Linux Cluster Management Console

By : Abdul Jabbar

Operating System Details: uname -r Node01: 2.6.18-92.el5 Node02: 2.6.18-92.el5

IP Addressing

Node01: eth0: 192.168.1.10 /24 eth1: 10.10.10.1 /24 Node02: eth0: 192.168.1.11 /24 eth1: 10.10.10.2 /24

Installation of Time Server:

[root@Node01 ~]# yum install -y ntp [root@Node02 ~]# yum install -y ntp

Installation of Apache Server Install:

[root@Node01 ~]# yum install -y httpd [root@Node02 ~]# yum install -y httpd

Verify the package is installed:

[root@Node01 ~]# rpm -qa httpd httpd-2.2.3-87.el5.centos

Starting httpd demon on both Nodes:

- service httpd start

- chkconfig httpd on

Setting up Apache server health page for DRBD testing... [root@Node01 ~]# vi /etc/httpd/conf/httpd.conf We need add or un comment the following lines....

<Location /server-status> SetHandler server-status Order deny,allow Deny from all Allow from 127.0.0.1 </Location>

Verify on Both Servers--

[root@Node01 ~]# service httpd restart [root@Node01 ~]# wget http://127.0.0.1/server-status --02:36:24-- http://127.0.0.1/server-status Connecting to 127.0.0.1:80... connected. HTTP request sent, awaiting response... 200 OK Length: 1737 (1.7K) [text/html] Saving to: `server-status.2'

100%[====>] 1,737 --.-K/s in 0s

02:36:24 (92.0 MB/s) - `server-status.2' saved [1737/1737]

Download LCMC – Linux Cluster Management Console. We will use to manage the DRBD - Cluster nodes deployment procedures . LCMC can be installed on the Windows/Linux/Sun Solaris Systems. Here is the link : http://sourceforge.net/projects/lcmc/files/LCMC-1.6.8.jar/download

Once "LCMC-1.6.8.jar" downloaded You just need to double click and start the java applet.

Step - 1 -- Adding Hosts in the LCMC console.

0	Linux Cluster Management Console 1.6.8	- 0 ×
Session Edit Help	URED and Pacemaker support and training: http://www.linbit.com	Administrator 💌 🗆 Advanced
All Clusters		
	Add Host / Weard	
🤋 🔝 All Hoats	Entering Constant Manual Constants	EMenu
	Cluster 1 Connect	
	add configured pacemaker cluster	
	Countername Connect pode1 Connect	
	Linux Cluster Management Console	
A.T.	TCM C	

Connecting both hosts via SSH..

