

# Virtual Storage Integrator

With XtremIO



← Xtrem10

הקניון

בניין

# EMC VSI

Virtual Storage Integrator (VSI)は、XtremIO(Unity, VMAXなど)の様々な機能をVMWare vSphere上で、実行できるようにする、無償ソフトウェアです。

EMCのVSIによって、VMware vCenterサーバーや以下のfeatureを行うことができます。

- ストレージの管理
- アレイレベルでのスナップショットの作成/スケジューリング
- 最適な設定を自動的に適応
- 未使用領域の開放
- データストアやVMレベルのリストア
- AppSync保護の設定
- SRMを使ってpoint in timeでのリカバリー

New EMC Datastore

- ✓ 1 Name and Location
- ✓ 2 Type
- ✓ 3 Array Selection
- ✓ 4 Initiator Group Selection
- ✓ 5 VMFS Version
- 6 Datastore Details**
- 7 Ready to Complete

**Volume Properties**

Capacity:  GB (Max: 65,536.00 GB)  
Type: Normal(512 LBs)  
Small IO Alerts: Disabled  
Unaligned IO Alerts: Enabled  
VAAI TP Alerts: Enabled

**Multiple Volumes**

Volume Count:



# Easy Setup and Configuration

1 OVAイメージを取得  
support.emc.comからダウンロード可

2 OVAイメージの展開

3 VSI Plug-inのレジスター

VSIにvCenterのログイン情報を登録

VSIにXtremIO (XMS)のログイン情報を登録

vSphereにVSIを登録

## ※仮想マシンの必要要件

製品:	Solutions Integration Service
バージョン:	7.0.1.0 (7.0.1)
ベンダー:	EMC Corp
ゲスト OS:	SUSE Linux Enterprise 11 (64 ビット)
仮想マシンのバージョン:	7
CPU:	2 vCPU
メモリ:	8192 MB

導入方法のデモ

<https://www.youtube.com/watch?v=rcSF8LXv3qU>



# XtremIOの推奨設定

CLIやPowerShellスクリプトでも設定可能であるが、VSIでも同様の設定がGUIから簡単にできる。

クラスターレベルでの設定も可能。



**Navigator**

- Home
- vdI-sql01.vdi.xtremio
  - Santa-Clara01
    - Source-RP4VMs
    - Source\_Cluster
    - VDI-Cluster

**Source\_Cluster** Actions

**Getting Started** Summary Monitor Manage Related Objects

### What is a Cluster?

A cluster is a group of hosts. When you add a host to a cluster, the host's resources become a part of the cluster's resources. The cluster manages the resources of all hosts

**Explore Further**

- Learn more about clusters
- Learn more about resource pools

- Actions - Source\_Cluster
  - Add Host...
  - Move Hosts into Cluster...
  - New Virtual Machine
  - New vApp
  - New Resource Pool...
  - Deploy OVF Template...
  - Restore Resource Pool Tree...
  - Storage
  - Host Profiles
  - Edit Default VM Compatibility...
  - Assign License...
  - Settings
  - Move To...
  - Rename...
  - Tags
  - Add Permission...
  - Alarms
  - Delete
  - All EMC VSI Plugin Actions
    - New EMC Datastore...
    - Reclaim Unused Storage...
    - ESX Host Settings...
    - Set Path Management
  - All vRealize Orchestrator plugin Actions

**Alarms**

All (2) New (2) Acknowl...

- VMware vCenter Server (vdi-sql01.vdi.xtremio) vCenter Server Health Alarm
- scvdi17.vdi.xtremio Network uplink redundancy lost

**Work In Progress**

**Recent Tasks**

Task Name	Target	Status	Initiator	Queued For	Start Time	Completion Time	Server
emc PROV.task.emcUITask.TakeXtre...	Mgmt-Infra01	Completed	VSPHERE.LOCAL\...	8 ms	7/6/2015 4:17:46 PM	7/6/2015 4:18:02 PM	vdi-sql01.vdi.xtremio
emc PROV.task.emcUITask.TakeDat...	Mgmt-Infra01	Completed	VSPHERE.LOCAL\...	6 ms	7/6/2015 4:16:57 PM	7/6/2015 4:17:46 PM	vdi-sql01.vdi.xtremio
Take Datastore Snapshot	Mgmt-Infra01	Completed	VSPHERE.LOCAL\...	12 ms	7/6/2015 4:16:57 PM	7/6/2015 4:18:02 PM	vdi-sql01.vdi.xtremio

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**Basic Tasks**

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- Create a new virtual machine

**Source\_Cluster** Actions

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Clusters enable the vSphere High Availability (HA), the vSphere Distributed Resource Scheduler (DRS), and the Virtual SAN (VSA) solutions.

**Source\_Cluster - ESX Host Recommended Settings**

1 Set Host Settings

2 Host Credentials

3 Ready to Complete

**ESX Host Recommended Settings**

- Disk Settings
  - SchedNumReqOutstanding = 256
  - SchedQuantum = 64
  - DiskMaxIOSize = 4096
- Native Multipathing (NMP) Settings
  - Path selection policy = Round Robin (RR)
  - Round Robin path switching frequency = 1 I/O packet
- HBA queue depth = 256
- Optimize settings for cloning to XtremIO volumes

**⚠ Rebooting the ESX host is necessary.**

**⚠ The above selections require SSH Connection on the host to be enabled. Please verify that SSH is enabled on the host.**

Back Next Finish Cancel

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  - VDI-Cluster

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### Basic Tasks

- Add a host
- Create a new virtual machine

### Source\_Cluster - ESX Host Recommended Settings

- 1 Set Host Settings
- 2 Host Credentials**
- 3 Ready to Complete

Enter Host Credentials

Username:

Password:

Port:

Back Next Finish Cancel

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My Tasks Task Filter More Tasks



# VMFS/Rawデバイスの作成

VMFSやRDMのプロビジョニングを同時に複数行うことも可能。  
また、VAAI TP Alertsなどの詳細な設定も可能。

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Cluster Virtual Machines Host Datacenter vCenter Server vSphere Client

**Explore Further**

- Learn more about clusters
- Learn more about resource pools

Virtual machine

Actions - Source\_Cluster

- Add Host...
- Move Hosts into Cluster...
- New Virtual Machine
- New vApp
- New Resource Pool...
- Deploy OVF Template...
- Restore Resource Pool Tree...
- Storage
- Host Profiles
- Edit Default VM Compatibility...
- Assign License...
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- All EMC VSI Plugin Actions
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Task Name	Target	Status	Initiator	Queued For	Start Time	Completion Time	Server
emc.prov.task.emcuiTask.TakeExtre...	Mgmt-Infra01	Completed	VSPHERE.LOCAL...	8 ms	7/6/2015 4:17:46 PM	7/6/2015 4:18:02 PM	vdi-sql01.vdi.xtremio
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**Basic Tasks**

- Add a host
- Create a new virtual machine

### Source\_Cluster - New EMC Datastore

- 1 Name and Location**
- 2 Type
- 3 Array Selection
- 4 Masking View Selection
- 5 Storage Pool Selection
- 6 Datastore Details
- 7 Ready to Complete

Datastore Name:

Location: Source\_Cluster

Back Next Finish Cancel

**Alarms**

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**Basic Tasks**

- Add a host
- Create a new virtual machine

**Source\_Cluster - New EMC Datastore**

- 1 Name and Location
- 2 Type
- 3 Array Selection
- 4 Masking View Selection
- 5 Storage Pool Selection
- 6 Datastore Details
- 7 Ready to Complete

**Type**

**VMFS**  
Select this option to provision a VMFS datastore on a disk/LUN.

**NFS**  
Select this option to provision an NFS datastore on an NFS share over the network.

Back Next Finish Cancel

**Alarms**

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Take Datastore Snapshot	Mgmt-Infra01	Completed	VSPHERE.LOCAL\...	12 ms	7/6/2015 4:16:57 PM	7/6/2015 4:18:02 PM	vd-sql01.vdi.xtremio

My Tasks Tasks Filter More Tasks



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**Basic Tasks**

- Add a host
- Create a new virtual machine

**Source\_Cluster - New EMC Datastore**

- 1 Name and Location
- 2 Type
- 3 Array Selection
- 4 Masking View Selection
- 5 Storage Pool Selection
- 6 Datastore Details
- 7 Ready to Complete

Name	Model	Management IP	More Info
XIO00150200139	XtremIO	10.10.169.9	User = tech; Version = 4.0.0-64
XIO00150200115	XtremIO	10.10.169.52	User = tech; Version = 4.0.0-64
XIO00150200537	XtremIO	10.10.146.132	User = tech; Version = 4.0.0-64

Buttons: Back Next Finish Cancel

**Alarms**

All (2) New (2) Acknow...

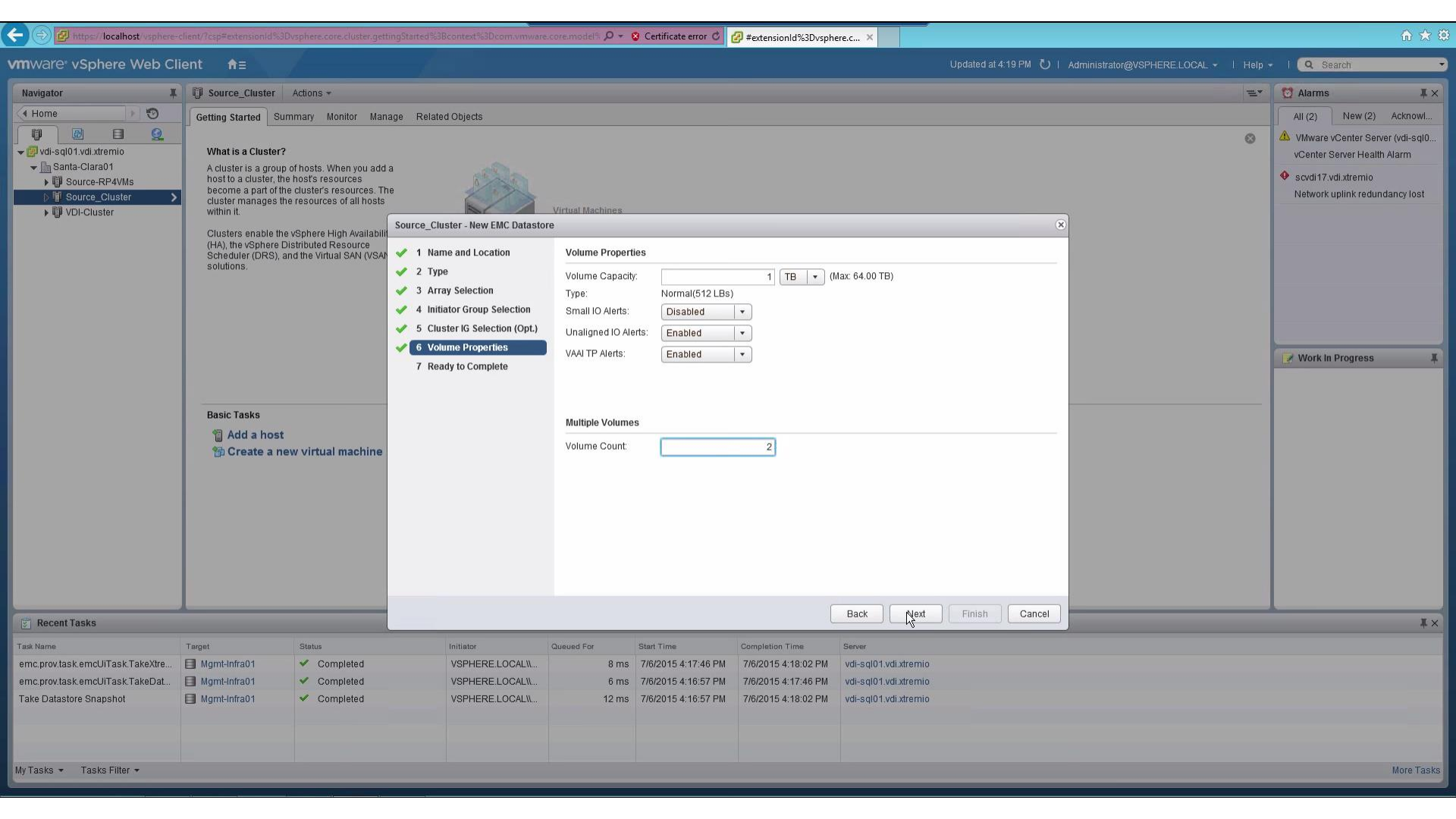
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Take Datastore Snapshot	Mgmt-Infra01	Completed	VSPHERE.LOCAL\...	12 ms	7/6/2015 4:16:57 PM	7/6/2015 4:18:02 PM	vdi-sql01.vdi.xtremio





