# Virtual Storage Integrator

### With XtremIO



# XtremIO

### **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、無償ソフトフェア 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





### **Easy Setup and Configuration**

# OVAイメージを取得 support.emc.comからダウンロード可 OVAイメージの展開 VSI Plug-inのレジスター VSI/こvCenterのログイン情報を登録 VSI/こXtremIO(XMS)のログイン情報を登録

vSphereにVSIを登録

#### ※仮想マシーンの必要要件

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。



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## 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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Home ▷ ♥ ♥ ♥ ♥ ♥ Ø vdi-sql01.vdi.xtremio	Getting What	Dashboard Configuration	) ( ory Alerts & Events R	eports Adminis	tration Si	? upport			(trem IO	New (2) Acknowl re vCenter Server (vdi-sql0 r Server Health Alarm
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A Home 👂 🚮 Inventory 👂 👘 Hosts and Clusters

🚰 🗸 Search Inventory Q B @ 肥 🖃 🏥 Source\_Cluster scvdi02.vdi.xtremio VMware ESXi, 6.0.0, 2615704 scvdi01.vdi.xtre Summary Virtual Machines Performance Configuration Tasks & Events Alarms Permissions Maps scvdi02.vdi.xtrei 732ctx 832ctx Hardware View: Datastores Devices analyzer01 Datastores Refresh Delete Add Storage... Rescan All... Processors 🛅 appm01 Memory appm02 Storage DS-001 DS-002 🤣 Normal EMC Disk - DS-00... SSD 1,023.75 G 1,022.80 G VMFS5 7/6/2015 4:34:09 PM Enabled Disabled Supported appsync02 Networking 🤣 Normal EMC Disk - DS-00... SSD 1,023.75 G 1,022.80 G VMFS5 7/6/2015 4:34:09 PM Enabled Disabled Supported BrightonTempla Storage Adapters 🛅 centos01 drvc01 Network Adapters scvdi02\_local-DS 📀 Normal Local SEAGATE D... Non-SSD 830.75 GB 829.66 GB VMFS5 7/6/2015 4:33:49 PM Enabled Disabled Unknown hauncher-01 👔 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 Advanced Settings auncher-02 Power Management auncher-03 pvs01 Software pvs02 pvs03 = Licensed Features pvs04 Time Configuration RH62 DNS and Routing 🛅 share-01 Authentication Services hare-02 Power Management 🛅 share-03 Datastore Details 🚡 share-04 Virtual Machine Startup/Shutdown Properties.. 🛅 share-05 Virtual Machine Swapfile Location DS-001 1023.75 GB Capacity 🛅 share-06 Security Profile Location: /vmfs/volumes/559b1061-39f1d439-b9ec-0025b5ffee7f 978.00 MB 📕 Used hare-07 Hardware Acceleration: Supported Host Cache Configuration 🐴 share-08 1022.80 GB 📃 Free System Resource Reservation hare-09 🛅 share-10 Agent VM Settings

🚡 studio01					
🚡 studio02	Path Selection	Properties	Extents	Storage I/O Control	
👜 vCOPS	Round Robin (VM	Volume Label: DS-001	EMC Disk - DS-001_2015-07 1024.00 GB	Disabled	
y vdi-ad01	Paths	Datastore Name: DS-001	Total Formatted Capacity 1023.75 GB		
vdi-conn02	Total: 4	Formatting			
🚯 vdi-sql01	Broken: 0	Hile System: VMFS 5.61 Block Size: 1 MB			
🐞 webproxy01 🧹	Disabled: 0	block bizer 111b			

