

# Hedvig UI Installer User Guide

# Table of Contents

Introduction to the Hedvig UI Installer	5
Requirements for the Hedvig UI Installer	5
Architecture for the Hedvig UI Installer	5
Installing a Rack Unaware (Agnostic) Cluster	6
Installing a Data Center Aware Cluster	12
Installing a Dual Data Center Cluster	18
Installing an S3-Compatible Object Storage Cluster	24
Installing a Regex-based Storage Cluster	
Cluster Overview	34
Adding an HA Storage Proxy	35
Adding a Cluster Node	36
Fetching Cluster Logs	37
Logging in to a Cluster	
Managing Clusters	
Log View	40
Progress View	41
Successful Install	43

# List of Figures

Figure 1: Installing a Rack Unaware Cluster - Screen 1	6
Figure 2: Installing a Rack Unaware Cluster - Screen 2	7
Figure 3: Installing a Rack Unaware Cluster - Screen 3	7
Figure 4: Installing a Rack Unaware Cluster - Screen 4	8
Figure 5: Installing a Rack Unaware Cluster - Screen 5	8
Figure 6: Installing a Rack Unaware Cluster - Screen 6	9
Figure 7: Installing a Rack Unaware Cluster - Screen 7	9
Figure 8: Installing a Rack Unaware Cluster - Screen 8	10
Figure 9: Installing a Rack Unaware Cluster - Screen 9	10
Figure 10: Installing a Rack Unaware Cluster - Screen 10	11
Figure 11: Installing a Data Center Aware Cluster - Screen 1	12
Figure 12: Installing a Data Center Aware Cluster - Screen 2	13
Figure 13: Installing a Data Center Aware Cluster - Screen 3	13
Figure 14: Installing a Data Center Aware Cluster - Screen 4	14
Figure 15: Installing a Data Center Aware Cluster - Screen 5	14
Figure 16: Installing a Data Center Aware Cluster - Screen 6	15
Figure 17: Installing a Data Center Aware Cluster - Screen 7	15
Figure 18: Installing a Data Center Aware Cluster - Screen 8	16
Figure 19: Installing a Data Center Aware Cluster - Screen 9	16
Figure 20: Installing a Data Center Aware Cluster - Screen 10	17
Figure 21: Installing a Dual Data Center Cluster - Screen 1	18
Figure 22: Installing a Dual Data Center Cluster - Screen 2	19
Figure 23: Installing a Dual Data Center Cluster - Screen 3	19
Figure 24: Installing a Dual Data Center Cluster - Screen 4	20
Figure 25: Installing a Dual Data Center Cluster - Screen 5	20
Figure 26: Installing a Dual Data Center Cluster - Screen 6	21
Figure 27: Installing a Dual Data Center Cluster - Screen 7	21
Figure 28: Installing a Dual Data Center Cluster - Screen 8	22
Figure 29: Installing a Dual Data Center Cluster - Screen 9	22
Figure 30: Installing a Dual Data Center Cluster - Screen 10	23
Figure 31: Installing an S3-Compatible Object Storage Cluster - Screen 1	24
Figure 32: Installing an S3-Compatible Object Storage Cluster - Screen 2	25
Figure 33: Installing an S3-Compatible Object Storage Cluster - Screen 3	25
Figure 34: Installing an S3-Compatible Object Storage Cluster - Screen 4	26
Figure 35: Installing an S3-Compatible Object Storage Cluster - Screen 5	26
Figure 36: Installing an S3-Compatible Object Storage Cluster - Screen 6	27
Figure 37: Installing an S3-Compatible Object Storage Cluster - Screen 7	27
Figure 38: Installing an S3-Compatible Object Storage Cluster - Screen 8	28
Figure 39: Installing an S3-Compatible Object Storage Cluster - Screen 9	28
Figure 40: Installing an S3-Compatible Object Storage Cluster - Screen 10	29
Figure 41: Installing an S3-Compatible Object Storage Cluster - Screen 11	29