•	tin	ww.Cluster.Manacement.Console.168		- 5 X
Session Edit Help	ORED and Pacemaker support and training http://www	w linbl.com		Administrator - Advanced
All Clusters				
	🗐 dani kuma v	Weeken 🔛 Million (Million)		
			×	Menu
	Host Wizard Enter the hostnameliP and usernan is resolvable by DNS. Username or user with sudo access. You may enter more hosts delimite sinfer the same number of usernam	me of the server. Host can be entered either as hostname or IP will be used for SSH connections and command executions. No ed with "," if the server is reachable not directly but via several ho nes and hostnamos/Ps as they are hops.	address. Enter a hostname only if ormally it should bu the root user ups if this is the case you have to	
	Host: 192.168.1.10 S1 Username[root v	SH Port 22]의 Fruish Q Cancel	
¢ []				
0	Lin	ux Cluster Management Console 1.6.8		- 5
Session Edit Holp	Lin RBD and Pacemaker support and training: <u>http://www</u>	ux Cluster Management Console 1.6.8 w.inpit.com		- đ × Administrator 💌 🗆 Advanced
Session Edit Help	Lin XRBD and Pacemakar support and training: <u>http://ww</u>	nux Cluster Management Console 1.6.8 w Indit.com		Administrator
Session Edit Holp	Lin XRBD and Pacemaker support and training: <u>http://ww</u>	nux Cluster Management Console 1.6.8	e de la compañía de l	Administrator
Session Edit Holp	Lir DRED and Pacemaker support and training: http://www.	nux Cluster Management Console 1.6.8		Administrator V Advanced
Seesion Edit Holp	Lin 2RED and Pacemaker support and training: http://www. Create SSH Connection (192) Trying to connect to host via sch. Yo Todewoon pacephrase and pacewor Connect to host via sch. Yo Todewoon pacephrase and pacewor	nux Cluster Management Console 1.6.8 w INDECOT	pop up dialog. You can switch	Administrator V Advanced
Seesion Edit Holp	Lin PRED and Pacemaker support and training: http://www. PRED and Pacemaker support and training: http://www. Prester SSH Connection (192) Trying to connect to host via sch. Yo to be on pacephrase and pace wor To you want to accept the Hex Fingerprint: d0:37cct Bubblebanble Fingerprint	nux Cluster Management Console 1.6.8 williat.com	pop up tialog. You can switch	Administrator
Seesion Edit Holp	Lin PRED and Pacemaker support and training . <u>they level</u> Create SSH Connection (192 Trying to connect to host via sch. Yo Solviering passphrase and passwor They represent to accept the Hex Fingerprint. d0:37cd Bubblebabble Fingerprint	nux Cluster Management Console 1.6.8 winat.com	pop up tialog. You can switch	- G
Seesing Edit Holp	Lin PRED and Pacemaker support and training. <u>Iterative</u> PRED and Pacemaker support and training. <u>Iterative</u> Present and pacemaker support and training. <u>Iterative</u> Present and pacemaker support and pacemaker Present and pacemaker support and training. <u>Iterative</u> Present and pacemaker support and training in the support and the s	nux Cluster Management Console 1.6.8 williat.com	pop up fialog. You can switch	Administrator
Seesion Edit Holp	Lin 2RED and Pacemaker support and training: http://www. PRED and Pacemaker support and training: http://www. Create SSH Connection (192 Trying to connect to host via sch. Yo between pacsphrase and passwor Provide the scheme of the sc	nux Cluster Management Console 1.6.8 w III Dit Cont L168.1.10) Du can either enter a RBA or DBA key or enter a password in the rd authentication by preseing enter without entering anything. Select an Option he hostkey (type ssh.rsa) from 192.168.1.10 ? S55H0.4da95cca9:1e39.199.0534fcb tt: xopol.lodyb.maxop.nacc/mathba.htirz.cezoLhonyt.kanoz.c Yoe No Cancel	pop up dalog. You can switch	Administrator
Seesion Edit Holp	Lin 2RED and Pacemaker support and training: http://www. Press of the second	nux Cluster Management Console 1.6.8 w INDECOT 2.168.1.10) Du can either enter a RSA or DSA key or enter a password in the d authentication by pressing enter without entering anything. Select an Option he hostkey (type sch-rsa) from 192.168.1.10 ? Schftb:/ddg5-cas9-ter39:1920/1324fcb at xogol-lodyb-mavop-nacol-matoch-hirdz-cezot-honyt-kanoz.4 Yos No Cancel Rack Next	pop up dialog. You can switch	Administrator V Advances



Adding User and password for ssh



Step-2 Installing DRBD and Heartbeat using LCMC.

You can connect to your existing setup of DRBD + HB, , In this case I will install the HB 2.1.3 and DRBD 8.3.