#### Recent Tasks

Target	Status	\   Details	Initiated by	vCenter Server	Requested Start 🗛
Source_Cluster	🕲 Completed	Update Lun Names	VSPHERE.LO	😥 vdi-sql01.vdi.xtremio	7/6/2015 4:34:09
Source_Cluster	Completed	Provision EMC Datas	VSPHERE.LO	👩 vdi-sql01.vdi.xtremio	7/6/2015 4:33:22
Source_Cluster	S Completed	Parameter Validation	VSPHERE.LO	👩 vdi-sql01.vdi.xtremio	7/6/2015 4:33:41
Source_Cluster	🕲 Completed	Create Lun	VSPHERE.LO	👩 vdi-sql01.vdi.xbremio	7/6/2015 4:33:41 ≡
scvdi01.vdi.xtremio	Completed		VSPHERE.LO	👩 vdi-sql01.vdi.xtremio	7/6/2015 4:33:50
scvdi01.vdi.xtremio	🕲 Completed		VSPHERE.LO	👩 vdi-sql01.vdi.xtremio	7/6/2015 4:33:51
scvdi02.vdi.xtremio	🕲 Completed		System	👩 vdi-sql01.vdi.xtremio	7/6/2015 4:33:55
scvdi01.vdi.xtremio	🕲 Completed		VSPHERE.LO	👩 vdi-sql01.vdi.xtremio	7/6/2015 4:33:55
scvdi02.vdi.xtremio	🕲 Completed		System	👩 vdi-sql01.vdi.xtremio	7/6/2015 4:33:58
scvdi02.vdi.xtremio	Completed		VSPHERE.LO	👩 vdi-sql01.vdi.xtremio	7/6/2015 4:34:01 🗸
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	Target       Image: Source_Cluster       Image: Source_Cluster	Target     Status       Image: Source_Cluster     Image: Completed       Image: Source_Cluster     Image: Cluster       Image: Source_Cluster     Image: Cluster  <	Target       Staus       Details         Image:       Source_Cluster       Image:       Completed       Update Lun Names         Image:       Source_Cluster       Image:       Completed       Provision EMC Datas.         Image:       Source_Cluster       Completed       Provision EMC Datas.         Image:       Source_Cluster       Completed       Provision EMC Datas.         Image:       Source_Cluster       Completed       Create Lun         Image:       scvd101.vd1xternio       Completed       Create Lun         Image:       scvd101.vd1xternio       Completed       Image:         Image:       scvd102.vd1xternio       Completed       Image:	Target       Staus       Details       Initiated by         Image:       Source_Cluster       © Completed       Update Lun Names       VSPHERE.LO         Image:       Source_Cluster       © Completed       Provision EMC Datass.       VSPHERE.LO         Image:       Source_Cluster       © Completed       Provision EMC Datass.       VSPHERE.LO         Image:       Source_Cluster       © Completed       Create Lun       VSPHERE.LO         Image:       Source_Cluster       © Completed       VSPHERE.LO       VSPHERE.LO         Image:       Source_Cluster       © Completed       VSPHERE.LO       VSPHERE.LO         Image:       Sourdi01.vd/ixternio       © Completed       VSPHERE.LO       VSPHERE.LO         Image:       Sourdi01.vd/ixternio       © Completed       Source_Cluster       VSPHERE.LO         Image:       Sourdi01.vd/ixternio       © Completed       Source_Cluster       System         Image:       Source_Cluster       © Completed       System       System         Image:       Source_Cluster       © Completed       System       System         Image:       Source_Cluster       © Completed       System       System         Image:       Source_Cluster <td>Target       Staus       Details       Initiated by       VCenter Server         Image:       Source_Cluster       Completed       Update Lun Names       VSPHERELO       Vdi-sql01.vdi.strenio         Image:       Source_Cluster       Completed       Provision EMC Datas.       VSPHERELO       Vdi-sql01.vdi.strenio         Image:       Source_Cluster       Completed       Provision EMC Datas.       VSPHERELO       Vdi-sql01.vdi.strenio         Image:       Source_Cluster       Completed       Provision EMC Datas.       VSPHERELO       Vdi-sql01.vdi.strenio         Image:       Source_Cluster       Completed       Vdi-sql01.vdi.strenio       Vdi-sql01.vdi.strenio         Image:       Source_Cluster       Completed       Vdi-sql01.vdi.strenio       Vdi-sql01.vdi.strenio         Image:       Source_Cluster       Completed       Vdi-sql01.vdi.strenio       Vdi-sql01.vdi.strenio         Image:       Source_Cluster       Source_Cluster       Vdi-sql01.vdi</td>	Target       Staus       Details       Initiated by       VCenter Server         Image:       Source_Cluster       Completed       Update Lun Names       VSPHERELO       Vdi-sql01.vdi.strenio         Image:       Source_Cluster       Completed       Provision EMC Datas.       VSPHERELO       Vdi-sql01.vdi.strenio         Image:       Source_Cluster       Completed       Provision EMC Datas.       VSPHERELO       Vdi-sql01.vdi.strenio         Image:       Source_Cluster       Completed       Provision EMC Datas.       VSPHERELO       Vdi-sql01.vdi.strenio         Image:       Source_Cluster       Completed       Vdi-sql01.vdi.strenio       Vdi-sql01.vdi.strenio         Image:       Source_Cluster       Completed       Vdi-sql01.vdi.strenio       Vdi-sql01.vdi.strenio         Image:       Source_Cluster       Completed       Vdi-sql01.vdi.strenio       Vdi-sql01.vdi.strenio         Image:       Source_Cluster       Source_Cluster       Vdi-sql01.vdi

