
Lab Assignment 6

**Configuring V-Motion**

Dharmarathna I.D.U.T.

IT13038724

## What is v motion?

V motion stand for virtual movement or virtual motion. It allows move virtual servers and desktops from one physical server to another without having to shut down the virtual desktop or server. In here, we called physical devices as a bare metal server. For the v-motion we need to use ESXi server. In here we VMware ESXi software.

## Requirement

- CPU compatibility
- V-Motion interface
- 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

## V-Motion compatibility

- Each host must be correctly licensed
- Each host must meet the networking requirements
- Each host must meet shared storage requirements
- Each compatible CPU must be from the same family

## Steps of configuring v-motion

1. Go to the configuration tab and select Network Adapter in Hardware.
2. Then select the Networking in the hardware.
3. Then click Add Networking to create the vSwitch.
4. Select VMKernel and click on Next.
5. Making the network card or cards that have connected from one server to another and click Next.
6. Then select the Use the following IP settings. Click on Next.
7. Click Next.
8. Click Finish.
9. Then check whether entire system is working properly. For that, right click on the virtual machine and click Migrate
10. Then click on Next.
11. Select the target server where we will move the virtual machine and click Next.
12. Again click Next.
13. Then click on finish to start the migration.

## Pros of V-Motion

- Dynamic allocation services of the software allow you to allocate resources and memory while the processes are running.
- Security service of the software is flexible and allows you to implement user defined policy enforcement.
- The software supports all major operating systems as well as wide range of hardware.
- V-Motion allows to precisely identify the optimal placement for virtual machine.
- Virtual machines can be optimized within resource pools automatically.

## Cons of V-Motion

- There is no module for performance management on the software.
- Unlike its competitors, the software does not offer any reporting capabilities.
- Configuration features of the software do not include auto recovery, configuration history, and NIC teaming capabilities.
- There are no performance management features of adaptive analysis, memory compression, and continuous resource allocation on the software.