

Sri Lanka Institute of Information Technology

Enterprise Standards and Best Practices for IT Infrastructure-2016

VMotion

Submitted by:

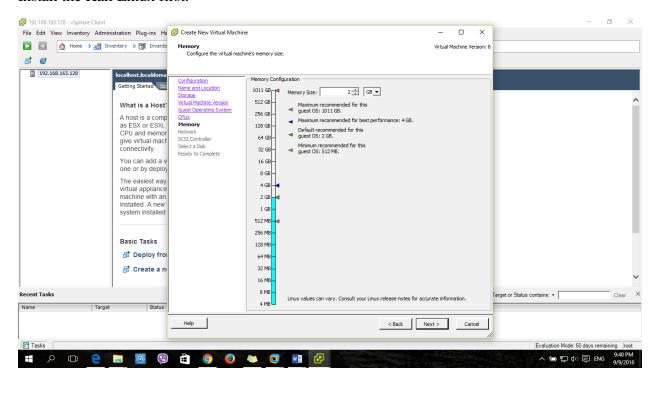
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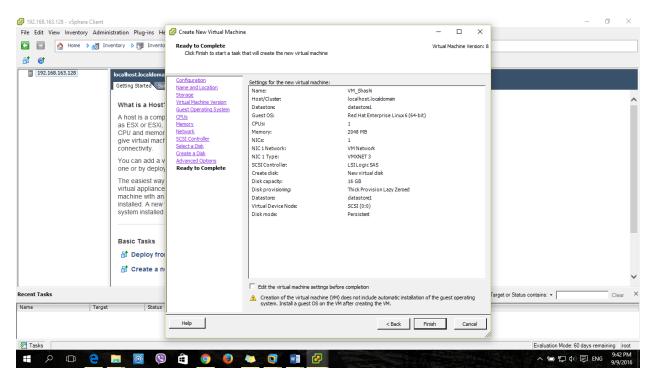
IT13037598: D.K.S. Hiddallaarchchi

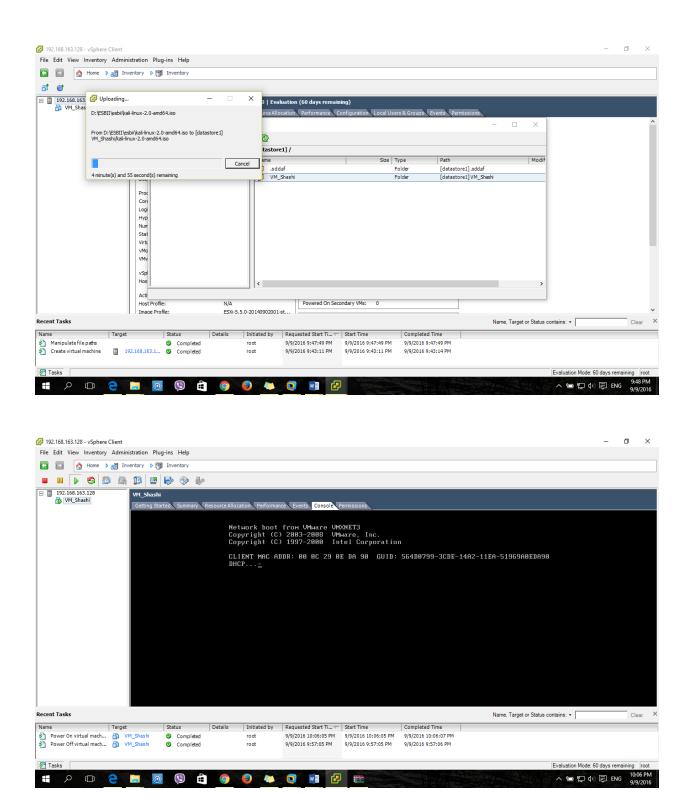
IT12088560: I.R. Edirisinghe

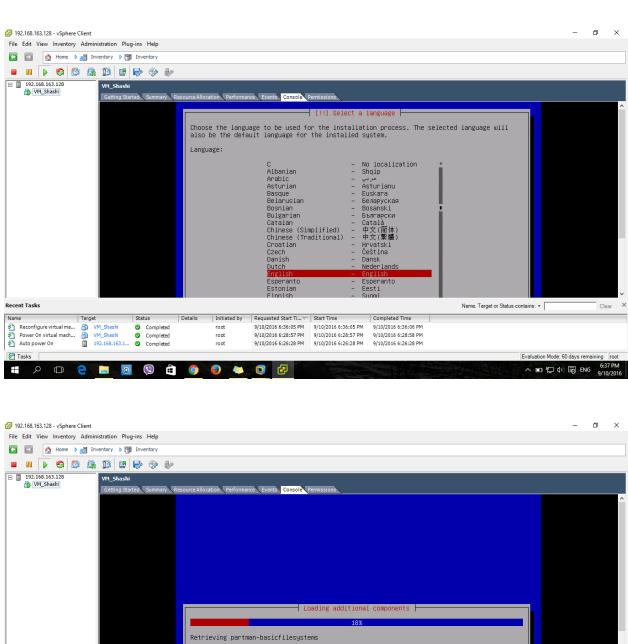
Step 1:

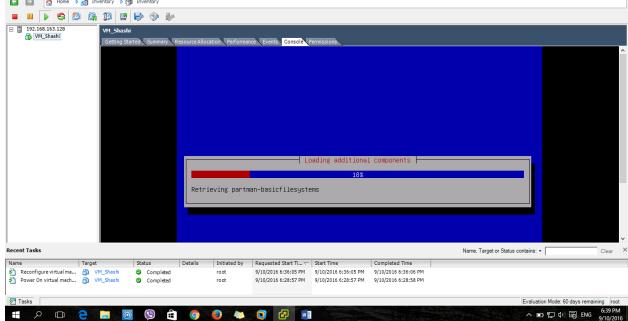
Install the Kali Linux first.











Step 2:

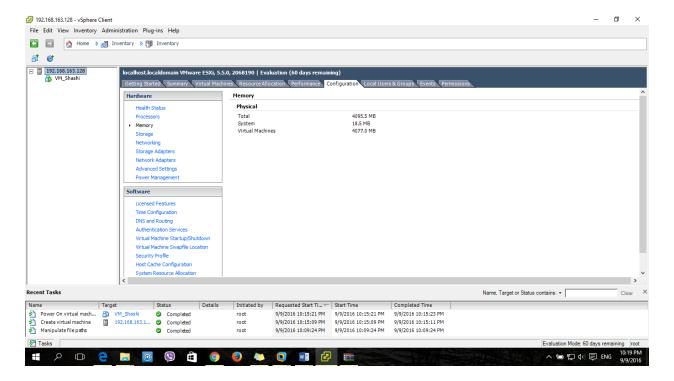
You can use the Migration wizard to migrate a powered-on virtual machine from one host to another using vMotion technology. To relocate the disks of a powered-on virtual machine, migrate the virtual machine using Storage vMotion.

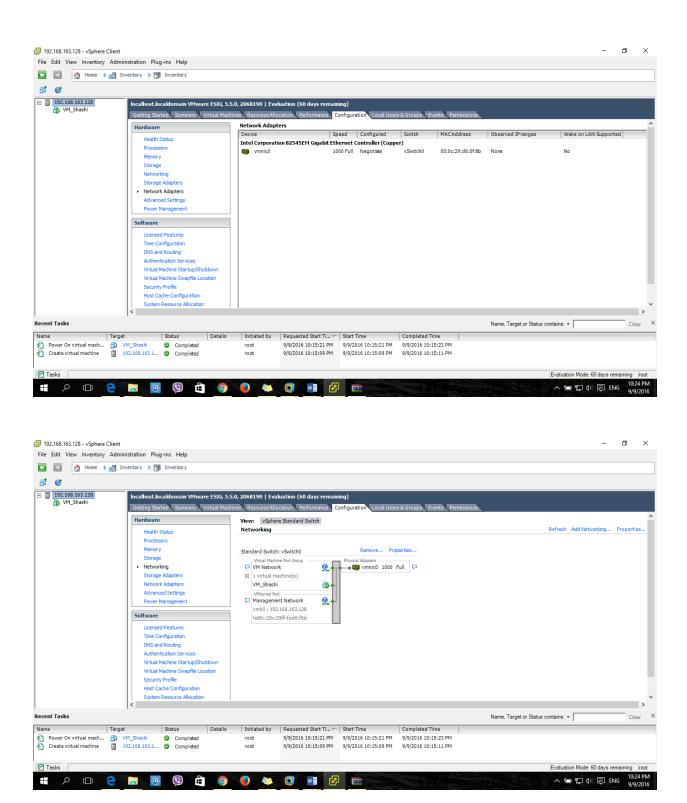
Prerequisites

Before migrating a virtual machine with vMotion, ensure that your hosts and virtual machines meet the requirements for migration with vMotion.

- CPU compatibility
- vMotion interface (minimum 1 Gb adapter)
- shared central mass storage
- same naming for virtual port groups
- sufficient resources on the target host
- at least one vSphere Essentials Plus license on the corresponding ESX host

Check the VM's configurations.