			Linux Cluster Mar	agement Console 1.6.8			- - ×
ession <u>E</u> dit <u>H</u> elp	DRBD and Pac	emaker support and training [http://www.linbit.com				Administrator 💌 🗌 Advanc
All Clusters							
				and a many series			
All Heats	9					×	Eller
r		Installation Check (No	de01)	announde an also do incluite d'March ann		- Jacobell' In diseas	
		to install them. You can che You can also choose a Pac	ack for DRBD upgrade as cemaker installation meth	well if installed DRBD was detected. od.	can press one or in		
		Heartbeat : 2.1.3	testallation mit	holt you watal 1972.13 (devolve)		Install	
			ned 🛕 Installation and			Install	
		Orbd : not instal	lied 🛕 Installation met	hod: from the source tarball		▼ Install	
					cat 1		
		Some of the required comp					
						10.0	
			Skip this dialog	Back 🔅 Next	1 ⁶ Finish	Cancel	
Installing: PyXML	1		### [3/4]				
Installing: heartbeat	*		### [4/4]				
installed: heartbeat.x86_64 (0:2.1.3-3.el5.ce	ntos al5 heartheat-nile y	96 64 0-2 1 3-3 -	15 centor heartheat-stonith vá	6 64 0.2 1 3-	3 el5 centre	
cmplete!					-		
IDOUSNODE01:+2							
			Linux Cluster Mar	agement Console 168			- 0 ×
Session Edit Help			LINER CHARGE ING	agement console now			Administrator 💌 🗌 Advance
All Clustors							
		1		and comments of the			
	0					×	EMen
		Installation Check (No	dc01) aker and other important c	emponents are already installed. If not you	can press one of th	e Install' bettons	
		to install them. You can che You can also choose a Pac	eck for DRBD upgrade as cemaker installation meth	vell if installed DRBD was detected.			
		Heartbeat : 2.1.3	In Hallation met	hod: yum install: 1(8 2.1.3 /obsoletin)	-	Install	
			natellation met	holl clusterfalls repo 1.9.5/1.2.x		Install	
		Drbd : 8,3.15	in statistics met	hod: yom instat: II.3.a.	Cher	ck for Upgrade	
		All required components ar	re installed.		_		
			🗌 Ski	p this dialog 🔩 Back 🏼 🌺 Next	Finish	Q Cancel	
Installing: kmod-drbd83	4		#### [3/3]				
Installed: kernel.x86 64 0:2	.6.18-371.11.1.e	15 kmod-drbd83.x86 64	0:8.3.15-3.el5.ce	entos			
Dependency Installed: drbd83	.x86_64 0:8.3.15	-2.el5.centos					
[root@NodeD1:~#] /sbin/modp	robe drbd						
100CSN0GeD1:~#							

Installing DRBD now...

Session Edit Help		Linux Cluster Mana	gement Console 1.6.8	- 🗗 🗙 Administrator 🔻 🗆 Advanced
All Clusters				
		anna anna	Managam - Masar	
	9			
	DRBD Instell (Node DRBD Is being installed may need to find. downi kemel version with "una	H) For some distributions, especially older ReitHats, if ad and install the kernel-devel package for your kern me -r command. After that you can reity this step again the some some source of the	you use an older kernel fran is currently available, you el yourself or update the kernel. You can find out your n.	
	DRBD was successfully	installed.		
	-	Sat Bat	ck 🍺 Next 🦉 Finish 🧟 Cancel	- M.C
Installing: k	nod-drbd83 ####	100000000000000000000000000000000000000		<u> </u>
Installed: kern Dependency Inst Complete! [root@NodeOl:-# [root@NodeOl:-#	el.x86_64 D:2.6.18-371.11.1.el5 alled: drbd83.x86_64 D:8.3.15-2.4 /abin/modproke drbd	unod-drbd03.x06_64 0:8.3.15-3.e15.cen *15.centos	itos	

Required software's installed ..

8	Li	nux Cluster Managerr	ent Console 1.6.8				×
Session Edit Help						Administrator 💌 🗌 Ad	lvanced
All Clusters							
	D and the second		and constructions				
					×		Menu
	Installation Check (Nodc01) Checking if DRBD, Pacemaker and to install them. You can check for D You can also choose a Pacemake	d other important compor DRBD upgrade as well if i er installation method	ents are already installed. If not, you ca istalled DRED was delected.	in press or	ne of the "Install" buttons		
	Heartbeat : 2.1.3	Inelalation method: ye	m instalt: 1(8 2.1.3 /absoletu)	-	lestall		
	FembleConsynt ; not installed	Installation method. cl	interlates report £0x/12.x		Install		
	Drbd : 8.3.15	Instaliation method: y	m install: 8.3.a		Check for Upgrade		
			S Cale				
	All required components are instal	lled.					
	-						
		🗌 Skip this	lialog 🚽 Back 🏓 Next	ill [®] Fin	Ista		
							•
installing: Kmou-Grodes		[3/ 3]					
Installed: kernel.x86_64 0:2.6.18-371.11.1.	el5 kmod-drbd83.x86_64 0:8.	.3.15-3.e15.centos					
Complete!	5-2.e15.centos						
<pre>[root@NodeO1:-#] /sbin/modprobe drbd [ioot@NodeO1:-#] </pre>							-