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- Basic Tasks**
- Add a host
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**Source\_Cluster - New EMC Datastore**

- 1 Name and Location
- 2 Type
- 3 Array Selection
- 4 Initiator Group Selection
- 5 Cluster IG Selection (Opt.)
- 6 Volume Properties**
- 7 Ready to Complete

**Volume Properties**

Volume Capacity:  TB (Max: 64.00 TB)

Type: Normal(512 LBs)

Small IO Alerts: Disabled

Unaligned IO Alerts: Enabled

VAAI TP Alerts: Enabled

**Multiple Volumes**

Volume Count:

Back Next Finish Cancel

**Alarms**

All (2) New (2) Acknow...

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- Basic Tasks**
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**Source\_Cluster - New EMC Datastore**

Virtual Machines

1 Name and Location  
2 Type  
3 Array Selection  
4 Initiator Group Selection  
5 Cluster IG Selection (Opt.)  
6 Volume Properties  
7 Ready to Complete

General:

Name DS  
Type VMFS5

Storage Details:

Storage System XIO00150200537  
Array Type XtremIO  
Initiator Group(s) esx\_scvdi02, esx\_scvdi01  
Expose to Host(s) scvdi02.vdi.xtremio, scvdi01.vdi.xtremio  
Capacity 1 TB  
Volume Type Normal(512 LBs)  
Small IO Alerts Disabled  
Unaligned IO Alerts Enabled  
VAAI TP Alerts Enabled  
Volume Count 2

Back Next **Finish** Cancel

**Alarms**

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**Getting Started**

What's New

Cluster (HA), Scheduler

**Basic**

**Recent Tasks**

Task Name	Target
emc.prov.task.emcUITask.TakeXtre...	Mgmt-I-
emc.prov.task.emcUITask.TakeDat...	Mgmt-I-
Take Datastore Snapshot	Mgmt-I-

### XtremIO Storage Management Application - 10.10.146.132

Dashboard Configuration Inventory Alerts & Events Reports Administration Support

xbricks102

**Virtual**

Filter Tags

- Volumes (4 total)
- Consistency Groups (0 total)
- Snapshot Sets (1 total)
- Initiator Groups (44 total)
- Initiators (88 total)
- Schedulers (0 total)

**Volume**

Filter Volumes

Writable  Read-only  Mapped  Unmapped  Volume  Snapshot

Volume Name	Writable	Read-only	Mapped	Unmapped	Volume	Snapshot
DS-001_2015-07-06_23-33-40-249	✓		✓		11.867MB	1TB
DS-002_2015-07-06_23-33-45-337	✓		✓		11.836MB	1TB
Mgmt-Infra01	✓		✓		756.339GB	5TB
Mgmt-Infra01.snapshot.143622...	-				756.339GB	5TB

**Mapping** | Volume Snapshot Groups | Consistency Groups | Snapshot Sets | Schedulers | Alerts

LUN Mapping IDs

Volumes / Initiator Groups	esx_scvdi01	esx_scvdi02
DS-001_2015-07-06_23-33-40-249	1	1

Selected 1 Volume mapped to 2 IGS

4 Volumes displayed (4 total)  
1 selected  
Filters: Writable

xbricks102 - Active

XMS: Jul 6, 2015 10:23:28 PM IDT Local: Jul 6, 2015 4:34:05 PM PDT tech Logout

is

New (2) Acknowl...

re vCenter Server (vdi-sql0...

r Server Health Alarm

7.vdi.xtremio

rk uplink redundancy lost

In Progress

My Tasks Tasks Filter

More Tasks

- Source\_Cluster
  - scvd101.vdi.xtremio
  - scvd102.vdi.xtremio
  - 732ctx
  - 832ctx
  - analyzer01
  - appm01
  - appm02
  - appsync02
  - BrightonTempla
  - centos01
  - drv01
  - launcher-01
  - launcher-02
  - launcher-03
  - pvs01
  - pvs02
  - pvs03
  - pvs04
  - RH62
  - share-01
  - share-02
  - share-03
  - share-04
  - share-05
  - share-06
  - share-07
  - share-08
  - share-09
  - share-10
  - Solutions Integr
  - studio01
  - studio02
  - vcOPS
  - vdi-ad01
  - vdi-ad02
  - vdi-conn02
  - vdi-sql01
  - webproxy01

scvd102.vdi.xtremio VMware ESXi, 6.0.0, 2615704

- Summary
  - Virtual Machines
  - Performance
  - Configuration
  - Tasks & Events
  - Alarms
  - Permissions
  - Maps
- Hardware**
- Processors
  - Memory
  - Storage
  - Networking
  - Storage Adapters
  - Network Adapters
  - Advanced Settings
  - Power Management
- Software**
- Licensed Features
  - Time Configuration
  - DNS and Routing
  - Authentication Services
  - Power Management
  - Virtual Machine Startup/Shutdown
  - Virtual Machine Swapfile Location
  - Security Profile
  - Host Cache Configuration
  - System Resource Reservation
  - Agent VM Settings
  - Advanced Settings

View: Datasores Devices

Datasores

Administration	Status	Device	EMC Type	Capacity	Free	Type	Last Update	Health Record	Storage I/O Control	Hardware Acceleration
DS-001	Normal	EMC Disk - DS-00...	SSD	1,023.75 G	1,022.80 G	VMFSS	7/6/2015 4:34:09 PM	Enabled	Disabled	Supported
DS-002	Normal	EMC Disk - DS-00...	SSD	1,023.75 G	1,022.80 G	VMFSS	7/6/2015 4:34:09 PM	Enabled	Disabled	Supported
vmfs01	Normal	xtremio: vmfs01...	SSD	300 TB	107 TB	VMFSS	7/6/2015 4:33:57 PM	Enabled	Disabled	Supported
scvd102_local-DS	Normal	Local SEAGATE D...	Non-SSD	830.75 GB	829.66 GB	VMFSS	7/6/2015 4:33:49 PM	Enabled	Disabled	Unknown
vdi_badup	Normal	10.10.169.35/v...	Unknown	8.05 TB	5.82 TB	NFS	7/6/2015 6:04:38 AM	Enabled	Disabled	Not supported

Datasore Details

**DS-001**  
 Location: /vmfs/volumes/559b1061-39f1d439-b9ec-0025b5f6e7f 1023.75 GB Capacity  
 Hardware Acceleration: Supported 978.00 MB Used 1022.80 GB Free

Path Selection

Round Robin (VM...

**Properties**  
 Volume Label: DS-001  
 Datasore Name: DS-001

**Extents**  
 EMC Disk - DS-001\_2015-07... 1024.00 GB  
 Total Formatted Capacity 1023.75 GB

Storage I/O Control

Disabled

Paths

Total: 4  
 Broken: 0  
 Disabled: 0

**Formatting**  
 File System: VMFS 5.61  
 Block Size: 1 MB

Recent Tasks

Name	Target	Status	Details	Initiated by	vCenter Server	Requested Start
Update Lun Names	Source_Cluster	Completed	Update Lun Names	VSPHERE.LO...	vdi-sql01.vdi.xtremio	7/6/2015 4:34:05
Provision EMC Datasore	Source_Cluster	Completed	Provision EMC Datas...	VSPHERE.LO...	vdi-sql01.vdi.xtremio	7/6/2015 4:33:22
Parameter Validation	Source_Cluster	Completed	Parameter Validation	VSPHERE.LO...	vdi-sql01.vdi.xtremio	7/6/2015 4:33:41
Create Lun	Source_Cluster	Completed	Create Lun	VSPHERE.LO...	vdi-sql01.vdi.xtremio	7/6/2015 4:33:44
Rescan all HBAs	scvd101.vdi.xtremio	Completed		VSPHERE.LO...	vdi-sql01.vdi.xtremio	7/6/2015 4:33:50
Create VMFS datasore	scvd101.vdi.xtremio	Completed		VSPHERE.LO...	vdi-sql01.vdi.xtremio	7/6/2015 4:33:51
Rescan VMFS	scvd102.vdi.xtremio	Completed		System	vdi-sql01.vdi.xtremio	7/6/2015 4:33:55
Create VMFS datasore	scvd101.vdi.xtremio	Completed		VSPHERE.LO...	vdi-sql01.vdi.xtremio	7/6/2015 4:33:55
Rescan VMFS	scvd102.vdi.xtremio	Completed		System	vdi-sql01.vdi.xtremio	7/6/2015 4:33:56
Update SCSI LUN display name	scvd102.vdi.xtremio	Completed		VSPHERE.LO...	vdi-sql01.vdi.xtremio	7/6/2015 4:34:01

# データストアの拡張

データストアの容量不足している際に、VSIでアレイレベルでの拡張することが可能。

従来のように、2つの管理画面にログインして作業するよりも、一元的に操作することが可能になる。

Navigator

- Home
- vdisk01.vdi.xtremio
- Santa-Clara01
  - VDI-Storage
    - mcs-001
- DS
  - DS - DS-001
  - Browse Files
  - Register VM...
  - Refresh Capacity Information
  - Increase Datastore Capacity...
  - Mount Datastore...
  - Unmount Datastore...
  - Maintenance Mode
  - Move Out of Datastore Cluster
  - Manage Storage Providers
    - Configure Storage I/O Control...
    - Upgrade to VMFS-5...
  - Settings
  - Move To...
  - Rename...
  - Tags
  - Add Permission...
  - Alarms
    - Delete Datastore
    - All EMC VSI Plugin Actions
      - Extend Storage...
      - Take Snapshot
      - Reclaim Unused Storage...
    - All vRealize Orchestrator plugin Actions

DS-001 Actions

Getting Started Summary Monitor **Manage** Related Objects

Settings Alarm Definitions Tags Permissions Scheduled Tasks Files **EMC VSI**

AppSync Management XtremIO Management

### Subscribed Plans

Description	Protection Type	Schedule	RPO	Number of Copies	VM Consistency	Include VM Disks	Version	Enabled
Loading...								