Tasks 🞯 Alarms

License Period: 545 days remaining VDI\Administrator

Name, Target or Status contains: -

Clear ×

## 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。



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vmware <sup>®</sup> vSphere Web Clien	it <del>≜</del> ≣							Updated at 4:19 PM	ひ I Administrate	br@VSPHERE.LOCAL	👻 i Help -	I 🔍 Search 👻
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Take Datastore Snapshot	Mgmt-Infra01	<ul> <li>Completed</li> <li>Completed</li> </ul>	VSPHERE.LOCALII	12 ms	7/6/2015 4:16:57 PM	7/6/2015 4:18:02 PM	vdi-sql01.vdi.xtremio					
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<b>m</b> ware <sup>,</sup> vSphere Web Cli	ent <b>≜</b> ≘							idated at 4:19 PM 🛛 🏥			C Search 🔹
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(* Home         ↓         ↓           ↓         (*)         ↓         ↓           ↓         (*)         (*)         ↓         ↓           ↓         (*)         (*)         ↓         ↓         ↓           ↓         (*)         (*)         ↓         ↓         ↓         ↓           ↓         (*)         ↓ <td>Cetting Started Summ     T     U      V</td> <td>mary         Monitor         Manage           vs-oot        </td> <td>e Related Objects 9b1061-39f1d439-b9ec-0025b5ffee7f/ 05-001 - Extend Storage 2 Ready to Complete</td> <td>Storage System Det Datastore: Storage System Ty Storage System Na Capacity Details Additional Device C</td> <td>tails DS-001 pe: XtremIO ame: XIO001502 Capacity:</td> <td>200537 2 TB</td> <td>• (Max: 63.00 TB)</td> <td>×</td> <td>TORAGE JSED: 979.00 MB</td> <td>PREE: 1.022.79 GB GAPACITY: 1.023.75 Refresh Category This list is empty.</td> <td>All (2) New (2) Acknowl</td>	Cetting Started Summ     T     U      V	mary         Monitor         Manage           vs-oot	e Related Objects 9b1061-39f1d439-b9ec-0025b5ffee7f/ 05-001 - Extend Storage 2 Ready to Complete	Storage System Det Datastore: Storage System Ty Storage System Na Capacity Details Additional Device C	tails DS-001 pe: XtremIO ame: XIO001502 Capacity:	200537 2 TB	• (Max: 63.00 TB)	×	TORAGE JSED: 979.00 MB	PREE: 1.022.79 GB GAPACITY: 1.023.75 Refresh Category This list is empty.	All (2) New (2) Acknowl
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Task Name emc.prov.task.emcUiTask.TakeXtre emc.prov.task.emcUiTask.TakeDat Take Datastore Snapshot	Target Mgmt-Infra01 Mgmt-Infra01 Mgmt-Infra01	Status Completed Completed Completed	Initiator VSPHERE LOCALIN VSPHERE LOCALIN VSPHERE LOCALIN	Dueued For         Stat           8 ms         7/6           6 ms         7/6           12 ms         7/6	rt Time 5/2015 4:17:46 PM 5/2015 4:16:57 PM 5/2015 4:16:57 PM	Completion Time 7/6/2015 4:18:02 PM 7/6/2015 4:17:46 PM 7/6/2015 4:18:02 PM	Server vdi-sql01.vdi.xtremio vdi-sql01.vdi.xtremio				
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mware <sup>,</sup> vSphere Web Cl	ient <b>n</b> ≘						Updated at 4:19 PM 👔				I Q Search 🔹
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♥         ●	8	DS-001 Type: VMFS5 URL: ds:///vmfs/volumes/54	59b1061-39f1d439-b9ec-0025b5ffee7f/					STORAGE USED: 979.00 MB	FREE: 1,022.79 GE CAPACITY: 1,023.75 Refres	3 🔺 ;h	VMware vCenter Server (vdi-sqi0 vCenter Server Health Alarm  scuti 17.vdi.xtremio Network uplink redundancy lost
DS-002			DS-001 - Extend Storage				(	×			
<ul> <li>sodi01_local-DS</li> <li>sodi01_local-DS</li> <li>sodi03_local-DS</li> <li>sodi04_local-DS</li> <li>sodi04_local-DS</li> <li>sodi06_local-DS</li> <li>sodi06_local-DS</li> <li>sodi00_local-DS</li> <li>sodi00_local-DS</li> <li>sodi00_local-DS</li> <li>sodi00_local-DS</li> <li>sodi010_local-DS</li> <li>sodi10_local-DS</li> <li>sodi11_local-DS</li> <li>sodi12_local-DS</li> <li>sodi21_local-DS</li> <li>sodi22_local-DS</li> <li>sodi22_local-DS</li> <li>sodi22_local-DS</li> <li>sodi22_local-DS</li> </ul>	Details     Location     Type     Hosts     Virtual machines     VM templates      Storage System     Storage Device	ds:///vmfs/volumes/559 VMFS5 2 0 0	<ul> <li>1 Extend Storage</li> <li>2 Ready to Complete</li> </ul>	Storage Extensio Datastore Storage System Storage System Additional Devic	n Summary Type DS- Type Xire Name XiO te Capacity 2.00	001 mIO 00150200537 ) TB		Tags     Assigned Tag	Category This list is empty.		Work In Progress
😨 Recent Tasks							Back Next Finish Cancel	J			
Task Name	Target	Status	Initiator	Queued For	Start Time	Completion Time	Server				
emc.prov.task.emcUiTask.TakeXtre	Mgmt-Infra01	<ul> <li>Completed</li> </ul>	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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🛐 🔯 Home 🕨 🚮 Inventory 🕨 🛐 Hosts and Clusters

