SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

Enterprise Standards and Best Practices for IT Infrastructure

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Name: T.I.Cassim
SLIIT ID: IT12051380
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vMotion

vMotion migration moves a powered-on virtual machine from one host to another.

vMotion can used to:

- improve overall hardware utilization.
- Allow continued virtual machine operation while accomodationg scheduled hardware downtime.
- Allow vSphere Distributed Resource scheduler (DRS) to balance virtual machines across hosts.

vMotion Requirements

Virtual machine meet following requirements

- A virtual machine must not have a connection to a virtual device (such as a CD-ROM or Floppy drive) with a local image mounted. if they are connected to a host, that will block the Motion migration. Solution stores those devices in a shared data store.
- A virtual machine must not have a connection to an internal vSwitch (vSwitch with zero uplink adapters)
- A virtual machine must not have CPU affinity configured

Source and destination hosts must require

- Visibility to all storage (fiber channel, iSCSI, or NAS) used by the virtual machine.
- Each host must have the Gigabit Ethernet network connection.
  - ➢ 4 concurrent vMotion migrations on a 1Gbps network
  - ➢ 8 concurrent vMotion migrations on a 10Gbps network
- Host must be plugged into the same physical network.
- VMotion works with standard switches or distributed virtual switches.
- Should have CPU compatibility. Otherwise we can't do the migration. Following is happen when there is no CPU compatibility. it says that the vMotion is blocking because, there is a CD-ROM is attached to the data store that is not accessible to the host.