Refresh Modify Run Subscribe Unsubscribe Subscriptions

Copy Type	Status	APIT Copy	Site	Plan Name	Storage Name
-----------	--------	-----------	------	-----------	--------------

Refresh Mount Unmount Expire Restore Event History

### Alarms

All (2) New (2) Acknowl...

- VMware vCenter Server (vdi-sql0...
- vCenter Server Health Alarm
- scvdi17.vdi.xtremio
- Network uplink redundancy lost

### Work In Progress

### Recent Tasks

Task Name	Target	Status	Initiator	Queued For	Start Time	Completion Time	Server
emc.prov.task.emcuiTask.TakeXtrem...	Mgmt-Infra01	Completed	VSPHERE.LOCALW...	8 ms	7/6/2015 4:17:46 PM	7/6/2015 4:18:02 PM	vdi-sql01.vdi.xtremio
emc.prov.task.emcuiTask.TakeDat...	Mgmt-Infra01	Completed	VSPHERE.LOCALW...	6 ms	7/6/2015 4:16:57 PM	7/6/2015 4:17:46 PM	vdi-sql01.vdi.xtremio
Take Datastore Snapshot	Mgmt-Infra01	Completed	VSPHERE.LOCALW...	12 ms	7/6/2015 4:16:57 PM	7/6/2015 4:18:02 PM	vdi-sql01.vdi.xtremio

My Tasks Tasks Filter More Tasks



Navigator

- Home
- vdi-sql01.vdi.xtremio
  - Santa-Clara01
    - VDI-Storage
      - mcs-001
      - DS-001
      - DS-002
      - Mgmt-Infra01
        - scvdi01\_local-DS
        - scvdi02\_local-DS
        - scvdi03\_local-DS
        - scvdi04\_local-DS
        - scvdi05\_local-DS
        - scvdi06\_local-DS
        - scvdi07\_local-DS
        - scvdi08\_local-DS
        - scvdi09\_local-DS
        - scvdi10\_local-DS
        - scvdi11\_local-DS
        - scvdi12\_local-DS
        - scvdi13\_local-DS
        - scvdi14\_local-DS
        - scvdi15\_local-DS
        - scvdi16\_local-DS
        - scvdi17\_local-DS
        - scvdi18\_local-DS
        - scvdi19\_local-DS
        - scvdi20\_local-DS
        - scvdi21\_local-DS
        - scvdi22\_local-DS
        - scvdi23\_local-DS

DS-001 Actions

Getting Started Summary Monitor Manage Related Objects



DS-001  
Type: VMFS5  
URL: ds://vmfs/volumes/559b1061-39f1d439-b9ec-0025b5f7ee7f/

Details

Location	ds://vmfs/volumes/559b1061-39f1d439-b9ec-0025b5f7ee7f/
Type	VMFS5
Hosts	2
Virtual machines	0
VM templates	0

Storage System

Storage Device

STORAGE

FREE: 1,022.78 GB  
USED: 978.00 MB CAPACITY: 1,023.75 ...  
Refresh

DS-001 - Extend Storage

- Extend Storage
- Ready to Complete

Storage System Details

Datastore: DS-001  
Storage System Type: XtremIO  
Storage System Name: XIO00150200537

Capacity Details

Additional Device Capacity:  TB (Max: 63.00 TB)

Back Next Finish Cancel

Alarms

All (2) New (2) Acknowl...

- VMware vCenter Server (vdi-sql01.vdi.xtremio) vCenter Server Health Alarm
- scvdi17.vdi.xtremio Network uplink redundancy lost

Work in Progress

Recent Tasks

Task Name	Target	Status	Initiator	Queued For	Start Time	Completion Time	Server
emc.prov.task.emcUITask.TakeXtre...	Mgmt-Infra01	Completed	VSPHERE.LOCAL\...	8 ms	7/6/2015 4:17:46 PM	7/6/2015 4:18:02 PM	vdi-sql01.vdi.xtremio
emc.prov.task.emcUITask.TakeDat...	Mgmt-Infra01	Completed	VSPHERE.LOCAL\...	6 ms	7/6/2015 4:16:57 PM	7/6/2015 4:17:46 PM	vdi-sql01.vdi.xtremio
Take Datastore Snapshot	Mgmt-Infra01	Completed	VSPHERE.LOCAL\...	12 ms	7/6/2015 4:16:57 PM	7/6/2015 4:18:02 PM	vdi-sql01.vdi.xtremio

Navigator

- Home
- vdi-sql01.vdi.xtremio
  - Santa-Clara01
    - VDI-Storage
      - mcs-001
        - DS-001**
        - DS-002
        - Mgmt-Infra01
          - scvdi01\_local-DS
          - scvdi02\_local-DS
          - scvdi03\_local-DS
          - scvdi04\_local-DS
          - scvdi05\_local-DS
          - scvdi06\_local-DS
          - scvdi07\_local-DS
          - scvdi08\_local-DS
          - scvdi09\_local-DS
          - scvdi10\_local-DS
          - scvdi11\_local-DS
          - scvdi12\_local-DS
          - scvdi13\_local-DS
          - scvdi14\_local-DS
          - scvdi15\_local-DS
          - scvdi16\_local-DS
          - scvdi17\_local-DS
          - scvdi18\_local-DS
          - scvdi19\_local-DS
          - scvdi20\_local-DS
          - scvdi21\_local-DS
          - scvdi22\_local-DS
          - scvdi23\_local-DS

Getting Started Summary Monitor Manage Related Objects

**DS-001**  
Type: VMFS5  
URL: ds://vmfs/volumes/559b1061-39f1d439-b9ec-0025b5f7ee7f/

**Details**

Location	ds://vmfs/volumes/559b1061-39f1d439-b9ec-0025b5f7ee7f/
Type	VMFS5
Hosts	2
Virtual machines	0
VM templates	0

**Storage System**

**Storage Device**

STORAGE FREE: 1,022.78 GB  
USED: 979.00 MB CAPACITY: 1,023.75 ... Refresh

DS-001 - Extend Storage

- 1 Extend Storage
- 2 Ready to Complete**

Storage Extension Summary

Datastore	DS-001
Storage System Type	XtremIO
Storage System Name	XIO00150200537
Additional Device Capacity	2.00 TB

Back Next **Finish** Cancel

Alarms

All (2) New (2) Acknow...

- VMware vCenter Server (vdi-sql01.vdi.xtremio) vCenter Server Health Alarm
- scvdi17.vdi.xtremio Network uplink redundancy lost

Work in Progress

Recent Tasks

Task Name	Target	Status	Initiator	Queued For	Start Time	Completion Time	Server
emc.prov.task.emcUITask.TakeXtre...	Mgmt-Infra01	Completed	VSPHERE.LOCAL\...	8 ms	7/6/2015 4:17:46 PM	7/6/2015 4:18:02 PM	vdi-sql01.vdi.xtremio
emc.prov.task.emcUITask.TakeDat...	Mgmt-Infra01	Completed	VSPHERE.LOCAL\...	6 ms	7/6/2015 4:16:57 PM	7/6/2015 4:17:46 PM	vdi-sql01.vdi.xtremio
Take Datastore Snapshot	Mgmt-Infra01	Completed	VSPHERE.LOCAL\...	12 ms	7/6/2015 4:16:57 PM	7/6/2015 4:18:02 PM	vdi-sql01.vdi.xtremio

- Source\_Cluster
  - scvdi01.vdi.xtremio
  - scvdi02.vdi.xtremio
  - 732ctx
  - 832ctx
  - analyzer01
  - appm01
  - appm02
  - appsync02
  - BrightonTemplate
  - centos01
  - drvc01
  - launcher-01
  - launcher-02
  - launcher-03
  - pvs01
  - pvs02
  - pvs03
  - pvs04
  - RH62
  - share-01
  - share-02
  - share-03
  - share-04
  - share-05
  - share-06
  - share-07
  - share-08
  - share-09
  - share-10
  - Solutions Integr
  - studio01
  - studio02
  - vCOPS
  - vdi-ad01
  - vdi-ad02
  - vdi-conn02
  - vdi-sql01
  - webproxy01

- scvdi02.vdi.xtremio
- Summary
  - Virtual
  - Hardware
    - Processors
    - Memory
    - Storage
    - Networking
    - Storage Adap
    - Network Adap
    - Advanced Se
    - Power Mana
  - Software
    - Licensed Fea
    - Time Config
    - DNS and Rou
    - Authenticat
    - Power Mana
    - Virtual Machi
    - Virtual Machi
    - Security Prot
    - Host Cache
    - System Reso
    - Agent VM Se
    - Advanced Se

Recent Tasks

- Name
- Rescan VMFS
- Expand VMFS datastore
- Rescan all HBAs
- Rescan all HBAs
- Extend Storage
- Update Lun Names
- Update SCSI LUN display name
- Update SCSI LUN display name
- Update SCSI LUN display name
- Update SCSI LUN display name
- Update SCSI LUN display name

### XtremIO Storage Management Application - 10.10.146.132

Dashboard
Configuration
Inventory
Alerts & Events
Reports
Administration
Support

EMC XtremIO

**xbricksk-102**

Virtual Create Volume Create Snapshot Create/Modify Mapping Add Volume to Consistency Group Create Snapshot Scheduler

Filter Tags

- Volumes (4 total)
- Consistency Groups (0 total)
- Snapshot Sets (1 total)
- Initiator Groups (44 total)
- Initiators (88 total)
- Schedulers (0 total)

Volume Filter Volumes

Writable
  Read-only
  Mapped
  Unmapped
  Volume
  Snapshot

Name	Read-only	Mapped	NAA Identifier	Space in Use (VSG)	Volume Size	Logical Block Size	Alignment Offset	Tags
DS-001_2015-07-06_23-33-40-249	✓	✓	514f0c5b61a00...	11.867MB	3TB	512	0	
DS-002_2015-07-06_23-33-45-337	✓	✓	514f0c5b61a00...	11.867MB	1TB	512	0	
Mgmt-Infra01	✓	✓	514f0c5b61a00...	756.374GB	5TB	512	0	
Mgmt-Infra01.snapshot.143622...	-	-		756.374GB	5TB	512	0	

Mapping Volume Snapshot Groups Consistency Groups Snapshot Sets Schedulers Alerts

LUN Mapping IDs

Volumes / Initiator Groups	esx_scvdi01	esx_scvdi02
DS-001_2015-07-06_23-33-40-249	1	1

Selected 1 Volume mapped to 2 IGS

4 Volumes displayed (4 total)  
↑ 1 selected  
 Filters : Writable

xbricksk-102 - Active
XMS: Jul 6, 2015 10:26:15 PM IDT Local: Jul 6, 2015 4:36:52 PM PDT
tech [Logout](#)

Properties...