Q		Linux Cluster Manageme	ent Console 1.6.8		-	8 3
All Clusters					Administrator *] Advanced
		an and the second	Add Guster / Wizard			
9 RAI Hoste				×		
		Finish (Node01)				_
		Configuration of the host is now complete. You can now add a	another host or configure a cluster.			
		Add Another Host	Configure Cluster	V Save		
		-				
	1 		Beck Mext A Finish	Cancel		
Installing: kmod-drbd83		[3/3]				-
Installed: kernel.x86_64	0:2.6.18-371.11.1.el5	kmod-drbd83.x86_64 0:8.3.15-3.e15.centos				
Dependency Installed: drb Complete!	dB3.x86_64 0:8.3.15-2	.el5.centos				
[root@NodeD1:-#] /sbin/m [root@NodeD1:~#]	odprobe dzbd					-
Session Edit Help		Linux Cluster Managemen	t Console 1.6.8		- Administrator	O Advancer
All Clusters						
		and some owners	Add Cluster / Wizard			
Vode01	•					Menu
		e artbeat Install (Node02) eartbeat and Pacemaker packages are being installed.				
			Cartosi /	10		
	In	stalling				
			Bark Navr Brisn	@ Cancol		
Remove () Fackage(s)				*****		-
Total download size: 3.4 M						
Downloading Packages:						
<pre>(2/4): heartbeat-stonith- 10 (2/4): heartbeat-pils-2.1 10</pre>	00%					
	102	408 kB 00:09 ETA				

Adding Node02 (Other host using same procedure)

Step-3 Creating & Deploying Cluster



Adding Node01 and Node02 in to the cluster.

Session Edit Help	Linux Cluster Management Console 1.6.8	- 🗗 🔜
<u>e</u>		
	Select Hosts (Cluster 1) Select two or more hosts that are part of the DRED/Pacemaker duster.	
	Node01 V Node02	
	Eack Mext Cancel	
a.7		

Session Edit Help			Linux Cluster Management Console 1.6.8	- O
🧶 🔛 Chaster 1 X				in the second se
	0			121
		Cluster Communication S Now you have to choose betwee on, although theoretically you m better tested at the moment, but	Stack (Cluster 1) en CorosyndOpen403 and Hearlbeat, if you have installed both. If is either one or another from no may be able seamlessly switch between them at any time. Heartbeat is more widely used and thu it being in the maintenance mode only. If is not actively developed anymore.	w s
		Heartbeat		
			Skip this dialog 🐋 Back Dent Timus Canc	ei _
	-			

Cluster configuration file we can use for mcast eth0 default IP settings. For internal communication (Heartbeat+replication) between Node01 and Node02 I'm using eth1: 10.10.10.0/24... its up to you how would you like to configure it....

9	Linux Cluster Management Console 1.6.8	- 8 ×
Session Edit Help	×	Administrator 💌 🗌 Advanced
Cluster 1 X	Heartbeat initialization (Cluster 1) In this step Heartbeat config (Moha dha.ch) is created and Heartbeat is started. You do not have to overwrite your old config if you have some special options. You can modify it by hand on every host in the cluster. You have to crease the "Create HB Config" button to save the new configuration on all hosts. By the way its CK to have ucast address to the node's own interface, it will be ignored, at the same time it allows to have the same config file on all hosts.	
	Node01:/etc/ha.4ha.ct: file not found _ see the existing configs	
	mcast etho 239.192.0.0 094 1 0 remove bcast eth 1 remove # Dcast v eth 1 add # respawn hackuster /usrilb64/heartbeatt6opd	
	≢ apiauth dopd gid=haclient uid=hacluster ≢ respawn root \usrilb64.heartbeatimgmtd-v	
	Create/Overwrite HB Config	
	Skip this dialog	