Figure 42:	Installing a Regex-based Storage Cluster - Screen 1	30
Figure 43:	Installing a Regex-based Storage Cluster - Screen 2	31
Figure 44:	Installing a Regex-based Storage Cluster - Screen 3	31
Figure 45:	Installing a Regex-based Storage Cluster - Screen 4	32
Figure 46:	Installing a Regex-based Storage Cluster - Screen 5	32
Figure 47:	Installing a Regex-based Storage Cluster - Screen 6	33
Figure 48:	Cluster Overview	34
Figure 49:	Adding an HA Storage Proxy - unfilled screen	35
Figure 50:	Adding an HA Storage Proxy - filled screen	35
Figure 51:	Adding a Cluster Node - unfilled screen	36
Figure 52:	Adding a Cluster Node - filled screen	36
Figure 53:	Fetching Cluster Logs	37
Figure 54:	Logging in to a Cluster - unfilled screen	38
Figure 55:	Logging in to a Cluster - filled screen	38
Figure 56:	Managing Clusters	39
Figure 57:	Log View	40
Figure 58:	Progress View	41
Figure 59:	Progress View with warnings	41
Figure 60:	Progress View with warnings expanded	42
Figure 61:	Successful install with warnings	43
Figure 62:	Successful install with warnings expanded	43

#### **Introduction to the Hedvig UI Installer**

Hedvig now has a user interface (UI)-based installation process.

- The Hedvig UI Installer is an enhancement to the previous command line-based installer.
- This tool improves the ease of use for installation of the Hedvig product.
- This user interface-based installer can be used to replace or augment command line-based installations.

#### **Requirements for the Hedvig UI Installer**

- The UI installer is bundled with the Hedvig product.
- It runs on the deployer node, which is a management VM available from Hedvig.
- It is deployed and available with version 4.1 and above, and since it runs only on the deployer node, it is bundled with the Hedvig release.

#### Architecture for the Hedvig UI Installer

- The UI Installer runs as a web service on the deployer node.
- It is self-contained and requires port 80 access to the deployer.
- It is installed as a part of the Hedvig packages, and upgrades are handled by the installation, itself.

### Installing a Rack Unaware (Agnostic) Cluster

The following screens are displayed when a *Rack Unaware* cluster (also referred to as an *Agnostic* cluster) is installed. This is the simplest of setups, because it does not require any network topology to be defined for the storage nodes and proxies.

The replication factor is automatically set as 3 (default). Name resolution is supported via DNS or via /etc/hosts. In either case, the storage node name must be set to a fully qualified domain name (FQDN). Storage and proxy names do not have to adhere to any naming convention in this particular setup.

Install Hedvig	Manage Clusters	root 👻
Install Hedvig	Install Hedvig 0	
Basic settings	This wizard will help you configure your cluster installation in a few steps. Here's the overview.	
Cluster nodes	Basic settings	
Storage proxies	Cluster name	
Final settings	Replication policy     Data center settings	
	Cluster nodes	
	Provide host names for your cluster nodes. If you don't have DNS, you'll also need to provide	
	corresponding IP addresses.	
	Storage proxies	
	Add HA (High Availability) and/or non-HA proxies	
	Final settings ()	
	Email settings	
	Timezone/NTP settings	
	Networking settings	
	Already have an Ansible configuration file? Upload it here	
	Start with basic settings	

Figure 1: Installing a Rack Unaware Cluster - Screen 1







Figure 3: Installing a Rack Unaware Cluster - Screen 3







Figure 5: Installing a Rack Unaware Cluster - Screen 5

Install Hedvig	Manage Clust	ers	root 🕶
Install Hedvig	S	torage proxies	
Basic settings	~	Add storage proxy	
Cluster nodes	~	← Cluster nodes	Final settings ->
Storage proxies			
Final settings			



Install Hedvig	Manage (	Clusters			root 🕶
Install Hedvig Basic settings Cluster nodes	* *	Storage p Add storag Non-HA s	proxies e proxy storage proxies ①		
Storage proxies	~	#	Host	Protocol support	Cache distribution
Final settings		1. 🕑 🗑	arescvm1.hedviginc.com	NFS/iSCSI	100% NFS vs 0% iSCSI