Search Inventory

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anaiyzeru 1 appm01 appm02 appsync02 BrightonTempla	Processors Memory Storage Networking	xbricksc102		Ø	Volume	Cre	ate Volume 🏼 🛚	Create Snapshot	🔁 Create/Modify	<b>r Mapping 🛯 🐚</b> Ad	dd Volume to Consister	ncy Group 👼 Create	Snapshot Scheduler  🦑 🟹	- bd Storage
centos01 drvc01 launcher-01 launcher-02	Network Ada Advanced Se Power Mana	Filter Tags Volumes (4 total) Consistency Grou	ps (0 total)	٩	Filter Volumes Name SDS-001_2015-07-06_23-	Writab     Read-only     33-40-249	le Read-o Mapped	NAA Identifier 514f0c5b61a00	d Vnmapped [ Space in Use (VSG) 11.867MB	Volume Volume Size	Logical Block Size	Alignment Offset	Tags	
auncher-03 ivs01 ivs02 ivs03 ≡	Software Licensed Fea	Snapshot Sets (1 to Initiator Groups (4 Initiators (88 total)	otal) 14 total) 1		DS-002_2015-07-06_23- Mgmt-Infra01 Mgmt-Infra01.snapshc	33-45-337 t.143622	* * -	514f0c5b61a00 514f0c5b61a00	11.867MB <sup>1</sup> 756.374GB 756.374GB	\$ 1TB 5TB 5TB	512 512 512	0 0 0		
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share-08 share-09 share-10 Solutions Integr	Host Cache G System Resc Agent VM Se Advanced Se				<	inapshot Groups 🐚 C	onsistency Gro	ups 💼 Snapshot S	III ets 👪 Schedulers ,	Alerts			>	
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A Home 👂 🚮 Inventory 👂 🎁 Hosts and Clusters Search Inventory

