

## IBM Servers and Storage Demos IBM Virtualization Manager Topology Map

### IBM\_Virtualization\_Manager\_Topology\_Map\_D\_Nov06

#### 1a 0:00

This demonstration takes a closer look at how administrators can use the IBM Virtualization Manager to identify hardware problems, determine the potential impact to virtualized environments, and take preventive action to avoid problems.

#### 1b 0:20

The health summary page shows us a warning error on one of our BladeCenter Chassis. By selecting the topology map for that chassis, we can get a better feel for the situation.

#### 1c 0:30

From this view, we clearly see the fatal error on one of the ethernet switches.

#### 1d 0:37

Since the second ethernet switch in the BladeCenter chassis provides full redundancy, there is no immediate impact to the health of our blade servers.

#### 1e

A second failure however, would be a problem. Although a second failure is unlikely, we decide to take proactive action to move some of our critical workload to another chassis.

#### 2a 1:00

The topology map shows that this blade is a VMware ESX server hosting 2 virtual machines.

#### 2b 1:11

Since it is also a member of this VMware cluster, we choose to explore that cluster to find another location to run the workload.

#### 2c 1:19

The new map indicates that there are two servers in the cluster.

#### 2d 1:22

By following the topology tree, we can see that the server ESX2 is running on a blade contained in a different chassis and is therefore unaffected by the switch outage.

#### 2e 1:34

We now have the choice to move individual virtual machines Or to select the ESX server and move all the workload.

#### 2f

Here, we choose to migrate all virtual machines from ESX1 to ESX2.

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#### 3a 1:59

Behind the scenes, IBM Virtualization Manager calls upon the VMware Virtual Center server to execute the necessary Vmotion tasks.

#### 3b 2:16

The topology map updates dynamically as the Vmotion migrations complete.

#### 3c

One of the key benefits of IBM Virtualization manager is the ability to link management of the physical hardware with the management of virtual machines. As we showed in this example, this linkage allows administrators to easily identify potential problems and take the necessary actions to prevent outages to key production workloads.