Figure 7: Installing a Rack Unaware Cluster - Screen 7

Install Hedvig	Manage (	Clusters				root <del>-</del>
Install Hedvig Basic settings Cluster nodes Storage provies	* * *	Email settings ① Send emails from ① unknown@local.lab SMTP host ①	Send emai unknown Email inter	ls to 🚯 @local.lab val 🚯		
Final settings		unknown.local.lab Time settings Time zone ① US/Pacific		hours		
		Use NTP <b>1</b> Storage settings Storage Interface optional <b>1</b>				
		← Storage proxies		Subr	nit <del>&gt;</del>	



Install Hedvig	Manage (	Clusters				root 🕶
Install Hedvig Basic settings Cluster nodes	* *	Email settings ① Send emails from ① unknown@local.lab	Send emai unknowr	ls to 🚺 n@local.lab		
Storage proxies	*	SMTP host      unknown.local.lab	Email inte	rval <b>()</b> hours		
		Time settings Time zone ① US/Pacific Use NTP ① Storage settings Storage Interface optional ① <pre></pre>		Subr	v nit →	

Figure 9: Installing a Rack Unaware Cluster - Screen 9



Figure 10: Installing a Rack Unaware Cluster - Screen 10

#### **Installing a Data Center Aware Cluster**

The following screens are displayed when a Data Center Aware topology is set up. In this case, the name of the data center (and rack, if available) is derived from the fully qualified domain name (FQDN) of the host.

The data center field referred to in the following screens is the index (starting at zero) of the data center field. For example, if the data center is called snc1, and the hostname is host1.snc1.domain.com, then the data center field will be 1. All storage nodes and proxy nodes must adhere to this naming convention. The replication factor is set as 3 (assuming three data centers).



Figure 11: Installing a Data Center Aware Cluster - Screen 1

Install Hedvig Manage G	Clusters	root <del>*</del>
Install Hedvig	Specify basic properties for a new cluster	
Basic settings		
Cluster nodes Storage proxies Final settings	DC and replication Replication Policy ① RackUnaware DNS available ① SSH credentials ① Same as on the deploy node ① Cluster nodes ->	

Figure 12: Installing a Data Center Aware Cluster - Screen 2

Install Hedvig	Manage	Clusters		root *
Install Hedvig		Specify basic properties for	or a new cluster	
Basic settings	~	reparo		
Cluster nodes Storage proxies Final settings		DC and replication Replication Policy ① DataCenterAware ~	) Dual DC 🛛	
		Rack Field optional 🚺	Data center field 0	
		Not sure? <u>Test rules</u> DNS available <b>3</b>		
		SSH credentials 3		
		Same as on the deploy noc	le O	
		Sudo username 🕚	SSH password 1	
			Cluster nodes 🔿	

Figure 13: Installing a Data Center Aware Cluster - Screen 3



Figure 14: Installing a Data Center Aware Cluster - Screen 4

Install Hedvig	Manage Clusters	root 🕶
Install Hedvig Basic settings Cluster nodes Storage proxies	<ul> <li>Configure cluster nodes •</li> <li>In a cluster with DNS you have a choice to specify your cluster nodes either only by a fully qualified domain name (FQDN) or by both FQDN and IP address, separated by equal sign (=). All of the nodes must adhere to the same format.</li> </ul>	
Final settings	<ol> <li>reparol.ri.shci.hedviginc.com</li> <li>reparo2.r2.shci.hedviginc.com</li> <li>reparo1.ri.shci.hedviginc.com</li> <li>reparo10.ri.shci.hedviginc.com</li> <li>reparo11.r2.shci.hedviginc.com</li> <li>reparo12.r3.shci.hedviginc.com</li> <li>reparo13.ri.shci.hedviginc.com</li> <li>reparo13.ri.shci.hedviginc.com</li> <li>reparo14.r2.shci.hedviginc.com</li> <li>reparo15.r3.shci.hedviginc.com</li> <li>Enter cluster node host in format FQDN or FQDN=IP</li> <li>enderv paste line-separated node list</li> <li>coded duplicate line</li> <li>shifteenter insert a line after current</li> <li>up/dom.arton move between lines</li> </ol>	