Requested Start

7/6/2015 4:36:46
7/6/2015 4:36:42
7/6/2015 4:36:41
7/6/2015 4:36:41
7/6/2015 4:36:41
7/6/2015 4:36:24
7/6/2015 4:34:09
7/6/2015 4:34:01
7/6/2015 4:34:01
7/6/2015 4:34:01
7/6/2015 4:34:00

License Period: 545 days remaining | VDI/Administrator

- Source\_Cluster
  - scvdi01.vdi.xtremio
  - scvdi02.vdi.xtremio
  - 732ctx
  - 832ctx
  - analyzer01
  - appm01
  - appm02
  - appsync02
  - BrightonTempla
  - centos01
  - drvc01
  - launcher-01
  - launcher-02
  - launcher-03
  - pvs01
  - pvs02
  - pvs03
  - pvs04
  - RH62
  - share-01
  - share-02
  - share-03
  - share-04
  - share-05
  - share-06
  - share-07
  - share-08
  - share-09
  - share-10
  - Solutions Integra
  - studio01
  - studio02
  - vCOPS
  - vdi-ad01
  - vdi-ad02
  - vdi-conn02
  - vdi-sql01
  - webproxy01

scvdi02.vdi.xtremio VMWare ESXi, 6.0.0, 2615704

Summary Virtual Machines Performance

Configuration Tasks & Events Alarms Permissions Maps

Hardware

- Processors
- Memory
- Storage
- Networking
- Storage Adapters
- Network Adapters
- Advanced Settings
- Power Management

Software

- Licensed Features
- Time Configuration
- DNS and Routing
- Authentication Services
- Power Management
- Virtual Machine Startup/Shutdown
- Virtual Machine Swapfile Location
- Security Profile
- Host Cache Configuration
- System Resource Reservation
- Agent VM Settings
- Advanced Settings

View: Datastores Devices

Datastores

Identification	Status	Device	Drive Type	Capacity	Free	Type	Last Update	Alarm Actions	Storage I/O Control	Hardware Acceleration
DS-001	Normal	EMC Disk - DS-00...	SSD	3.00 TB	3.00 TB	VMFSS	7/6/2015 4:36:59 PM	Enabled	Disabled	Supported
DS-002	Normal	EMC Disk - DS-00...	SSD	1,023.75 G	1,022.80 G	VMFSS	7/6/2015 4:36:59 PM	Enabled	Disabled	Supported
Mgmt-Infra01	Normal	XtremIO Fibre Ch...	SSD	5.00 TB	4.04 TB	VMFSS	7/6/2015 4:36:47 PM	Enabled	Disabled	Supported
scvdi02_local-DS	Normal	Local SEAGATE D...	Non-SSD	830.75 GB	829.66 GB	VMFSS	7/6/2015 4:33:49 PM	Enabled	Disabled	Unknown
vdi_badup	Normal	10.10.169.35/vo...	Unknown	8.05 TB	5.82 TB	NFS	7/6/2015 6:04:38 AM	Enabled	Disabled	Not supported

Datastore Details

**DS-001**  
 Location: /vmfs/volumes/559b1061-39f1d439-b9ec-0025b5fFee7f 3.00 TB Capacity  
 Hardware Acceleration: Supported 989.00 MB Used 3.00 TB Free

Path Selection

Round Robin (VM...)  
 Volume Label: DS-001  
 Datastore Name: DS-001  
 Extents: EMC Disk - DS-001\_2015-07... 3.00 TB  
 Total Formatted Capacity: 3.00 TB  
 Storage I/O Control: Disabled

Paths

Total: 4  
 Broken: 0  
 Disabled: 0  
 Formatting: File System: VMFS 5.61, Block Size: 1 MB

Recent Tasks

Name	Target	Status	Details	Initiated by	vCenter Server	Requested Start
Rescan VMFS	scvdi01.vdi.xtremio	Completed		System	vdi-sql01.vdi.xtremio	7/6/2015 4:36:46
Expand VMFS datastore	scvdi02.vdi.xtremio	Completed		VSPHERE.LO...	vdi-sql01.vdi.xtremio	7/6/2015 4:36:42
Rescan all HBAs	scvdi02.vdi.xtremio	Completed		VSPHERE.LO...	vdi-sql01.vdi.xtremio	7/6/2015 4:36:41
Rescan all HBAs	scvdi01.vdi.xtremio	Completed		VSPHERE.LO...	vdi-sql01.vdi.xtremio	7/6/2015 4:36:41
Extend Storage	DS-001	In Progress	Extend Storage	VSPHERE.LO...	vdi-sql01.vdi.xtremio	7/6/2015 4:36:24
Update Lun Names	Source_Cluster	Completed	Update Lun Names	VSPHERE.LO...	vdi-sql01.vdi.xtremio	7/6/2015 4:34:09
Update SCSSLUN display name	scvdi02.vdi.xtremio	Completed		VSPHERE.LO...	vdi-sql01.vdi.xtremio	7/6/2015 4:34:01
Update SCSSLUN display name	scvdi01.vdi.xtremio	Completed		VSPHERE.LO...	vdi-sql01.vdi.xtremio	7/6/2015 4:34:01
Update SCSSLUN display name	scvdi02.vdi.xtremio	Completed		VSPHERE.LO...	vdi-sql01.vdi.xtremio	7/6/2015 4:34:01
Update SCSSLUN display name	scvdi01.vdi.xtremio	Completed		VSPHERE.LO...	vdi-sql01.vdi.xtremio	7/6/2015 4:34:00

# 未使用スペース開放

VSIIにより、データストアレベルでの未使用スペース開放を実行することができる。スケジュールをして実行することも可能。

対象は、単体のデータストアでも、フォルダ単位でグループ化して行うことも可能。（ただし、作業は開放されるデータストアは一つずつ順番に行われる）

（例）

VMを削除した場合、VMレベルのスナップショットの削除やリフレッシュした後、VMパワーオフ/オンによる不要データなど

Navigator

- Home
- vdisk01.vdi.xtremio
  - Santa-Clara01
    - VDI-Storage
      - mcs-001

mcs-001

Type: VMFS5  
URL: ds://vmfs/volumes/559313dd-89804bde-8048-0025b5ffeedf/

STORAGE FREE: 3.48 TB  
USED: 528.39 GB CAPACITY: 4.00 TB Refresh

Tags

Assigned Tag	Category
This list is empty.	

Actions

- Actions - mcs-001
- Browse Files
- Register VM...
- Refresh Capacity Information
- Increase Datastore Capacity...
- Mount Datastore...
- Unmount Datastore...
- Maintenance Mode
- Move Out of Datastore Cluster
- Manage Storage Providers
- Configure Storage I/O Control...
- Upgrade to VMFS-5...
- Settings
- Move To...
- Rename...
- Tags
- Add Permission...
- Alarms
- Delete Datastore
- All EMC VSI Plugin Actions
  - Reclaim Unused Storage...
- All vRealize Orchestrator plugin Actions
  - Take Snapshot
  - Extend Storage...

Alarms

- All (2) New (2) Acknowledg...
- VMware vCenter Server (vdi-sq...  
vCenter Server Health Alarm
- scvdi17.vdi.xtremio  
Network uplink redundancy lost
- Work In Progress

Recent Tasks

Task Name	Target	Status	Initiator	Queued For	Start Time	Completion Time	Server
Clone virtual machine	cb7/32	Completed	VSPHERE.LOCAL...	10 ms	7/6/2015 7:08:24 AM	7/6/2015 7:15:25 AM	vdi-sql01.vdi.xtremio

My Tasks Task Filter More Tasks



- Home
- vdisk01.vdi.xtremio
  - Santa-Clara01
    - VDI-Storage
      - mcs-001
      - mcs-002
      - mcs-003
      - mcs-004
      - mcs-005
      - mcs-006
      - mcs-007
      - mcs-008
      - mcs-009
      - mcs-010
      - mcs-011
      - mcs-012
      - mcs-013
      - mcs-014
      - mcs-015
      - mcs-016
      - mcs-017
      - mcs-018
    - Mgmt-Infra00
      - scvdi01\_local-DS
      - scvdi02\_local-DS
      - scvdi03\_local-DS
      - scvdi04\_local-DS
      - scvdi05\_local-DS
      - scvdi06\_local-DS
      - scvdi07\_local-DS
      - scvdi08\_local-DS

**mcs-001**  
Type: VMFS5  
URL: ds://vmfs/volumes/559313dd-89804bde-8048-0025b5ffeedf

STORAGE USED: 528.39 GB FREE: 3.48 TB CAPACITY: 4.00 TB Refresh

Details  
Storage System  
Storage Device

### Reclaim Unused Storage...

1 Reclamation Details  
2 Ready to Complete

**Storage System Details**  
Datastore: mcs-001  
Storage System Type: XtremIO  
Storage System Name: XI000150200115

**Host Details**  
Hostname/IP: scvdi16.vdi.xtremio  
Host Username: root  
Host Password:

**Reclamation Schedule**  
Schedule: Run Now (dropdown menu)

Back Next Finish Cancel

### Alarms

All (2) New (2) Acknowledg...

- VMware vCenter Server (vdi-sq...  
vCenter Server Health Alarm
- scvdi17.vdi.xtremio  
Network uplink redundancy lost

Work In Progress

Tags  
Assigned Tag Category  
This list is empty.

Task Name	Target	Status	Initiator	Queued For	Start Time	Completion Time	Server
Clone virtual machine	cb732	Completed	VSPHERE.LOCAL...	10 ms	7/6/2015 7:08:24 AM	7/6/2015 7:15:25 AM	vdisk01.vdi.xtremio

- Home
- vdisk1.vdi.xtremio
- Santa-Clara01
  - VDI-Storage
  - Actions - VDI-Storage
  - New Datastore Cluster...
  - New Datastore...
  - New Folder...
  - Move To...
  - Rename...
  - Tags
  - Add Permission...
  - Alarms
  - Remove from Inventory
  - All EMC VSI Plugin Actions
    - Reclaim Unused Storage...
- mcs-014
- mcs-015
- mcs-016
- mcs-017
- mcs-018
- Mgmt-Infra00
- scvdi01\_local-DS
- scvdi02\_local-DS
- scvdi03\_local-DS
- scvdi04\_local-DS
- scvdi05\_local-DS
- scvdi06\_local-DS
- scvdi07\_local-DS
- scvdi08\_local-DS

### VDI-Storage

Getting Started Summary Monitor Manage Related Objects

VDI-Storage

Datstores: 18  
Datastore clusters: 0

STORAGE FREE: 66.67 TB  
USED: 5.33 TB CAPACITY: 72.00 TB

id	Tag	Category	Description
This list is empty.			