2ctx	Hardware	View: Datastores Devices											
/zer01	Processors	Datastores									Refresh Delete	Add Storage	Rescan A
01	Memory	Identification	<ul> <li>Status</li> </ul>	Device	Drive Type	Capacity	Free Type	Last Update	Alarm Actions	Storage I/O Control	Hardware Acceleration		
,	Storage	DS-001	🤣 Normal	EMC Disk - DS-00	SSD	N3.00 TB	3.00 TB VMFS5	7/6/2015 4:36:59 PM	Enabled	Disabled	Supported		
pla	Networking	DS-002	🤣 Normal	EMC Disk - DS-00	SSD	1,023.75 G	1,022.80 G VMFS5	7/6/2015 4:36:59 PM	Enabled	Disabled	Supported		
	Storage Adapters	Mgmt-Infra01	🤣 Normal	XtremIO Fibre Ch	SSD	5.00 TB	4.04 TB VMFS5	7/6/2015 4:36:47 PM	Enabled	Disabled	Supported		
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	Power Management												
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	Virtual Machine Startup/Shutdown Virtual Machine Swapfile Location	Datastore Details D5-001 Location: /umfs/volumes/559h1061-39f	d439-b9ec-0025b5ffee7	3.00 TB C	apacity								Propertie
	Virtual Machine Startup/Shutdown Virtual Machine Swapfile Location Security Profile	Datastore Details DS-001 Location: /vmfs/volumes/559b1061-39f: Hardware Acceleration: Supported	d439-b9ec-0025b5ffee7	3.00 TB C 989.00 MB	used								Propertie
	Virtual Machine Startup/Shutdown Virtual Machine Swapfile Location Security Profile Host Cache Configuration	Datastore Details D5-001 Location: /vmfs/volumes/559b1061-39f: Hardware Acceleration: Supported	d439-b9ec-0025b5ffee7	3.00 TB C 989.00 MB 3.00 TB	Used Free	)							Propertie
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	Virtual Machine Startup/Shutdown Virtual Machine Swapfile Location Security Profile Host Cache Configuration System Resource Reservation Agent VM Settings	Datastore Details D5-001 Location: /vmfs/volumes/559b1061-39f; Hardware Acceleration: Supported	d439-b9ec-0025b5ffee7	3.00 TB C 989.00 MB 3.00 TB	Used Free								Properte
Integr	Virtual Machine Startup/Shutdown Virtual Machine Swapfile Location Security Profile Host Cache Configuration System Resource Reservation Agent VM Settings Advanced Settings	Datastore Details D5-001 Location: /vmfs/volumes/559b1061-39f: Hardware Acceleration: Supported	d439-b9ec-0025b5ffee7	3.00 TB C 989.00 MB 3.00 TB	Used Free	)							Properte
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tegr	Virtual Machine Startup/Shutdown Virtual Machine Swapfile Location Security Profile Host Cache Configuration System Resource Reservation Agent VM Settings Advanced Settings	Patastore Details           D5-001           Location:         /vmfs/volumes/559b1061-39f:           Hardware Acceleration:         Supported           Path Selection         Properties           Round Robin (VM         Properties           Volume Label:         Volume Label:	d439-b9ec-0025b5ffee7 Exte DS-001 EM:	3.00 TB C 989.00 MB 3.00 TB 5.00 TB 5.	upadiy Used Free 7 3.00 TB	Storage I, Disabled	/O Control						Propertie
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tegr	Virtual Machine Startup/Shutdown Virtual Machine Swapfile Location Security Profile Host Cache Configuration System Resource Reservation Agent VM Settings Advanced Settings	Patastore Details       D5-001       Location: /vmfs/volumes/559b1061-39f:       Hardware Acceleration: Supported       Path Selection       Round Robin (VM       Properties       Volume Label:       Datastore Name:       Tubl:     Formatting	d439-b9ec-0025b5ffee7 Exte DS-001 EMI DS-001 Tot	3.00 TB C 989.00 MB 3.00 TB 3.00 TB 15 Disk - DS-001_2015-0 al Formatted Capacity	Used Free 7 3.00 TB 3.00 TB	Storage I, Disabled	/0 Control						Propertie
are-04 are-05 are-05 are-06 are-07 are-08 are-09 are-10 ar	Virtual Machine Startup/Shutdown Virtual Machine Swapfile Location Security Profile Host Cache Configuration System Resource Reservation Agent VM Settings Advanced Settings	Datastore Details           D5-001           Location:         /vmfs/volumes/559b1061-39f:           Hardware Acceleration:         Supported           Path Selection         Round Robin (VM           Properties         Volume Label:           Datastore Name:         Pathselection           Paths         Formatting           Total:         4	d439-b9ec-0025b5ffee7	. 3.00 TB C 989.00 MB 3.00 TB	Used Free 7 3.00 TB 3.00 TB	Storage I, Disabled	/O Control						r