Q	Linux Cluster Management Console 1.6.8	- 8 ×
Session Edit Help	×	Administrator 💌 🗌 Advanced
Custer 1X	Heartbeat Initialization (Cluster 1) In this step Hearbeat config (lefoha.dha.df) is created and Hearbeat is started. You do not have to overwrite your old config if you have some special options. You can motify it by hand on every host in the cluster. You have to press the "Create HB Config" button to save the new configuration on all hosts. Drive way it is CK to have ucast address to the node's own interface, it will be ignored, at the same time it allows to have the same config file on all hosts.	
	Node01:/etc/ha.dha.cf: file not found _ see the existing configs	
	mcast etil0 293.192.0.0 694 1 0 remove beast etil0 <u>remove</u> # beast etil1 <u>remove</u> # cspawn hachster lusrifib5Aheartheattiopd # apiauth dopd gid-hacilent uid-hachster # respawn not usrifib6Aheartheattiogmd.v	
	Skip this dialog Hvit 🔩 Back 💓 Next.) Keep Old Conting 🎼 Finish 🖉 Cancel	

Now we need to start Heartbeat on both Nodes..

9	Linux Cluster Management C	onsole 1.6.8		- 0 ×
Session Edit Help				Administrator 🔻 🗌 Advanced
Cluster (X)	Cluster/DRBD Initialization (Cluster 1) Cluster/DRBD Initialization. Load the DRBD and start the Corceynd	(OpenAIS) or Hearlbeat, if you wish at	this point.	
	O use letclinit.dicorosync	Ietclinit.d/openais		
	Node01	Node02		
	DRBD is loaded	DRBD is loaded		
	Heartbeat is running	Heartbeat is running Run at s	system start-up	
	Corosync is not installed Switch to Corosync	Corosync is not installed Switch	a to Corosync	
	Stop this dialog	eack Fext	Finish Cancer	

Cluster Service is initializing the resources it will took 1 to 3 mins...

6	Linux Cluster Management Console 1.6.8	- a ×
Session Edit Help		Administrator 💌 🗌 Advanced
Casher 1 X		
Cluster Hosts Cluster Hosts Hotvorts Storage (DRDL LVM) CRNI (Pacemaker) UVMs (XVML Xan)	Cluster 1: updating resource agents Cluster 1: updating DRBD resources Node02: updating server info Node01: updating server info Cluster 1: updating Pacemaker status Node01: updating drbd status Node02: updating drbd status	

Step- 4 Adding Virtual IP - 192.168.1.100 in cluster





IP address mapped to Node01 successfully..



Step-5 Adding Services Apache





Apache Service bonded successfully with Node01...

8	Linux Cluster Manag	ement Console 1.6.8	- 0
ession <u>E</u> dit <u>H</u> elp			Administrator 💌 🗹 Ad
Ka BCluster 1 X			
Cluster Hosts Cluster Hosts Storage (DRED, LVM) CRM (Pacemaket) Available Services Paddr2 (1/ 192.168: apache (1) VMs (KVM, Xen)	entre Rodelt Pladdr2 (1/192.169.1.100) rommy on mail Registration (1) rommy on mail	ponk skeped 0402 Fraemskir Fra	ns ignore 20 Seconds 0 2.1.3-ande: 55/30561255 roboot if 60 Seconds 1 30 ac
		7. U Ston Ornhan Artione	14 ⁴
<pre>4</pre>	<pre>cributes id="res_IPaddr2_1-meta-options">attribut cributes id="res_IPaddr2_1-meta-options">attribut adbj_type resources -C -X '<pre>crimitive id="res_r ">attributes>Knypair id="nypair res_apache_1-com "port" value="80"/>/attributea>/instance_attribu opres_apache_1-stop" nama="stop" timecut="100"/> rributes id="res_apache_1-meta-options"><attributes><td><pre>Stop Orphan Resource Stop Orphan Resource Stop Orphan Actions tes></pre></td></attributes>' apache_1" class="coff provider="heartbeat" type="apache" >< figifile" name="configifile" value="/tuc/httpd/conf/httpd/conf stop>coffigifile" value="/tuc/httpd/conf/httpd/conf top>coffigifile" value="/tuc/httpd/conf/httpd/conf top>coffigifile" value="/tuc/httpd/conf/httpd/conf top>coffigifile" value="/tuc/httpd/conf/httpd/conf stop>coffigifile" value="/tuc/httpd/conf/httpd/conf stop>coffigifile" value="/tuc/httpd/conf/httpd/conf stop=coffigifile" value="/tuc/httpd/conf/httpd/conf stop=cofficient" value="/tuc/httpd/conf/httpd/conf/httpd/conf stop=cofficient" value="/tuc/httpd/conf stop=cofficient" value="/tuc/httpd/conf stop</pre></pre>	<pre>Stop Orphan Resource Stop Orphan Resource Stop Orphan Actions tes></pre>	as 🗹 Instance_at if"/>nvpai ' name="sta