Assign... Remove...

### Alarms

All (2) New (2) Acknowledg...

- VMware vCenter Server (vdi-sq...  
vCenter Server Health Alarm
- scvdi17.vdi.xtremio  
Network uplink redundancy lost

Work In Progress

### Recent Tasks

Task Name	Target	Status	Initiator	Queued For	Start Time	Completion Time	Server
Clone virtual machine	ctx732	Completed	VSPHERE.LOCAL\...	10 ms	7/6/2015 7:08:24 AM	7/6/2015 7:15:25 AM	vdi-sql01.vdi.xtremio

Navigator

- Home
- vdi-sql01.vdi.xtremio
  - Santa-Clara01
    - VDI-Storage
      - mcs-001
      - mcs-002
      - mcs-003
      - mcs-004
      - mcs-005
      - mcs-006
      - mcs-007
      - mcs-008
      - mcs-009
      - mcs-010
      - mcs-011
      - mcs-012
      - mcs-013
      - mcs-014
      - mcs-015
      - mcs-016
      - mcs-017
      - mcs-018
    - Mgmt-Infra00
      - scvdi01\_local-DS
      - scvdi02\_local-DS
      - scvdi03\_local-DS
      - scvdi04\_local-DS
      - scvdi05\_local-DS
      - scvdi06\_local-DS
      - scvdi07\_local-DS
      - scvdi08\_local-DS

VDI-Storage

Getting Started Summary Monitor Manage Related Objects

VDI-Storage

Datstores: 18  
Datstore clusters: 0

Tags

Assigned Tag	Category	Description
This list is empty.		

STORAGE FREE: 66.67 TB  
USED: 5.33 TB CAPACITY: 72.00 TB

Alarms

All (2) New (2) Acknowledg...

- VMware vCenter Server (vdi-sq...  
vCenter Server Health Alarm
- scvdi17.vdi.xtremio  
Network uplink redundancy lost

Work In Progress

Reclaim Unused Storage...

1 Reclamation Details  
2 Ready to Complete

⚠ Applying a schedule at this level will overwrite the schedules of all child objects.

Storage System Details

Datstore: All datstores under VDI-Storage  
Storage System Type: XtremIO  
Storage System Name: N/A

Host Details

Hostname/IP: N/A  
Host Username: root  
Host Password: \*\*\*\*\*

Reclamation Schedule

Schedule: Run Now

Back Next Finish Cancel

Recent Tasks

Task Name	Target	Status	Initiator	Queued For	Start Time	Completion Time	Server
Clone virtual machine	ctx732	Completed	VSPHERE.LOCALW...	10 ms	7/6/2015 7:08:24 AM	7/6/2015 7:15:25 AM	vdi-sql01.vdi.xtremio

Navigator

- Home
- vdisk1.vdi.xtremio
  - Santa-Clara01
    - VDI-Storage
      - mcs-001
      - mcs-002
      - mcs-003
      - mcs-004
      - mcs-005
      - mcs-006
      - mcs-007
      - mcs-008
      - mcs-009
      - mcs-010
      - mcs-011
      - mcs-012
      - mcs-013
      - mcs-014
      - mcs-015
      - mcs-016
      - mcs-017
      - mcs-018
      - Mgmt-Infra00
        - scvdi01\_local-DS
        - scvdi02\_local-DS
        - scvdi03\_local-DS
        - scvdi04\_local-DS
        - scvdi05\_local-DS
        - scvdi06\_local-DS
        - scvdi07\_local-DS
        - scvdi08\_local-DS

VDI-Storage

Getting Started Summary Monitor Manage Related Objects

VDI-Storage

Datstores: 18  
Datstore clusters: 0

STORAGE FREE: 66.67 TB  
USED: 5.33 TB CAPACITY: 72.00 TB

Tags

Assigned Tag	Category	Description
This list is empty.		

Reclaim Unused Storage...

- 1 Reclamation Details
- 2 Ready to Complete

Reclamation Details:

Datastore	VDI-Storage
Storage System Type	XtremIO
Storage System Name	N/A
Hostname/IP	N/A
Host Username	root
Schedule	Run Now

Back Next Finish Cancel

Alarms

All (2) New (2) Acknowledg...

- VMware vCenter Server (vdi-sq...  
vCenter Server Health Alarm
- scvdi17.vdi.xtremio  
Network uplink redundancy lost

Work In Progress

Recent Tasks

Task Name	Target	Status	Initiator	Queued For	Start Time	Completion Time	Server
Clone virtual machine	ctx732	Completed	VSPHERE.LOCALW...	10 ms	7/6/2015 7:08:24 AM	7/6/2015 7:15:25 AM	vdi-sql01.vdi.xtremio