Figure 15: Installing a Data Center Aware Cluster - Screen 5

Install Hedvig	Manage Clusters	root <del>*</del>
Install Hedvig	Storage proxies	
Basic settings	Add storage proxy	
Cluster nodes	✓ Cluster nodes	Final settings 🗲
Storage proxies		
Final settings		

Figure 16: Installing a Data Center Aware Cluster - Screen 6

nstall Hedvig		Storage	proxies		
asic settings luster nodes	* *	Add store	ige proxy		
torage proxies	~	#	Members	VIP	Cache distribution
ind seconds		1. 🗷 🗑	First member reparocvml.rl.sncl.hedviginc.c om Second member reparocvm2.rl.sncl.hedviginc. com	Public VIP reparovipl.rl.sncl.hedviginc.com=172.2 2.61.6 Private VIP 172.22.22.0 Private net 172.22.22 2	100% NFS vs 0% iS CSI

Figure 17: Installing a Data Center Aware Cluster - Screen 7

Install Hedvig	Manage C	lusters				r	pot <del>*</del>
Install Hedvig Basic settings Cluster nodes	* *	Email settings () Send emails from () unknown@local.lab	Send emails to	o 🚯 ocal.lab			
Storage proxies Final settings	~	SMTP host 🚯 unknown.local.lab	Email interval	hours			
		Time settings Time zone ① US/Pacific					
		Use NTP <b>1</b> Storage settings Storage Interface optional <b>1</b>					
		← Storage proxies		Subn	nit <del>&gt;</del>		

Figure 18: Installing a Data Center Aware Cluster - Screen 8

Install Hedvig	Manage C	lusters				root 🕶
Install Hedvig		Email settings ()	Sound amounts			
Basic settings	~	donotreply@hedviginc.com	alerts@hedv	iginc.com		
Cluster nodes	~			-		
Storage proxies	~	SMTP host	Email interval	()		
Final settings	~	gateway.nedviginc.com		nours	<b>_</b>	
		Time settings Time zone ① US/Pacific ① Use NTP ① Storage settings Storage Interface optional ①		Subr	× nit →	

Figure 19: Installing a Data Center Aware Cluster - Screen 9



Figure 20: Installing a Data Center Aware Cluster - Screen 10

#### **Installing a Dual Data Center Cluster**

In the case of a *dual* data center, which is a special case of data center aware deployments, there are two differences from a single data center setup:

- The dualdc toggle is set, which sets the replication factor as 2.
- A *witness* node, which is a node residing at a location other than the two data centers, is required.

The witness node is not a storage node and does not have to meet the requirements of a storage node. It is a VM made available as an OVA in the store.

The storage nodes, proxy nodes, and witness node must adhere to the naming convention as described in the data center deployment page (see *Installing a Data Center Aware Cluster*).



Figure 21: Installing a Dual Data Center Cluster - Screen 1





Install Hedvig	Manage C	lusters		root 🕶
Install Hedvig		Specify basic properties fo	r a new cluster	
Basic settings	~	hedvigcl		
Cluster nodes Storage proxies Final settings		hedvigcl DC and replication Replication Policy  DataCenterAware Rack Field optional C Not sure? Test rules DNS available SSH credentials SSH credentials C Latroduction	Dual DC O Data center field O 1	
			Close nodes 7	

Figure 23: Installing a Dual Data Center Cluster - Screen 3





Install Hedvig	Manage Clusters	root *
Install Hedvig Basic settings Cluster nodes Storage proxies Einal settings	<ul> <li>Configure cluster nodes •</li> <li>In a cluster with DNS you have a choice to specify your cluster nodes either only by a fully qualified domain name (FQDN) or by both FQDN and IP address, separated by equal sign (=). All of the nodes must adhere to the same format.</li> <li>node1.snc1.hedviginc.com</li> </ul>	
Piñai setungs	2. Image: node2.snc1.hedviginc.com         3. Image: node3.snc1.hedviginc.com         4. Image: node5.snc2.hedviginc.com         5. Image: node5.snc2.hedviginc.com         6. Image: node6.snc2.hedviginc.com         7. Image: node7-witness1.snc3.hedviginc.com         8. Image: node8-witness1.snc3.hedviginc.com         9. Image: Enter cluster node host in format FQDN or FQDN=IP         Image:	