Step- 6: iPtables : Here you can see both Nodes Online Now – iptables services is blocking the heartbeat priority bits, You can add the rule for this purpose. I stopped the iptables service for now.

	Linux Cluster Management Console 1.6.8	- 6 ×
Session Edit Help	DRBD and Pacemaker support and training: http://www.linbit.com	Administrator 💌 🗌 Advanced
Eliciuster 1 X		
Cluster Hoels Stratege (DRBD, LVM) CHM (Pacemaker) Padd2 (11192168: apache (11) Vlas (KVM, Xan) Vlas (KVM, Xan)	Image: source of the source of th	Imare options are available in advanced mode. Stonth Enabled Resource Stickiness 100 Vorcion Cluster Recheck Interval Maintenance Mode
A		

Step-7: Starting IP-Services before the Apache service...

1	Linux Cluster Management Console 1.6.8		
ssion <u>E</u> dit <u>H</u> elp	DRED and Pacemaker support and training. http://www.linbit.com		Administrator 💌 🗌 Adva
Eluster 1 X			
Clusier Hosts Networks Scrage (DRBD, LVII) CRBQ (CRBD, LVII) CRBQ (Pacemaker)	evine Node01	mure options at	e available in advanced mode. Close O Master/Slave
apache (1)	Paddr 2 (1 / 192 168.1.1.00)	Resource	res_IPaddr2_1
	Add New Dependent Group Add New Dependent Group Add New Dependent Service Start Before Start Before C (Total 2 (Index 2))	Required Options	0CE1Paddr2
	Store Reset Sail-Court (Clean Un)	- Advanced Options	eth0:0 eth0:0
	by an analysis of the second s	Other Options CIDR netmask	24
10000	Migrate FROM Node02	Meta Attributes	consthing colosiada
	Remove Service	Target Role	started
	View Service Log	Host Locations	1/2 //
	More Migration Options Edit Config Files	on Node01	< <nothing selected="">></nothing>
		pingd	< <nothing selected="">></nothing>
		Operations	
T D		Same As	advisory minimum

Q	Linux Cluster Management Console 1.6.8	- C ×
Session Edit Help	DRBD and Pacemaker support and training: http://www.linbit.com	Administrator 💌 🗌 Advance
Session Edit Help Session Edit Help Cluster Hosts Cluster Hosts Cluster Hosts Character (DRBD, LVM) CHAracemater) Available Services Sentce	Unux Cluster Management Console 1.6.8 DRED and Pacemaier support and training: http://www.linbit.com withe Woodo01 withe Paddr2 (1/192 186 1.100) United States Stat	Administrator Administrator Administrator Administrator Administrator Administrator Advance Administrator Advance Administrator Advance Administrator Advance Administrator Advance Administrator Advance Adv
	Repartie (1) Timing an receive	Maintonance Modo

Apache is running and functional for Fail-over...

Site is functional with virtual IP 192.168.1.100...