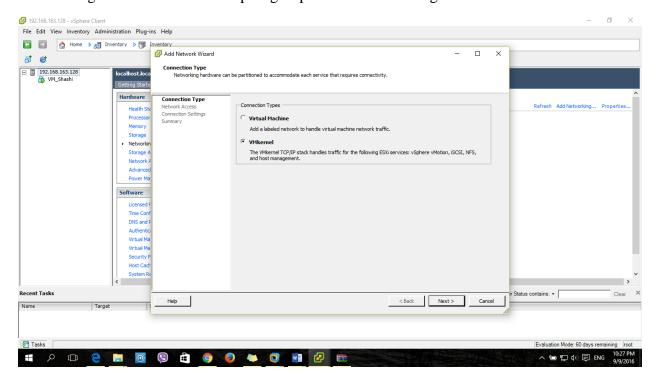
Step 3:

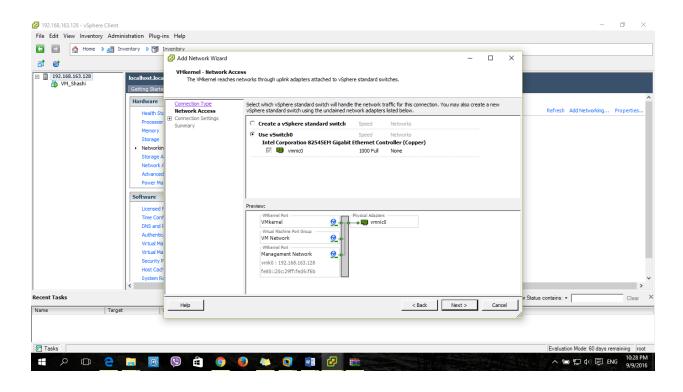
Network Configuration

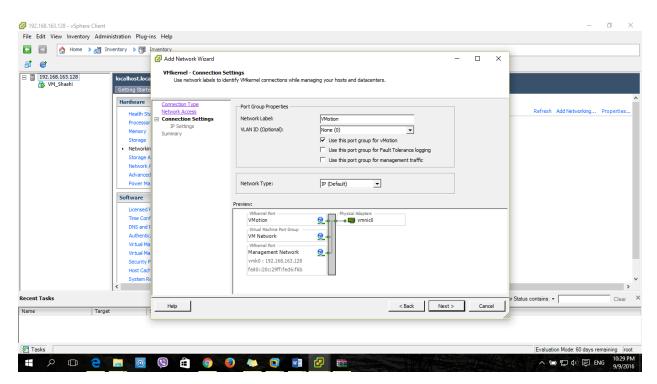
Configure the virtual networks on vMotion enabled hosts as follows:

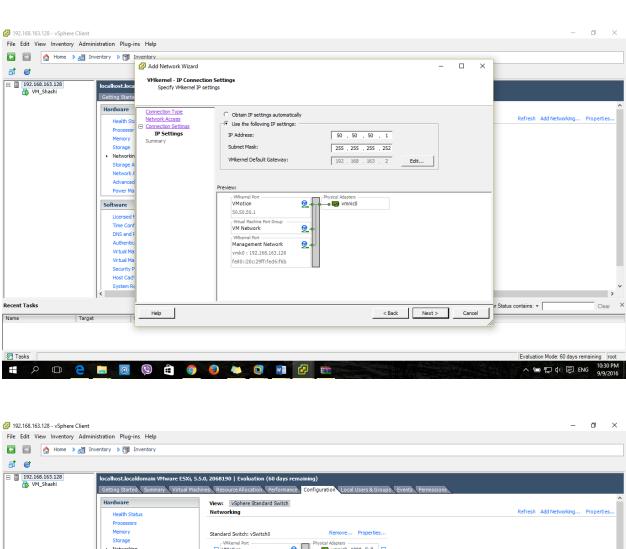
- ■On each host, configure a VMkernel port group for vMotion.
- ■Ensure that virtual machines have access to the same subnets on source and destination hosts.

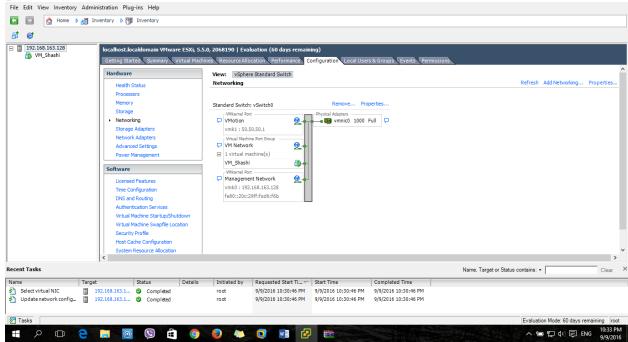
If you are using standard switches for networking, ensure that the network labels used for virtual machine port groups are consistent across hosts. During a migration with vMotion, vCenter Server assigns virtual machines to port groups based on matching network labels.











Summary

There are some issues with CPU affinity of the machines. VMotion cannot do successfully with the issues. We cannot use vMotion to migrate a virtual machine that is attached to a standard switch with no physical uplinks configured, even if the destination host also has a no-uplink standard switch with the same label.