

| MONITOR Alarms | REPLICATION | on configuration k Configured | BANDWIC Unlimi | th umit ted | | | 1 | | Actions \vee |
|---------------------------|-------------------------|--|-------------------------------------|------------------|-------------------------|--|------------------|--------------------|------------------------------|
| 슈 Events 웹 Activity | Cluster Pai Replicat | ring tionDemo | DATASTO 2 | RE MAPPED | | RECOVERY SETTINGS → Configure | | | Actions ~ |
| ANALYZE | OUTGOING Active | 5 REPLICATION | v _{Ms} 1 | Protected ✓ 1 | Exceeds Interval ⓒ 0 | Current Replication Failures O | | Protection \$ 1 | Group |
| PROTECT | INCOMING Active | REPLICATION | VMs 0 | | | | | Protection 0 | Groups |
| C Replication | Local VMs | Remote VMs Replication Activity F | eplication P | airs | | | | Last refreshe | d at: 02/01/2024 12:25:35 AM |
| MANAGE System Information | Protection G | roup All Protected VMs <u>Standalone Protect</u> dule — Remove from Group + Add to Grou | t <mark>ed VMs</mark> ip X Unpri | | | | Pause | () ~ | Filter |
| Datastores | | Virtual Machine Name | Protect | ion Status | Last Protection Time | Direction | Protection Group | | Interval |
| Virtual Machines | | Installer 4.5 | Protect | ed | 02/01/2024 6:50:46 AM | Outgoing | Demo | | Every 5 minutes |
| '↑ Upgrade | | | | | | | | | |
| >_ Web CLI | 1 - 1 of 1 | | | | | | | | |
| Kubernetes | | | | | | | | | |

Supervisión de VM protegidas

Supervisar actividades de replicación

Las actividades de replicación se pueden supervisar haciendo clic en la pestaña Actividad de Replicación:

| MONITOR Q Alarms | REPLICATION CONFIGURATION Network Configured | | BANDWIDTH LIMIT | | | | | | Actions \vee |
|------------------------|---|--------------------------|------------------|--------------------|-----------------------|-----------------------|-----------------------------------|-----------|---|
| ☆ Events ① Activity | Cluster Pairing ReplicationDemo | | DATASTORE MAPPED | | | , → (| RECOVERY SETTINGS Configure | | Actions ~ |
| ANALYZE | OUTGOING REPLICATION Active | | vMs 1 | Protected ✓ 1 | Exceeds Interv 0 0 | val | Current Replication Failures O | | Protection Group 1 |
| PROTECT | INCOMING REPLICATION Active | | VMs 0 | | | | | | Protection Groups 8 0 |
| MANAGE | Local VMs Remote VMs | Replication Activity Rep | lication Pairs | | | | | | Last refreshed at: 02/01/2024 12:29:29 AM |
| System Information | | | | | | | | | E Y Filter |
| Datastores | Virtual Machine | Remote Cluster | Status | Start Time | × | End Time | Protection Group | Direction | Data Transferred |
| 🕼 iscsi | Installer 4.5 | Tokio | Completed | 02/01/2024 6:54:49 | AM | 02/01/2024 6:54:49 AM | Demo | Outgoing | 464 KIB |
| Virtual Machines | Installer 4.5 | Tokio | Completed | 02/01/2024 6:50:46 | AM | 02/01/2024 6:50:47 AM | Demo | Outgoing | 692 KIB |
| '↑' Upgrade | Installer 4.5 | Tokio | Completed | 02/01/2024 6:46:43 | AM | 02/01/2024 6:46:44 AM | Demo | Outgoing | 520 KIB |
| >_ Web CLI | Installer 4.5 | Tokio | Completed | 02/01/2024 6:42:40 | AM | 02/01/2024 6:42:40 AM | Demo | Outgoing | 724 KiB |
| Kubernetes | Installer 4.5 | Tokio | Completed | 02/01/2024 6:38:35 | AM | 02/01/2024 6:38:49 AM | Demo | Outgoing | 5.8 GIB |
| | 1 - 5 of 5 | | | | | | | | |