Dashboard



Configuration



Inventory



Alerts & Events



Reports



Administration



Support

xbrick73

### Storage

Overall Efficiency 267.1:1

Data Reduction Ratio 10.2:1

Deduplication 5.2:1

Compression 2.0:1

Thin Provisioning Saving 96%

Volume Capacity 72.444TB

277.786GB Physical Space Used



Physical Capacity 7.587TB



### Inventory



X-Bricks 1

Storage Controllers 2

SSDs 25

### Performance

Bandwidth IOPS Latency

Write  Read

#### Current Total

#### Most Active



2KB < 1MB/s

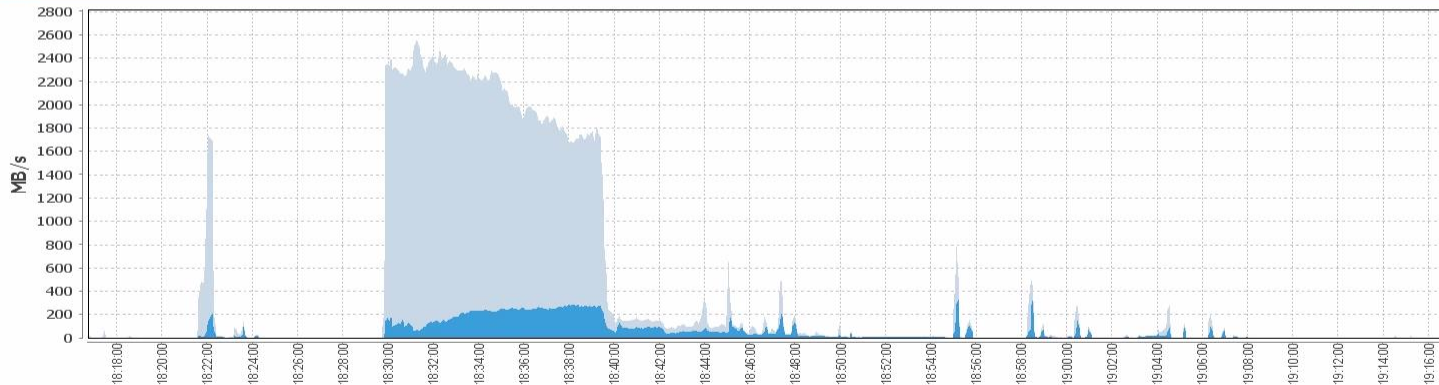
16KB < 1MB/s

4KB < 1MB/s

Block Size

#### History

Last Hour



### No Alerts

Severity	Cluster	Code	Date and Time	Entity	Entity Details	Description



Dashboard



Configuration



Inventory



Alerts & Events



Reports



Administration



Support

xbrick73

### Storage

Overall Efficiency 266.9:1

Data Reduction Ratio 10.1:1

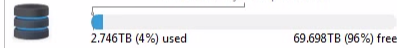
Deduplication 5.2:1

Compression 2.0:1

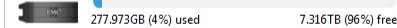
Thin Provisioning Saving 96%

Volume Capacity 72.444TB

277.973GB Physical Space Used



Physical Capacity 7.587TB



### Inventory



X-Bricks 1

Storage Controllers 2

SSDs 25

### Performance

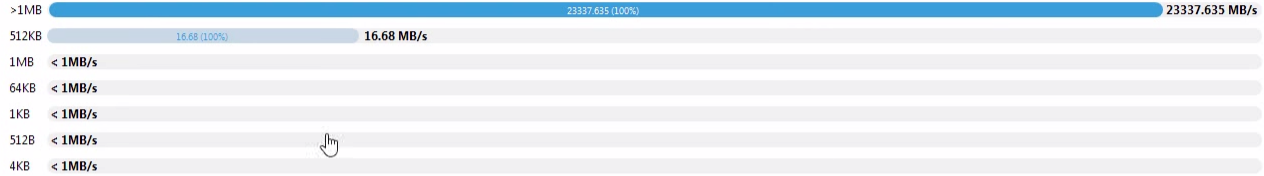
Bandwidth IOPS Latency

Write  Read

#### Current Total



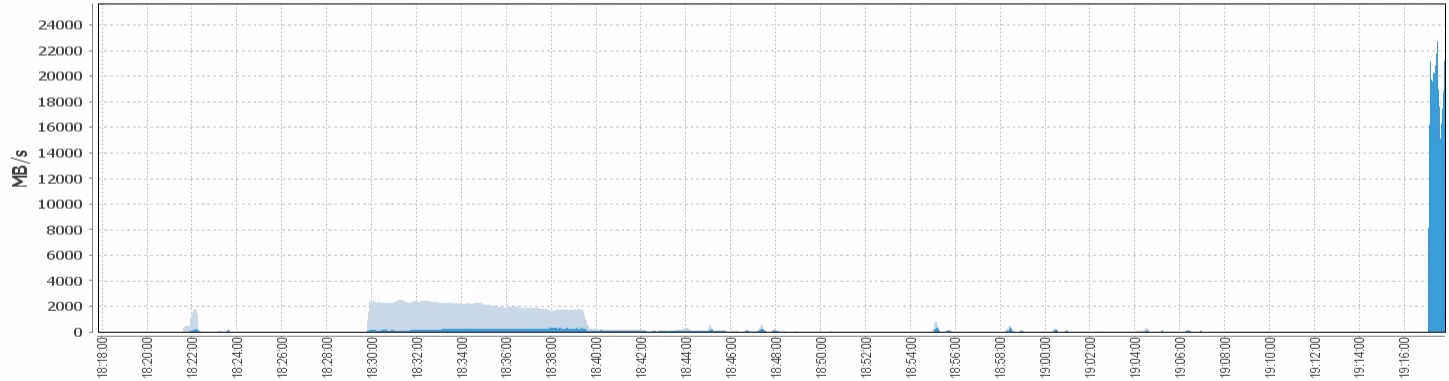
#### Most Active



Block Size

#### History

Last Hour



### No Alerts

Severity	Cluster	Code	Date and Time	Entity	Entity Details	Description





Dashboard



Configuration



Inventory



Alerts & Events



Reports



Administration



Support

xbrick73

### Storage

Overall Efficiency 266.8:1

Data Reduction Ratio 10.1:1

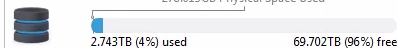
Deduplication 5.2:1

Compression 2.0:1

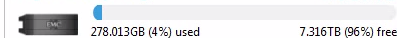
Thin Provisioning Saving 96%

Volume Capacity 72.444TB

278.013GB Physical Space Used



Physical Capacity 7.587TB



### Inventory



X-Bricks 1

Storage Controllers 2

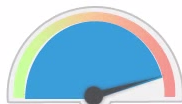
SSDs 25

### Performance

Bandwidth IOPS Latency

Write  Read

#### Current Total

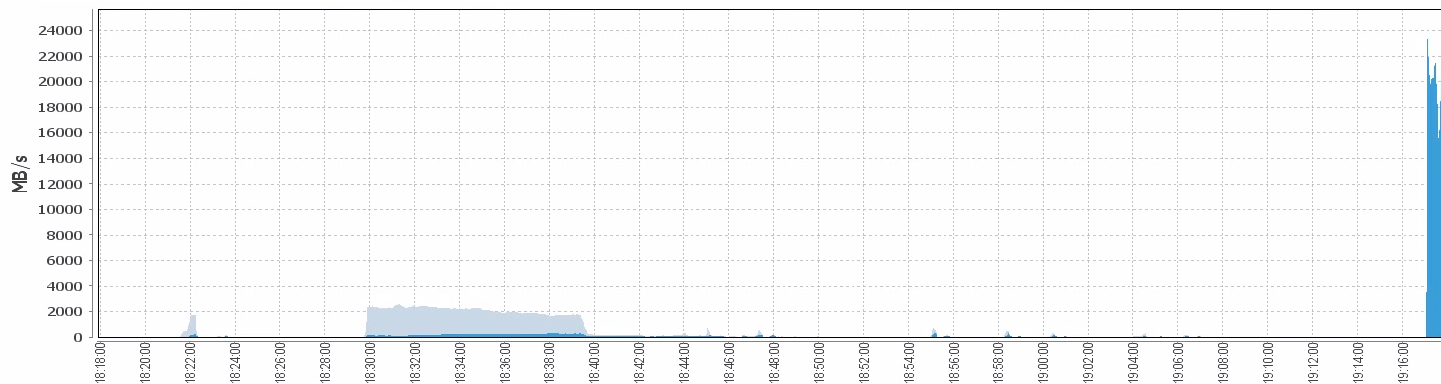


#### Most Active

Volume	Bandwidth
mcs-001	19345.849 (100%)
Target-PRPAs...	< 1MB/s
mcs-003	< 1MB/s
mcs-002	< 1MB/s
mcs-005	< 1MB/s
mcs-004	< 1MB/s
mcs-007	< 1MB/s

Volume: mcs-001  
 Cluster: xbrick73  
 Write: 19,810,149 (100%) KB/s, Read: 12,922 (0%) KB/s

#### History



### No Alerts

Severity	Cluster	Code	Date and Time	Entity	Entity Details	Description



# アレイ論理使用量を VMFSレベルで確認

データストアの“アレイ上”の論理ボリューム消費量をvCenterのデータストアタブから確認できる。

※例) 5TBのデータストアを作成し、40GBのVMを配置する。XtremIOの重複除外と圧縮で実際にはそれぞれ20GBまでデータが削減されている。

vSphere上では、合計80GB消費されているが、アレイ上では、40GBのみ消費されている。ことを、vSphereで確認できる。

**Mgmt-Infra01** Actions

Getting Started Summary Monitor Manage Related Objects

Hosts: 2  
Virtual machines: 42  
VM templates: 0

**Storage System**

Name: XIO00150200537  
Model: XtremIO

**Storage Device**

Device ID: f8e201ce41f34d  
Device Name: Mgmt-Infra01  
NAA Name: 514f0c5b61a000  
Initiator Group(s): esx\_scvdi01, esx\_scvdi02  
Initiator Group Type: FC  
Small IO Alerts: Disabled  
Unaligned IO Alerts: Disabled  
VAAI TP Alerts: Disabled  
Logic Block Size: 512 bytes  
Alignment Offset: 0  
Total Capacity: 5.00 TB

Logical capacity consumed by XtremIO: 756.14 GB

**Recent Tasks**

Task Name	Target	Status	Initiator
Refresh storage information	Mgmt-Infra00	Completed	VS
Resignature unresolved VMFS volu...	scvdi04.vdi.xtremio	Completed	VS
Mount XtremIO Snapshot	mcs-002	Completed	VS

**XtremIO Storage Management Application - 10.10.146.132**

Dashboard Configuration Inventory Alerts & Events Reports Administration Support

**xbricks102**

Virtual Volumes (2 total)

Name	Read-only	Mapped	NAA Identifier	Space in Use (VSG)	Volume Size	Logical Block Size	Alignment Offset	Tag
Mgmt-Infra01		✓	514f0c5b61a00...	756.152GB	5TB	512	0	
Mgmt-Infra01-snapshot-142622				756.152GB	5TB	512	0	

Mapping

Volumes / Initiator Groups	esx_scvdi01	esx_scvdi02
Mgmt-Infra01	2	2

Selected 1 Volume mapped to 2 IGs

2 Volumes displayed (2 total)  
1 selected  
Filters: Writable

# アレイベースのスナップショット

アレイレベルでのスナップショットを実行できる。

VSIで取ったスナップショットは、XtremIOのGUI上で、“VSI Snapshots”というタブが作られ、識別することが可能。

さらに、vSphere上でも、“VSI created Snapshots”タブから確認することが可能。

スナップショットから、VMをリストアしたい場合には、“Mount”のボタンとESXiホストを選択。

VSIが自動でLUNのマッピングを行う。

署名を変更して、データストアをホストに提供するので、特定のVMをスナップした、VMFSから別のVMFSへコピーすることも可能。



Navigator: Mgmt-Infra01

Summary

2  
42  
0

XIO00150200537  
XtremIO

powered by EMC

f8e201ce41f34de0837c2104e39851ef  
Mgmt-Infra01  
514f0c5b61a00006  
esx\_scvdi01, esx\_scvdi02  
FC  
Disabled

Extend Storage...  
Take Snapshot  
Reclaim Unused Storage...

Total Capacity 5.00 TB  
Logical capacity consumed by XtremIO 756.14 GB

Alarms: VMware vCenter Server (vdi-sql01.vdi.xtremio) vCenter Server Health Alarm scvdi17.vdi.xtremio Network uplink redundancy lost

Work In Progress

Recent Tasks

Task Name	Target	Status	Initiator	Queued For	Start Time	Completion Time	Server
Refresh storage information	Mgmt-Infra00	Completed	VSPHERE.LOCAL\...	8 ms	7/6/2015 3:46:55 PM	7/6/2015 3:46:56 PM	vdi-sql01.vdi.xtremio
Resignature unresolved VMFS volu...	scvdi04.vdi.xtremio	Completed	VSPHERE.LOCAL\...	8 ms	7/6/2015 3:35:46 PM	7/6/2015 3:36:19 PM	vdi-sql01.vdi.xtremio
Mount XtremIO Snapshot	mcs-002	Completed	VSPHERE.LOCAL\...	12 ms	7/6/2015 3:34:35 PM	7/6/2015 3:36:32 PM	vdi-sql01.vdi.xtremio



**Navigator**

- Datastores
- Mgmt-Infra01**
  - Virtual Machines 42
  - Hosts 2

**Mgmt-Infra01** Actions

Getting Started | **Summary** | Monitor | Manage | Related Objects

Hosts: 2  
Virtual machines: 42  
VM templates: 0

**Storage System**

Name: XIO00150200537  
Model: XtremIO

**Storage Device**

Device ID	f8e201ce41f34de0837c2104e3985
Device Name	Mgmt-Infra01
NAA Name	514f0c5b61a00006
Initiator Group(s)	esx_scvdi01, esx_scvdi02
Initiator Group Type	FC
Small IO Alerts	Disabled
Unaligned IO Alerts	Disabled
VAI TP Alerts	Disabled
Logic Block Size	512 bytes
Alignment Offset	0
Total Capacity	5.00 TB
Logical capacity consumed by XtremIO	756.14 GB

powered by EMC

**Take Snapshot**

Task is submitted.

OK

**Alarms**

All (2) | New (2) | Acknowl...

- VMware vCenter Server (vdi-sql0...  
vCenter Server Health Alarm
- scvdi17.vdi.xtremio  
Network uplink redundancy lost

**Work In Progress**

**Recent Tasks**

Task Name	Target	Status	Initiator	Queued For	Start Time	Completion Time	Server
Refresh storage information	Mgmt-Infra00	Completed	VSPHERE.LOCAL\...	8 ms	7/6/2015 3:46:55 PM	7/6/2015 3:46:56 PM	vdi-sql01.vdi.xtremio
Resignature unresolved VMFS volu...	scvdi04.vdi.xtremio	Completed	VSPHERE.LOCAL\...	8 ms	7/6/2015 3:35:46 PM	7/6/2015 3:36:19 PM	vdi-sql01.vdi.xtremio
Mount XtremIO Snapshot	mcs-002	Completed	VSPHERE.LOCAL\...	12 ms	7/6/2015 3:34:35 PM	7/6/2015 3:36:32 PM	vdi-sql01.vdi.xtremio

Santa-Clara01

- VDI-Storage
  - mcs-001
    - Mgmt-Infra01
      - scvdi01\_local-DS
      - scvdi02\_local-DS
      - scvdi03\_local-DS
      - scvdi04\_local-DS
      - scvdi05\_local-DS
      - scvdi06\_local-DS
      - scvdi07\_local-DS
      - scvdi08\_local-DS
      - scvdi09\_local-DS
      - scvdi10\_local-DS
      - scvdi11\_local-DS
      - scvdi12\_local-DS
      - scvdi13\_local-DS
      - scvdi14\_local-DS
      - scvdi15\_local-DS
      - scvdi16\_local-DS
      - scvdi17\_local-DS
      - scvdi18\_local-DS
      - scvdi19\_local-DS
      - scvdi20\_local-DS
      - scvdi21\_local-DS
      - scvdi22\_local-DS
      - scvdi23\_local-DS
      - scvdi24\_local-DS
      - scvdi25\_local-DS
      - scvdi26\_local-DS
      - scvdi27\_local-DS
      - scvdi28\_local-DS
      - scvdi29\_local-DS
      - scvdi30\_local-DS
      - scvdi31\_local-DS
      - scvdi32\_local-DS
      - scvdi33\_local-DS
      - scvdi34\_local-DS
      - scvdi35\_local-DS
      - scvdi36\_local-DS
      - scvdi37\_local-DS

Mgmt-Infra01

Summary Virtual Machines

General

Location: ds:///vmfs/volumes/...

