

Data Center High Availability

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About This Document

Each Utopia Demo will have two or three pieces of documentation, to be used as follows:

1. use this Quickstart to prepare for your demo meeting. It includes everything you need to know to get the right virtual machines started and ready to begin showing the solution. Use this quickstart if you are building the demo locally on your own hardware or if you are accessing a pre-built version on the Novell Online Demo System (NODS)
2. Once your demo virtual machines are started and at the right place you're ready to begin your demo. If you know the products and your customer's requirements then you can go ahead and deliver your own demo using the system. However if you would like further instructions then the Tutorial will give you a guide of how to drive the demo.
3. In some cases a third piece - a Sample Demo is provided, which gives an illustration of how the solution might be shown to a customer.

For online copies of all these documents please visit <http://www.novell.com/partners/demosystems>

Demo Synopsis

In this demonstration you will show XEN combined with the HA addons ability to cluster and fail over a Apache Web Server from one node to another

Note there are two cluster services, IP address and Apache

Note that the data apache serves is via a iscsi ocfs2 shared storage device.

Setup Instructions

The HA demo can be performed on a single host.

Make sure UtopiaVault is available to the host and `xenstore` is mounted at `/utopia/xenstore`

Add the two nodes to the virtual machine manager

- open terminal
 - `xm new /utopia/xenstore/Node1UTP/Node1UTP`
 - `xm new /utopia/xenstore/Node1UTP/Node1UTP`

The two nodes should now be available to manage

- Check via Virtual Machine Manager or command line `xm list`

Start Node1UTP, Node1 must be fully start before starting Node2

- Start via Virtual Manager or command line `xm start Node1UTP`

Start Node2UTP

- Start via Virtual Manager or command line `xm start Node2UTP`

Virtual Machines

Node1UTP			
IP address	Memory	Disk Space	DVD #
172.17.2.43	512	NA	UtopiaVaultUTP

Node2UTP			
IP address	Memory	Disk Space	DVD #
172.17.2.44	512	NA	UtopiaVaultUTP

Cluster Resource

HAClusterUTP			
IP address	Memory	Disk Space	DVD #
172.17.2.45	NA	NA	NA

User ID's

u:root p:n0v3ll

Preparing The Demo

Now the Nodes are up... set up the rest of the demonstration

I recommend you use the host. Make sure the host can ping one of the Nodes

- `ping 172.17.2.43`
 - if this fails make sure the node has a 172.17.2.xxx address bound to br0 if not dynamically add
one `ifconfig br0:1 inet 172.17.2.xxx netmask 255.255.255.0`

open a terminal and ssh to Node1UTP

- `ssh -X -lroot 172.17.2.43 / password is n0v3ll (you may need to accept the certificate)`

load the High Availability GUI

- in the ssh window type `crm_gui &` [return]
- login in as `root/n0v3ll`

View the WebServer

- open firefox and hit the cluster IP address
- `http://172.17.2.45`

Arrange the windows so that the HA GUI, ssh console and Firefox are all visible.

Notes / Issues

Its advisable to add the host name to your local /etc/hosts file as this will make the demo description easier as you will refer to real names not IP Addresses

Where next?

- Visit our documentation site at <http://www.novell.com/partners/demosystems> and navigate to the demo you are preparing
- Watch the Tutorial for your demo.
- Watch the Sample Demo if one is provided.
- In case of any issues please post your query to the support forum at <http://forums.novell.com/novell-product-support-forums/utopia/>