Actividades de replicación

Problemas comunes

Problemas de pares

Pueden aparecer problemas de emparejamiento:

| Create New Replication Pair | | ⊘⊗ | | | | | |
|---|---|----------------------------|--|--|--|--|--|
| Name Re | emote Connection | Run Test | | | | | |
| Unable to fetch the DR network configuration in removed and the provident of the provide | ation from remote Cluster. Please retry to ote Cluster. | the operation aft x | | | | | |
| Establish a connection to a remote cluster | | | | | | | |
| Management IP or FQDN | | | | | | | |
| User Name | admin | | | | | | |
| Password | | ø | | | | | |
| ^① Enter single sign-on or cluster credentials for remote cluster | | | | | | | |
| | [| Back Pair | | | | | |

- Asegúrese de que la red de replicación esté configurada en ambos clústeres.
- Asegúrese de que los clústeres sean accesibles entre sí.

Inconvenientes de conectividad

- Verifique que eth2 esté presente. Utilice el comando ifconfig en cada una de las máquinas virtuales del controlador de almacenamiento para confirmar que eth2 esté configurado correctamente en ellas.
- Utilice ping para probar la conectividad entre las interfaces eth2.
- Asegúrese de que la VLAN de replicación en ambos clústeres coincida.
- Asegúrese de que la VLAN de replicación esté configurada correctamente en todas las rutas entre los clústeres.