0	Linux Cluster Management Coscole 1.6.8	- 0 ×] spoteline x	- 5 - 1
Sension (SAL (SHD	DPED and Pacenaire separatar/draining. <u>Houbers instance</u>	Atmosfator 💌 🗹 Alvano	[™] ← → C [] 192168.1.00] Server status	10 0 0 0 0 ± ≡
Contribute C		Back Registry Optimizer Back Registry Optimizer Hennet Coaler Hennet Coaler Descars Biolises Back Registry Optimizer Descars Biolises Back Registry Optimizer Back Registry Optimizer <td>Apache Server Status for 192.168.1.100 Sere Venic Apach 223 (2008) Sere Venic Apach 223 (2008) Sere Venic Apach 223 (2008) Const Time Monley, 25 (45 2014 12) 009887 Bear Time Monley, 25 (45 2014 12) 009887 Seedoust Rec</td> <td></td>	Apache Server Status for 192.168.1.100 Sere Venic Apach 223 (2008) Sere Venic Apach 223 (2008) Sere Venic Apach 223 (2008) Const Time Monley, 25 (45 2014 12) 009887 Bear Time Monley, 25 (45 2014 12) 009887 Seedoust Rec	
anne" and " solars" solars" "solars" solars" solars" solari (solars" solarity (solarity) solar" solarity (solarity) solars" solarity (solarity) (sola)(solarity) (solarity) (soci)(solarit) (solarity) (soci)(solarit) (solarity)	sampar idi"ngan na jindad jenda yanan" sam"nda yanan" salamWi kompar ja ang kanana geninamang ang ang ang ang ang ang ang ang ang	etoparena inskil infakti sanstalia teoparena inskil instalia timeteto (kon antalia) timeteto (kon antalia) timeteto (kon antalia)	To chele still report reli careta den effectaria proceedito artic la consectionaria (n. Bentin Aparin 2.2.3 Conto) Serve et 32.262.200 Por 18	

Step- 8: Successfully Tested fail-over with Node02

8	Linux Cluster Wanagement Console 1.6.8	- 0 - 0	Capitelies e	- 0 1
genin (M (H)	IPED and Pasemaker support and raining <u>title Averalizations</u>	kinninghater 💌 🖓 kitesees	¹ € → C 1 1921681100 server status	2120 ⊡ 0 8 0 ± ≡
Code food Code food		Access to a	Apache Server Status for 192.168.1.100 Som Vanie (pack/23)(Carlif) Som That Mar 2014 (MSH 01941 Const Than Marky 35-40 (MH MSH 01941 Rand	
(metificiefficief) /um/skok (metificiefficief) /um/skok (metificieficief) /um/skok (metificieficief) /um/skok (metificieficief) /um/skok (metificieficief) /um/skok (metificieficief) /um/skok	Ven menne -enti 4 pinitie 4 en Media 1 g tapt nie 4 stand Ven menne -enti 4 pinitie 4 se en gaak 1 g tapt nie 4 stand Ven genaam - enti 4 pinitie 4 se en gaak 1 g tapt nie 4 stand Ven genaam - enti 4 pinitie 4 se gaak 2 g tapt nie 4 stand Ven genaam - enti 4 pinitie 4 se gaak 2 g tapt nie 4 stand Ven genaam - entie 4 pinitie 4 se gaak 2 g tapt nie 4 stand Ven genaam - entie 4 se gaak 1 g tapt nie 4 stand Ven genaam - entie 4 se gaak 2 g tapt nie 4 stand Ven genaam - entie 4 se gaak 2 g tapt nie 4 stand Ven genaam - entie 4 se gaak 2 g tapt nie 4 stand Ven genaam - entie 4 se gaak 2 g tapt nie 4 stand Ven genaam - entie 4 se gaak 2 g tapt nie 4 stand Ven genaam - entie 4 se gaak 2 g tapt nie 4 stand Ven genaam - entie 4 stand Ven genaa		To oblas stategoet vali const data admanda posendo sos de Eccessio Eccessio en de defen Apale 229 Cantill Berne al XII de 1300 Per 86	

Virtual IP Bonded with Node02 Successfully ..