Type: Virtual Machines and Templates

Number of Hosts Connected: ...

Commands

- Refresh
- Browse Datastore...

Recent Tasks

Name	Target
Take XtremIO Datastore Snapshot	Mgmt-Infra01
Take Datastore Snapshot	Mgmt-Infra01
Relocate virtual machine	vd...
Relocate virtual machine	vd...
Relocate virtual machine	vd...
Relocate virtual machine	vd...
Relocate virtual machine	st...
Relocate virtual machine	st...
Relocate virtual machine	st...
Relocate virtual machine	xd...
Relocate virtual machine	webproxy...

XtremIO Storage Management Application - 10.10.146.132

Dashboard Configuration Inventory Alerts & Events Reports Administration Support

EMC XtremIO

xbricks102

Virtual

Filter Tags

- Volumes (3 total)
  - VSI Snapshots (1)
- Consistency Groups (0 total)
- Snapshot Sets (2 total)
- Initiator Groups (44 total)
- Initiators (88 total)
- Schedulers (0 total)

Volume

Create Volume Create Snapshot Create/Modify Mapping Add Volume to Consistency Group Create Snapshot Scheduler

Filter Volumes

Writable  Read-only  Mapped  Unmapped  Volume  Snapshot

Name	Read-only	Mapped	NAA Identifier	Space in Use (VSG)	Volume Size	Logical Block Size	Alignment Offset	Tags
Mgmt-Infra01.snap.20150706_2...	-	-		756.215GB	5TB	512	0	VSI Snapshots

Mapping Volume Snapshot Groups Consistency Groups Snapshot Sets Schedulers Alerts

LUN Mapping IDs

Volumes / Initiator Groups

Mgmt-Infra01.snap.20150706\_2318...

Selected 1 Volume mapped to 0 IGs

1 Volume displayed (3 total)  
1 selected  
Filters : Writable; Tag: 'VSI Snapshots'

xbricks102 - Active

XMS: Jul 6, 2015 10:07:57 PM IDT Local: Jul 6, 2015 4:18:34 PM PDT tech Logout

Requested Start

7/6/2015 4:17:46
7/6/2015 4:16:57
7/6/2015 4:09:34
7/6/2015 4:12:11
7/6/2015 4:09:34
7/6/2015 4:09:34
7/6/2015 4:09:34
7/6/2015 4:09:34
7/6/2015 4:09:34
7/6/2015 4:09:34
7/6/2015 4:09:34

**Santa-Clara01**

- VDI-Storage
  - mcs-001
    - Mgmt-Infra01
      - scvdi01\_local-DS
      - scvdi02\_local-DS
      - scvdi03\_local-DS
      - scvdi04\_local-DS
      - scvdi05\_local-DS
      - scvdi06\_local-DS
      - scvdi07\_local-DS
      - scvdi08\_local-DS
      - scvdi09\_local-DS
      - scvdi10\_local-DS
      - scvdi11\_local-DS
      - scvdi12\_local-DS
      - scvdi13\_local-DS
      - scvdi14\_local-DS
      - scvdi15\_local-DS
      - scvdi16\_local-DS
      - scvdi17\_local-DS
      - scvdi18\_local-DS
      - scvdi19\_local-DS
      - scvdi20\_local-DS
      - scvdi21\_local-DS
      - scvdi22\_local-DS
      - scvdi23\_local-DS
      - scvdi24\_local-DS
      - scvdi25\_local-DS
      - scvdi26\_local-DS
      - scvdi27\_local-DS
      - scvdi28\_local-DS
      - scvdi29\_local-DS
      - scvdi30\_local-DS
      - scvdi31\_local-DS
      - scvdi32\_local-DS
      - scvdi33\_local-DS
      - scvdi34\_local-DS
      - scvdi35\_local-DS
      - scvdi36\_local-DS
      - scvdi37\_local-DS

**Mgmt-Infra01**

Summary Virtual Machines

**General**

Location: ds:///vmfs/vo

Type: Virtual Machines and Templates

Number of Hosts Connected:

**Commands**

- Refresh
- Browse Datastore...

**Recent Tasks**

Name	Target
Take XtremIO Datastore Snapshot	Mgmt-Infra01
Take Datastore Snapshot	Mgmt-Infra01
Relocate virtual machine	scvdi01_local-DS
Relocate virtual machine	scvdi02_local-DS
Relocate virtual machine	scvdi03_local-DS
Relocate virtual machine	scvdi04_local-DS
Relocate virtual machine	scvdi05_local-DS
Relocate virtual machine	scvdi06_local-DS
Relocate virtual machine	scvdi07_local-DS
Relocate virtual machine	scvdi08_local-DS
Relocate virtual machine	scvdi09_local-DS
Relocate virtual machine	scvdi10_local-DS
Relocate virtual machine	scvdi11_local-DS
Relocate virtual machine	scvdi12_local-DS
Relocate virtual machine	scvdi13_local-DS
Relocate virtual machine	scvdi14_local-DS
Relocate virtual machine	scvdi15_local-DS
Relocate virtual machine	scvdi16_local-DS
Relocate virtual machine	scvdi17_local-DS
Relocate virtual machine	scvdi18_local-DS
Relocate virtual machine	scvdi19_local-DS
Relocate virtual machine	scvdi20_local-DS
Relocate virtual machine	scvdi21_local-DS
Relocate virtual machine	scvdi22_local-DS
Relocate virtual machine	scvdi23_local-DS
Relocate virtual machine	scvdi24_local-DS
Relocate virtual machine	scvdi25_local-DS
Relocate virtual machine	scvdi26_local-DS
Relocate virtual machine	scvdi27_local-DS
Relocate virtual machine	scvdi28_local-DS
Relocate virtual machine	scvdi29_local-DS
Relocate virtual machine	scvdi30_local-DS
Relocate virtual machine	scvdi31_local-DS
Relocate virtual machine	scvdi32_local-DS
Relocate virtual machine	scvdi33_local-DS
Relocate virtual machine	scvdi34_local-DS
Relocate virtual machine	scvdi35_local-DS
Relocate virtual machine	scvdi36_local-DS
Relocate virtual machine	scvdi37_local-DS

XtremIO Storage Management Application - 10.10.146.132

EMC<sup>2</sup> XtremIO

Dashboard Configuration Inventory Alerts & Events Reports Administration Support

**xbricksc102**

**Virtual**

Filter Tags

- Volumes (3 total)
  - VSI Snapshots (1)
  - Consistency Groups (0 total)
  - Snapshot Sets (2 total)
  - Initiator Groups (44 total)
  - Initiators (88 total)
  - Schedulers (0 total)

**Volume**

Create Volume Create Snapshot Create/Modify Mapping Add Volume to Consistency Group Create Snapshot Scheduler

Filter Volumes

Writable  Read-only  Mapped  Unmapped  Volume  Snapshot

Name	Read-only	Mapped	NAA Identifier	Space in Use (VSG)	Volume Size	Logical Block Size	Alignment Offset	Tags
Mgmt-Infra01	✓	✓	514f0c5b61a00...	756.216GB	5TB	512	0	
Mgmt-Infra01.snap.20150706_2...	-	-		756.216GB	5TB	512	0	VSI Snapshots
Mgmt-Infra01.snapshot.143622...	-	-		756.216GB	5TB	512	0	

Mapping Volume Snapshot Groups Consistency Groups Snapshot Sets Schedulers Alerts

LUN Mapping IDs

Volumes / Initiator Groups

Mgmt-Infra01.snap.20150706\_2318...

Selected 1 Volume mapped to 0 IGs

3 Volumes displayed (3 total)  
1 selected  
Filters: Writable

xbricksc102 - Active

XS: Jul 6, 2015 10:08:16 PM IDT Local: Jul 6, 2015 4:18:53 PM PDT tech Logout

Clear

Requested Start
7/6/2015 4:17:46
7/6/2015 4:16:57
7/6/2015 4:09:34
7/6/2015 4:12:11
7/6/2015 4:09:34
7/6/2015 4:09:34
7/6/2015 4:09:34
7/6/2015 4:09:34
7/6/2015 4:09:34
7/6/2015 4:09:34
7/6/2015 4:09:34
7/6/2015 4:09:34

**Navigator**

- Datastores
- Mgmt-Infra01**
  - Virtual Machines 42
  - Hosts 2

**Mgmt-Infra01** Actions

Getting Started Summary Monitor **Manage** Related Objects

Settings Alarm Definitions Tags Permissions Scheduled Tasks Files **EMC VSI**

AppSync Management **XtremIO Management**

**SnapShots**

Snapshot Name	Ancestor Name	Creation Time	VSI Created Snapshots	System Id	System Address	Cluster Name	Small IO Alerts	Unaligned IO Alerts	VAAI TP Alerts
Mgmt-Infra01...	Mgmt-Infra01	2015-07-06 22:02:36	false	XIO00150200537	10.10.146.132	xbricks102	disabled	disabled	disabled
Mgmt-Infra01...	Mgmt-Infra01	2015-07-06 22:07:24	true	XIO00150200537	10.10.146.132	xbricks102	disabled	disabled	disabled

Refresh Mount

**Alarms**

All (2) New (2) Acknow...