Figure 25: Installing a Dual Data Center Cluster - Screen 5

HA (High Availability) Non-HA	
These Storage Proxies are configured	I with two Ethernet interfaces and run as an HA pair. For
failover to work correctly, a public VII	P address and a private VIP address are required for the
Ethernet interfaces.	
First member	Second member
hacvml.sncl.hedviginc.com	hacvm2.snc2.hedviginc.com
Public VIP	
by initiant bedying com-172 22 2	3 205
	5.205
Private VIP	Private net
172.22.22.2	172.22.22.0
Cache distribution	
100 % NFS	0 % iSCSI

Figure 26: Installing a Dual Data Center Cluster - Screen 6

Install Hedvig	Manage Clusters	root <del>*</del>
Install Hedvig	Storage proxies	
Basic settings	Add storage proxy	
Cluster nodes	✓ ← Cluster nodes	Final settings 🔶
Storage proxies		
Final settings		

Figure 27: Installing a Dual Data Center Cluster - Screen 7





Install Hedvig	Manage	Clusters					root 🕶
Install Hedvig Basic settings Cluster nodes Storage proxies Final settings	* * *	Email settings  Send emails from  unknown@local.lab SMTP host  unknown.local.lab	Send emai unknown Email inter 1	ls to ① @local.lab val ① hours			
		Time settings Time zone US/Pacific USe NTP Storage settings Storage Interface optional		Subm	> nit →		

Figure 29: Installing a Dual Data Center Cluster - Screen 9

Install Hedvig   Basic settings   Cluster nodes   Storage proxies   Final settings     Image: Storage proxies     Image: Storag	Install Hedvig	Manage	Clusters					root <del>*</del>
Use NTP    Storage settings   Storage Interface optional	Install Hedvig Basic settings Cluster nodes Storage proxies Final settings	* * * *	Email settings Send emails from donotreply@hedviginc.com SMTP host gateway.hedviginc.com Time settings Time zone US/Pacific US/Pacific US/Pacific US/Pacific Storage settings Storage settings Storage Interface optional	Send emails t alerts@hedv Email interval	o O viginc.com hours	>		

Figure 30: Installing a Dual Data Center Cluster - Screen 10

# Installing an S3-Compatible Object Storage Cluster

The following screens are displayed for the setup of an S3-compatible object storage cluster. The settings are similar to the data center or rack unaware setups shown previously. The only difference is that a proxy is selected as an objectstore type during the setup.



Figure 31: Installing an S3-Compatible Object Storage Cluster - Screen 1





Install Hedvig	Manage Clusters	root 🕶
Install Hedvig	Specify basic properties for a new cluster	
Basic settings	black	
Cluster nodes	DC and raplication	
Storage proxies	DC and replication	
Final settings	Replication Policy 3	
	DNS available 🕕	
	SSH credentials 0	
	C Same as on the deploy node 0	
	← Introduction Cluster nodes →	

Figure 33: Installing an S3-Compatible Object Storage Cluster - Screen 3







Figure 35: Installing an S3-Compatible Object Storage Cluster - Screen 5

HA (High A	vailability) Non-HA	
Host		
	a.nedviginc.com	
Protocol sup	port	

Figure 36: Installing an S3-Compatible Object Storage Cluster - Screen 6

Install Hedvig	Manage (	Clusters		root •
Install Hedvig		Storage proxies		
Basic settings	~	Add storage proxy		
Cluster nodes	~	← Cluster nodes		Final settings ->
Storage proxies				
Final settings				

Figure 37: Installing an S3-Compatible Object Storage Cluster - Screen 7

Install Hedvig	Manage (	Clusters			root <del>*</del>
Install Hedvig Basic settings Cluster nodes	* *	Storage p Add storag Non-HA s	proxies e proxy storage proxies ①		
Storage proxies	~	#	Host	Protocol support	Cache distribution
Final settings		1. 🕑 🗑	blackcvm1a.hedviginc.com	S3	-