#### Recent Tasks

Recent Tasks			Name, Target or Status contains: • C							
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 SCSILUN display name	scvdi02.vdi.xtremio	🕲 Completed		VSPHERE.LO	👩 vdi-sql01.vdi.xtremio	7/6/2015 4:34:01				
Update SCSILUN display name	scvdi01.vdi.xtremio	🕲 Completed		VSPHERE.LO	👩 vdi-sql01.vdi.xbremio	7/6/2015 4:34:01				
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License Period: 545 days remaining VDI\Administrator

Tasks 🞯 Alarms

Q

### 未使用スペース開放

### VSI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



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mware° vSphere Web Client _ त∎				Ŭ   Administrator@VSPHERE.LOCAL +   Help	- I 🔍 Search -
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Home Sum	mary Monitor Manage Related Objects				All (2) New (2) Acknowledg
♥ vdi-sql01.vdi.xtremio       ▼ @ vdi-sql01.vdi.xtremio       ▼ Moto-Storage       ● vDI-Storage       ● mcc=001       ● mcc=001       ● mcc=001       ● Browse Files	mcs-001 Type: VMFS5 JRL: ds:///vmfs/volumes/559313dd-89804bde-8048-0025b5ffe	ed1/		STORAGE FREE: 3.48 TB USED: 528 39 GB CAPACITY: 4.00 TB Refresh	VI.lware vCenter Server (vdi-sq vCenter Server Health Alarm     Scycdi17 vdi.xfremio Network uplink redundancy lost     Work In Progress
mc P Register VM					
mc Refresh Capacity Information				□ ▼ Tags	
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🗐 mc 🖾 Manage Storage Providers					
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<b>/m</b> ware <sup>,</sup> vSphere Web Clie	ent <b>n</b> ≘					ひ I Administrator@VSPH		Q Search	
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Home     €	Cetting Started Summary Monitor Man mcs-001 Type: VMFSS URL: ds:///vmfs/volumes	age Related Objects /559313dd-89804bde-8048-0025b5ffeedf/				STORAGE USED: 528.39 GB	FREE: 3.48 TB CAPACITY: 4.00 TB Refresh	Ail (2)         New (2)         Acknowled           ▲         VMware vCenter Server (vdi vCenter Server Health Alarn           ◆         sovdi17.vdi.xtremio Network uplink redundancy           ✓         Work In Progress	lg ↑ -sq 1 :: lost ▼
mcs-003         mcs-004         mcs-005         mcs-007         mcs-008         mcs-010         mcs-010         mcs-011         mcs-012         mcs-013         mcs-014         mcs-015         mcs-016         mcs-017         mcs-018         MgmL-Infra00         scvdi01_local-DS         scvdi04_local-DS         scvdi05_local-DS         scvdi06_local-DS         scvdi06_local-DS         scvdi06_local-DS         scvdi06_local-DS         scvdi08_local-DS         scvdi08_local-DS	Details     Storage System     Storage Device	Reclam Unused Storage	Storage System Details Datastore: Storage System Type: Storage System Name: Host Details Hostname/IP: Host Username: Host Password: Reclamation Schedule Schedule:	rncs-001 XtremIO Xi000150200115 scvdi16.vdi.xtremio root Run Now Run Now Daily Weekly Monthly		Asigned Tag	Category This list is empty. ::		
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mcs-009     mcs-010     mcs-011     mcs-012     mcs-013     mcs-014				Datastore: Storage System T Storage System f Host Details	Ali datasto Type: XtremiO Name: N/A	rres under VDI-Storage								
mcs-015     mcs-016     mcs-017     mcs-018     MgmI-018     MgmI-010		Assi		Hostname/IP: Host Username: Host Password:	N/A root	**								
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Physical Capacity	7.587TB
277.973GB (4%) used	7.316TB (96%) free

#### Inventory

xbrick73 Storage

X-Bricks	1	0
Storage Controllers	2	0
SSDs	25	0



#### EMC<sup>2</sup> XtremIO



(?)