- VMware vCenter Server (vdi-sql0... vCenter Server Health Alarm
- scvdi17.vdi.xtremio Network uplink redundancy lost

**Work In Progress**

**Recent Tasks**

Task Name	Target	Status	Initiator	Queued For	Start Time	Completion Time	Server
emc.prov.task.emcUiTask.TakeXtre...	Mgmt-Infra01	Completed	VSPHERE.LOCAL\...	8 ms	7/6/2015 4:17:46 PM	7/6/2015 4:18:02 PM	vdi-sql01.vdi.xtremio
emc.prov.task.emcUiTask.TakeDat...	Mgmt-Infra01	Completed	VSPHERE.LOCAL\...	6 ms	7/6/2015 4:16:57 PM	7/6/2015 4:17:46 PM	vdi-sql01.vdi.xtremio
Take Datastore Snapshot	Mgmt-Infra01	Completed	VSPHERE.LOCAL\...	12 ms	7/6/2015 4:16:57 PM	7/6/2015 4:18:02 PM	vdi-sql01.vdi.xtremio

**Navigator**

- ← Datastores
- Mgmt-Infra01**
  - Virtual Machines 42
  - Hosts 2

**Mgmt-Infra01** Actions

Getting Started Summary Monitor **Manage** Related Objects

Settings Alarm Definitions Tags Permissions Scheduled Tasks Files **EMC VSI**

AppSync Management **XtremIO Management**

**SnapShots**

Snapshot Name	Ancestor Name	Creation Time	VSI Created Snapshots	System Id	System Address	Cluster Name	Small IO Alerts	Unaligned IO Alerts	VAAI TP Alerts
Mgmt-Infra01...	Mgmt-Infra01	2015-07-06 22:02:36	false	XIO00150200537	10.10.146.132	xbricks102	disabled	disabled	disabled
Mgmt-Infra01...	Mgmt-Infra01	2015-07-06 22:07:24	true	XIO00150200537	10.10.146.132	xbricks102	disabled	disabled	disabled

Refresh Mount

**Alarms**

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Take Datastore Snapshot	Mgmt-Infra01	✓ Completed	VSPHERE.LOCAL\...	12 ms	7/6/2015 4:16:57 PM	7/6/2015 4:18:02 PM	vdi-sql01.vdi.xtremio

My Tasks Tasks Filter More Tasks

**Navigator**

- Datastores
- Mgmt-Infra01**
  - Virtual Machines 42
  - Hosts 2

**Mgmt-Infra01** Actions

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**SnapShots**

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Mgmt-Infra01...	Mgmt-Infra01	2015-07-06 22:07:24	true	XIO00150200537	10.10.146.132	xbricks102	disabled	disabled	disabled

Refresh Mount

**XtremIO Snapshot Mount Settings**

Mount On Host: **scvdi02.vdi.xtremio**

OK Cancel

**Alarms**

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**Work In Progress**

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emc.prov.task.emcUiTask.TakeXtre...	Mgmt-Infra01	Completed	VSPHERE.LOCAL\...	8 ms	7/6/2015 4:17:46 PM	7/6/2015 4:18:02 PM	vdi-sql01.vdi.xtremio
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Take Datastore Snapshot	Mgmt-Infra01	Completed	VSPHERE.LOCAL\...	12 ms	7/6/2015 4:16:57 PM	7/6/2015 4:18:02 PM	vdi-sql01.vdi.xtremio



- Santa-Clara01
  - VDI-Storage
    - mcs-001
      - Mgmt-Infra01
        - scvdi01\_local-DS
        - scvdi02\_local-DS
        - scvdi03\_local-DS
        - scvdi04\_local-DS
        - scvdi05\_local-DS
        - scvdi06\_local-DS
        - scvdi07\_local-DS
        - scvdi08\_local-DS
        - scvdi09\_local-DS
        - scvdi10\_local-DS
        - scvdi11\_local-DS
        - scvdi12\_local-DS
        - scvdi13\_local-DS
        - scvdi14\_local-DS
        - scvdi15\_local-DS
        - scvdi16\_local-DS
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        - scvdi19\_local-DS
        - scvdi20\_local-DS
        - scvdi21\_local-DS
        - scvdi22\_local-DS
        - scvdi23\_local-DS
        - scvdi24\_local-DS
        - scvdi25\_local-DS
        - scvdi26\_local-DS
        - scvdi27\_local-DS
        - scvdi28\_local-DS
        - scvdi29\_local-DS
        - scvdi30\_local-DS
        - scvdi31\_local-DS
        - scvdi32\_local-DS
        - scvdi33\_local-DS
        - scvdi34\_local-DS
        - scvdi35\_local-DS
        - scvdi36\_local-DS
        - scvdi37\_local-DS

Mgmt-Infra01

Summary Virt

General

Location: d

Type: Number of Host Virtual Machines

Commands

Refresh

Browse Data

- Recent Tasks
- Mask XtremIO Snapshot
  - Mount XtremIO Snapshot
  - Take XtremIO Datastore Snapshot
  - Take Datastore Snapshot
  - Relocate virtual machine
  - Take Datastore Snapshot Condition Check
  - Rescan all HBAs
  - Resignature unresolved VMFS volume

### XtremIO Storage Management Application - 10.10.146.132

Dashboard
Configuration
Inventory
Alerts & Events
Reports
Administration
Support

EMC XtremIO

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**xbricksc102**

Virtual

Filter Tags

- Volumes (3 total)
  - VSI Snapshots (1)
- Consistency Groups (0 total)
- Snapshot Sets (2 total)
- Initiator Groups (44 total)
- Initiators (88 total)
- Schedulers (0 total)

**Volume**

Create Volume Create Snapshot Create/Modify Mapping Add Volume to Consistency Group Create Snapshot Scheduler

Filter Volumes

Writable  Read-only  Mapped  Unmapped  Volume  Snapshot

Name	Read-only	Mapped	NAA Identifier	Space in Use (VSG)	Volume Size	Logical Block Size	Alignment Offset	Tags
Mgmt-Infra01.snap.20150706_2...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	514f0c5b61a00...	756.24GB	5TB	512	0	VSI Snapshots

LUN Mapping IDs

Volumes / Initiator Groups	esx_scvdi02
Mgmt-Infra01.snap.20150706_2318...	1

Selected 1 Volume mapped to 1 IG

1 Volume displayed (3 total)  
1 selected  
Filters : Writable; Tag: 'VSI Snapshots'

xbricksc102 - Active
XMS: Jul 6, 2015 10:11:38 PM IDT Local: Jul 6, 2015 4:22:15 PM PDT
tech [Logout](#)

- Source\_Cluster
  - scvdi01.vdi.xtremio
  - scvdi02.vdi.xtremio
  - 732ctx
  - 832ctx
  - analyzer01
  - appm01
  - appm02
  - appsync02
  - BrightonTemplate
  - centos01
  - drv01
  - launcher-01
  - launcher-02
  - launcher-03
  - pvs01
  - pvs02
  - pvs03
  - pvs04
  - RH62
  - share-01
  - share-02
  - share-03
  - share-04
  - share-05
  - share-06
  - share-07
  - share-08
  - share-09
  - share-10
  - Solutions Integrator
  - studio01
  - studio02
  - vcOPS
  - vdi-ad01
  - vdi-ad02
  - vdi-conn02
  - vdi-sql01
  - webproxy01

scvdi02.vdi.xtremio VMware ESXi, 6.0.0, 2615704

Summary Virtual Machines Performance

- Hardware
  - Processors
  - Memory
  - Storage
  - Networking
  - Storage Adapters
  - Network Adapters
  - Advanced Settings
  - Power Management
- Software
  - Licensed Features
  - Time Configuration
  - DNS and Routing
  - Authentication Services
  - Power Management
  - Virtual Machine Startup/Shutdown
  - Virtual Machine Swapfile Location
  - Security Profile
  - Host Cache Configuration
  - System Resource Reservation
  - Agent VM Settings
  - Advanced Settings

Configuration Tasks & Events Alarms Permissions Maps

View: Datastores Devices

Datastores

Identification	Status	Device	Drive Type	Capacity	Free	Type	Last Update	Alarm Actions	Storage I/O Control	Hardware Acceleration
Mgmt-Infra01	Normal	XtremIO Fibre Ch...	SSD	5.00 TB	4.04 TB	VMFSS	7/6/2015 4:15:09 PM	Enabled	Disabled	Supported
scvdi02_local-DS	Normal	Local SEAGATE D...	Non-SSD	830.75 GB	829.66 GB	VMFSS	7/6/2015 4:00:39 PM	Enabled	Disabled	Unknown
snap-3169a991-Mgmt-Infra01	Normal	XtremIO Fibre Ch...	SSD	5.00 TB	4.04 TB	VMFSS	7/6/2015 4:35:38 PM	Enabled	Disabled	Supported
vdi_bakup	Normal	10.10.169.35/v...	Unknown	8.05 TB	5.82 TB	NFS	7/6/2015 6:04:38 AM	Enabled	Disabled	Not supported

Datastore Browser - [snap-3169a991-Mgmt-Infra01]

[snap-3169a991-Mgmt-Infra01] /

Name	Size	Type	Path
vdi-conn02		Folder	[snap-3169a991-Mgmt-Infra01] vdi-...
share-04		Folder	[snap-3169a991-Mgmt-Infra01] sha...
webproxy01		Folder	[snap-3169a991-Mgmt-Infra01] we...
wkr212sp		Folder	[snap-3169a991-Mgmt-Infra01] wkr...
appsync02		Folder	[snap-3169a991-Mgmt-Infra01] app...
832ctx		Folder	[snap-3169a991-Mgmt-Infra01] 832...
share-05		Folder	[snap-3169a991-Mgmt-Infra01] sha...
wsus01		Folder	[snap-3169a991-Mgmt-Infra01] wsu...
.sddf		Folder	[snap-3169a991-Mgmt-Infra01] .sdd...
share-06		Folder	[snap-3169a991-Mgmt-Infra01] sha...
vcOPS		Folder	[snap-3169a991-Mgmt-Infra01] sha...
win7view		Folder	[snap-3169a991-Mgmt-Infra01] vC...
analyzer01		Folder	[snap-3169a991-Mgmt-Infra01] win...
share-07		Folder	[snap-3169a991-Mgmt-Infra01] ana...
pvs04		Folder	[snap-3169a991-Mgmt-Infra01] sha...
share-07		Folder	[snap-3169a991-Mgmt-Infra01] sha...

Paths  
Total: 0  
Broken: 0  
Disabled: 0

Block Size: 1 Mb

Recent Tasks Name, Target or Status contains: Clear

Name	Target	Status	Details	Initiated by	vCenter Server	Requested Start Time
Mask XtremIO Snapshot	Mgmt-Infra01	Completed	Mask XtremIO Snap...	VSPHERE.LO...	vdi-sql01.vdi.xtremio	7/6/2015 4:21:38 PM
Mount XtremIO Snapshot	Mgmt-Infra01	Completed	Mount XtremIO Sna...	VSPHERE.LO...	vdi-sql01.vdi.xtremio	7/6/2015 4:21:28 PM
Take XtremIO Datastore Snapshot	Mgmt-Infra01	Completed		VSPHERE.LO...	vdi-sql01.vdi.xtremio	7/6/2015 4:17:46 PM
Take Datastore Snapshot	Mgmt-Infra01	Completed		VSPHERE.LO...	vdi-sql01.vdi.xtremio	7/6/2015 4:16:57 PM
Relocate virtual machine	vdi-sql01	Completed		VDI\Administ...	vdi-sql01.vdi.xtremio	7/6/2015 4:12:11 PM
Take Datastore Snapshot Condition Check	Mgmt-Infra01	Completed		VSPHERE.LO...	vdi-sql01.vdi.xtremio	7/6/2015 4:16:57 PM
Rescan all HBAs	scvdi02.vdi.xtremio	Completed		VSPHERE.LO...	vdi-sql01.vdi.xtremio	7/6/2015 4:22:10 PM
Resignature unresolved VMFS volume	scvdi02.vdi.xtremio	Completed		VSPHERE.LO...	vdi-sql01.vdi.xtremio	7/6/2015 4:22:12 PM

**D**  **LEMC**