Figure 38: Installing an S3-Compatible Object Storage Cluster - Screen 8

Install Hedvig	Manage	Clusters			root *
Install Hedvig Basic settings Cluster nodes Storage proxies Final settings	* * *	Email settings  Send emails from  unknown@local.lab SMTP host  unknown.local.lab	Send email unknown Email interv 1	s to ❶ @local.lab /al ❶ hours ∽	
		Time settings Time zone ① US/Pacific US/Pacific Use NTP ① Storage settings Storage Interface optional ①		¥ Submit-≯	

Figure 39: Installing an S3-Compatible Object Storage Cluster - Screen 9

	Install Hedvig	Manage	Clusters				root 🕶
Install Hedvig   Basic settings   Cluster nodes   Storage proxies   Final settings   Final settings Final settings  Final settings  Final settings Final settings Final settings <	Install Hedvig Basic settings Cluster nodes Storage proxies Final settings	* * * *	Email settings  Send emails from  donotreply@hedviginc.com SMTP host  gateway.hedviginc.com Time settings Time zone  US/Pacific US/Pacific US/Pacific US/Pacific US/Pacific Storage settings Storage settings Corage settings Corage noterface optional C C	Send emails to alerts@hedvi Email interval 1	o 0 ginc.com hours		

Figure 40: Installing an S3-Compatible Object Storage Cluster - Screen 10



Figure 41: Installing an S3-Compatible Object Storage Cluster - Screen 11

### **Installing a Regex-based Storage Cluster**

The following screens are displayed for the setup of a Regex-based Hedvig Storage Cluster.

A Regex-based setup is used for deployments that are DataCenterAware or RackAware, and the naming convention cannot adhere to the field-based naming conventions previously mentioned.

In some environments, a part of the hostname might contain the rack or data center information. In this case, a Regex can be supplied as input to define the part of the hostname that refers to the rack or data center. Some samples are provided in the Regex Builder screen in *Figure 47: Installing a Regex-based Storage Cluster - Screen 6.* 

Install Hedvig	Manage Clusters	root *
Install Hedvig	Specify basic properties for a new cluster	
Install Hedvig Basic settings Cluster nodes Storage proxies Final settings	<ul> <li>Specify basic properties for a new cluster</li> <li>Cluster Name ① regexcluster</li> <li>DC and replication</li> <li>Replication Policy ① DataCenterAware Host parse rules ① Field based Regex based</li> <li>DC/Rack Regex ①(?<dc>{3))*</dc></li> <li>Not sure? Test rules ① DNS available ①</li> </ul>	
	Same as on the deploy node 1	
	Cluster nodes ->	

Figure 42: Installing a Regex-based Storage Cluster - Screen 1



Figure 43: Installing a Regex-based Storage Cluster - Screen 2

HA (High Availability) Non-HA	
Host ussecvaphvgpr01.hedviginc.com	
Protocol support 🜖	
NFS/iSCSI S3 CVLT backup (NFS)	
Cache distribution 🕕	
	0 % iSCSI

Figure 44: Installing a Regex-based Storage Cluster - Screen 3

Install Hedvig	Manage	Clusters			root *
Install Hedvig Basic settings Cluster nodes	* *	Storage p Add storag Non-HA s	proxies e proxy storage proxies <b>0</b>		
Storage proxies	~	#	Host	Protocol support	Cache distribution
Final settings		1. C	ussecvaphvgpr01.hedviginc.com	NFS/iSCSI	100% NFS vs 0% iSCSI Final settings →

Figure 45: Installing a Regex-based Storage Cluster - Screen 4

Install Hedvig	Manage Clusters	root 🕶
Install Hedvig Install Hedvig Basic settings Cluster nodes Storage proxies Final settings	Email settings ①         Send emails from ①       Send emails to ①         donotreply@hedviginc.com       alerts@hedviginc.com         SMTP host ①       Email interval ①         gateway.hedviginc.com       1       hours         Time settings       Time zone ①         US/Pacific       ✓         Use NTP ①       ①	root *
	Storage settings Storage Interface optional C Storage proxies Submit	