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0

0 0

25

Dashboard

X-Bricks	1
Storage Controllers	2
SSDs	25





## 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。



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vmware <sup>,</sup> vSphere Web C	Client <b>≜</b> ≘							Updated at 3:3	7PM ひ I Adn	ninistrator@VSPHERI	Elocal - I	Help - I 🔍 Sea	rch	-
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	The Storage Suster			Virtual	Ø	Volume	📒 Crea	te Volume 📲	Create Snapshot	🔁 Create/Modify	Mapping 🐚 Ac	d Volume to Consisten	y Group 🛛 👪 Create 🧐	Snapsh
R	Storage System     Name	NIO00150200537		Filter Tags	0	Filter Volumes	Q Vritabl	e 🗌 Read-o	nly 🔽 Mappe	d 🔽 Unmapped 🗗	Volume 🔽 Sr	apshot		
	Model	XtremIO		Volumes (2 total)     VSISnapshots     Sistency Groups (0 total     Snapshot Sets (1 total)     Minitator Groups (44 total)     Initiator Groups (44 total)	ŋ	Name Mgmt-Infra01 Mgmt-Infra01 coanchet 142622	Read-only	Mapped ✓	NAA Identifier 514f0c5b61a00	Space in Use (VSG) 756.152GB 756.152GB	Volume Size STB STR	Logical Block Size 512 512	Alignment Offset 0 0	Tag
	T Storage Device			Schedulers (0 total)										
	Storage Device		f8e201ce41f34d											
	Device Name		Mgmt-Infra01											
	NAA Name		514f0c5b61a00	d										
	Initiator Group(s)		esx_scvdi01, es											
	Initiator Group Type		FC			<				ш				
	Small IO Alerts		Disabled			😹 Mapping 📷 Volume Snapshot	t Groups  🌘 Co	nsistency Grou	ups 💼 Snapshot :	Sets 👪 Schedulers 複	🚹 Alerts			
	Unaligned IO Alerts	1	Disabled								LUN Mapping I	Ds		
	VAAI TP Alerts		Disabled			Volumes / Initiator Groups	esx_scvdi01	esx_scv	di02					
	Logic Block Size		512 bytes			Nigmt-Infraul	2	2						
	Alignment Offset		0											
	Total Capacity		5 00 TB											
	Logical capacity co	nsumed by XtremIO 🛛 🕅	756.14 GB											
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Task Name	Target	Status	Init											
Refresh storage information	🗐 Mgmt-Infra00	<ul> <li>Completed</li> </ul>	VS	3		6.1 T. 111/1								
Resignature unresolved VMFS volu	scvdi04.vdi.xtremio	<ul> <li>Completed</li> </ul>	VS	3		Selected 1 Volume mapped to 2 IG	jS							
Mount XtremIO Snapshot	mcs-002	<ul> <li>Completed</li> </ul>	VS	3		2 Volumes displaye 1 selected Filters : Writable	ed (2 total)							
				xbricksc102 - Active					XMS: Jul 6, 1	2015 10:05:15 PM IDT	Local: Jul 6, 2015	4:15:52 PM PDT	tech	
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### 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、"VSISnapshots"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 ヘコピーすることも可能。 DCCLLFN/C

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<b>m</b> ware <sup>,</sup> vSphere Web Cli	ent nt≘						Updated at 3:37 PM 🚺   Adi	ninistrator@VSPHERE.LOCAL -	l Help -	I 🔍 Search 🝷
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📋 Hosts 💣 Register VM		0								scvdi17.vdi.xtremio
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Increase Datastore	capacity	n								
Unmount Datastore		XIO00150200537								
Maintenance Mode	•	XtremIO								
Move Out of Datasto	e Cluster									
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Configure Storage I/	O Control						powered by EMC			
Upgrade to VMFS-5	ce	R.								
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Move To Rename		Mgmt-Infra(	1							
Tags	•	514f0c5b6*	a00006							
Add Permission		esx_scvdi0	1, esx_scvdi02							
Alarms	• 'pe	FC								
🛃 Delete Datastore		Disabled								
All EMC VSI Plugin A	ctions +	Extend Storage								
All vRealize Orchestr	ator plugin Actions 🕨	Take Snapshot d								
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Refresh storage information	Mgmt-Infra00	<ul> <li>Completed</li> </ul>	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	<ul> <li>Completed</li> </ul>	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	<ul> <li>Completed</li> </ul>	VSPHERE.LOCAL\\	12 ms	7/6/2015 3:34:35 PM	7/6/2015 3:36:32 PM	vdi-sql01.vdi.xtremio			
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	Storage Device Device ID Device Name NAA Name Initiator Group(s) Initiator Group Type		18e201ce41134de0837c210 Mgmt-Infra01 514f0c5b61a00006 esx_scvdi01, esx_scvdi02 FC	Take Snapshot	tted.		*	powered by EMC		₩Work in Progress ₩
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