Problemas de emparejamiento

| eth2 Link encap:Ethernet HWaddr | eth2 Link encap:Ethernet HWaddr |
|---|--|
| inet addr:172 .3 Bcast:172255 Mask:255.255.255.0 | inet addr:172 .9 Bcast:172 .255 Mask:255.255.255.0 |
| UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1 | UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1 |
| RX packets:797975 errors:0 dropped:87 overruns:0 frame:0 | RX packets:30774 errors:0 dropped:29 overruns:0 frame:0 |
| TX packets:79505 errors:0 dropped:0 overruns:0 carrier:0 | TX packets:32960 errors:0 dropped:0 overruns:0 carrier:0 |
| collisions:0 txqueulen:1000 | collisions:0 txqueuelen:1000 |
| RX bytes:74023721 (74.0 MB) TX bytes:74168965 (74.1 MB) | RX bytes:2893235 (2.8 MB) TX bytes:3141789 (3.1 MB) |
| eth2:0 Link encap:Ethernet HWaddr | eth2:0 Link encap:Ethernet HWaddr |
| inet addr:172 .2 Bcast:172 .255 Mask:255.255.255.0 | inet addr:172 .7 Bcast:172 .255 Mask:255.255.255.0 |
| UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1 | UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1 |
| eth0:mgmtip Link encap:Ethernet HWaddr | eth0:mgmtip Link encap:Ethernet HWaddr |
| inet addr: Bcast:10.31.123.255 Mask:255.255.255.0 | inet addr: Bcast Mask:255.255.255.0 |
| UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1 | UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1 |
| <pre>lo Link encap:Local Loopback</pre> | <pre>lo Link encap:Local Loopback</pre> |
| inet addr:127.0.0.1 Mask:255.0.0.0 | inet addr:127.0.0.1 Mask:255.0.0.0 |
| UP LOOPBACK RUNNING MTU:65536 Metric:1 | UP LOOPBACK RUNNING MTU:65536 Metric:1 |
| RX packets:15509057612 errors:0 dropped:0 overruns:0 frame:0 | RX packets:12876504225 errors:0 dropped:0 overruns:0 frame:0 |
| TX packets:15509057612 errors:0 dropped:0 overruns:0 carrier:0 | TX packets:12876504225 errors:0 dropped:0 overruns:0 carrier:0 |
| collision:0 txqueulen:1000 | collisions:0 txqueuelen:1000 |
| RX bytes:3349146489309 (3.3 TB) TX bytes:3349146489309 (3.3 TB) | RX bytes:2722351786798 (2.7 TB) TX bytes:2722351786798 (2.7 TB) |
| [hxshell:-\$ ping 172 .9 PING 172 .9 (172 .9) 56(84) bytes of data. 64 bytes from 172 .9: icmp_seq=1 ttl=64 time=0.332 ms 64 bytes from 172 .9: icmp_seq=2 ttl=64 time=0.119 ms 64 bytes from 172 .9: icmp_seq=3 ttl=64 time=0.127 ms 64 bytes from 172 .9: icmp_seq=4 ttl=64 time=0.187 ms 64 bytes from 172 .9: icmp_seq=5 ttl=64 time=0.186 ms 64 bytes from 172 .9: icmp_seq=5 ttl=64 time=0.132 ms 64 bytes from 172 .9: icmp_seq=2 ttl=64 time=0.132 ms 64 bytes from 172 .9: icmp_seq=8 ttl=64 time=0.124 ms 64 bytes from 172 .9: icmp_seq=8 ttl=64 time=0.124 ms 64 bytes from 172 .9: icmp_seq=9 ttl=64 time=0.144 ms 64 bytes transmitted, 9 received.0% packet loss, time 8194ms rtt min/avg/max/mdev = 069 ms | <pre> hxshell:-\$ ping 172 .3 PING 172 .3 (172 .3) 56(84) bytes of data. 64 bytes from 172 .3: icmp_seq=1 ttl=64 time=0.158 ms 64 bytes from 172 .3: icmp_seq=2 ttl=64 time=0.137 ms 64 bytes from 172 .3: icmp_seq=2 ttl=64 time=0.107 ms 64 bytes from 172 .3: icmp_seq=4 ttl=64 time=0.143 ms 64 bytes from 172 .3: icmp_seq=5 ttl=64 time=0.143 ms 64 bytes from 172 .3: icmp_seq=7 ttl=64 time=0.149 ms 64 bytes from 172 .3: icmp_seq=8 ttl=64 time=0.149 ms 64 bytes from 172 .3: icmp_seq=8 ttl=64 time=0.140 ms 64 bytes from 172 .3: icmp_seq=8 ttl=64 time=0.140 ms 64 bytes from 172 .3: icmp_seq=9 ttl=64 time=0.145 ms 7C 172 .3 ping statistics 9 packets transmitted, 9 received. 0% packet loss, time 8199ms rtt min/avg/max/mdev = 019 ms</pre> |

Prueba de ping

Problemas de protección

Protect Virtual Machine

| Sisco-HX-Data-Platform-Installer-v5.0.2e-42642-e) are not paired. | sx : Unable to protect the VM, some o | datastores 🗙 |
|---|---------------------------------------|--------------|
| Add to an existing protection group | Demo | ~ |
| O Protect this virtual machine independently | | |
| Protect this virtual machine every | 1 hour | |
| Start protecting the virtual machines immediat | ely | |
| O Start protecting the virtual machines at | 1:00 am | Θ |
| Cluster time zone | (UTC -06:00 CST) | |
| Current time on cluster | 3:45:32 AM | |
| Use VMware Tools to quiesce the virtual machi | ine | |
| | Cancel Protect Virtue | al Machine |

Problemas de protección

- Asegúrese de que la máquina virtual que se va a proteger pertenece a un almacén de datos asignado.
- Asegúrese de que los almacenes de datos están asignados correctamente.

$(?) \times$



Nota: algunas correcciones requieren la intervención del Technical Assistance Center (TAC). Abra un caso con el TAC, si es necesario.

Información Relacionada

- Guía de administración de la plataforma de datos Cisco HyperFlex, versión 5.0
- Soporte técnico y descargas de Cisco

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