Figure 46: Installing a Regex-based Storage Cluster - Screen 5



Figure 47: Installing a Regex-based Storage Cluster - Screen 6

### **Cluster Overview**

Install Hedvig Manage Clusters	root *
Add * Health Logs Upgrade         Add * Health Logs Upgrade         Doces         reparol.rl.sncl.hedviginc.com *         reparocvml.rl.sncl.hedviginc.com *         reparocvml.rl.sncl.hedviginc.com *         reparocvml.rl.sncl.hedviginc.com *         reparocvml.rl.sncl.hedviginc.com *         reparocvml.rl.sncl.hedviginc.com *         reparocvml.rl.sncl.hedviginc.com *	Most recent task: Install completed 11 PAUNING PLAY 53 [initialize ha cvms] ************************************

Figure 48: Cluster Overview

# Adding an HA Storage Proxy

These Storage Proxies are configu failover to work correctly, a public Ethernet interfaces.	red with two Ethernet interfaces and run as an HA pair. For VIP address and a private VIP address are required for the
First member	Second member
Public VIP 🕄	
Private VIP	Private net
Cache distribution	0 % iSCSI

Figure 49: Adding an HA Storage Proxy - unfilled screen

Add HA proxy	
These Storage Proxies are configured with	two Ethernet interfaces and run as an HA pair. For
failover to work correctly, a public VIP add	ress and a private VIP address are required for the
Ethernet interfaces.	
First member	Second member
reparocvm3.r2.snc1.hedviginc.com	reparocvm4.r2.snc1.hedviginc.com
Public VIP i	
reparovip1.r1.snc1.hedviginc.com=172.22.6	51.7
Private VIP	Private net
172.22.22.3	172.22.22.0
Cache distribution	
100 % NFS	0 % iSCSI

Figure 50: Adding an HA Storage Proxy - filled screen

## Adding a Cluster Node

Add cluster nodes	
1. Enter cluster node host in format FQDN or FQDN=IP	
Cancel	Ru

Figure 51: Adding a Cluster Node - unfilled screen



Figure 52: Adding a Cluster Node - filled screen

# **Fetching Cluster Logs**



Figure 53: Fetching Cluster Logs

# Logging in to a Cluster

H	Install Hedvig	Manage Clusters	oot 🕶
	Log in to cluster ares		
	Username		
	Password		
	Log in		

Figure 54: Logging in to a Cluster - unfilled screen

H	Install Hedvig Manage Clusters	root 🕶
	Log in to cluster ares	
	Username	
	root	
	Password	
	Log in the second se	

Figure 55: Logging in to a Cluster - filled screen

# **Managing Clusters**



Figure 56: Managing Clusters

# Log View

	Manage Clusters	1000
	Install in progress	
	Cancel install	
1 + env HV USER-root Warning missing Ensuring password 4 RUNNING: deploy_net 6 RUNNING PLAY 1 [co 8 RUNNING PLAY 2 [in: 10 RUNNING PLAY 3 [cd 11 RUNNING PLAY 4 [va 12 RUNNING PLAY 5 [va 13 RUNNING PLAY 5 [va 14 RUNNING PLAY 6 [ve 19 RUNNING PLAY 6 [ve 10 RUNNING PLAY 8 [ve 12 RUNNING PLAY 8 [ve 12 RUNNING PLAY 9 [cr. 14 RUNNING PLAY 10 [in 15 RUNNING PLAY 10 [in 16 RUNNING PLAY 10 [in 16 RUNNING PLAY 10 [in 17 RUNNING PLAY 10 [in 16 RUNNI	<pre>//opt/hedvig/bin/hv_deploydeploy_nem_cluster /home/ddmin/reparo/config.ansi arrs inventory file:</pre>	

Figure 57: Log View

#### **Progress View**



Figure 58: Progress View



Figure 59: Progress View with warnings



Figure 60: Progress View with warnings expanded

#### Successful Install



Figure 61: Successful install with warnings



Figure 62: Successful install with warnings expanded

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Software-defined AES-256, FIPS compliant encryption of data in flight and at rest.