# VMware Clusters

https://campus.barracuda.com/doc/87196004/

Clusters are a group of hosts linked to be managed as a group. A cluster can act as a single, larger, more powerful host by sharing the resources of all hosts.

Some benefits of host clusters include:

- High Availability
- Sharing of Resources
- vMotion

#### High Availability

If a host in the cluster goes down, the VMs that resided on that host can be started up on one of the other hosts in the cluster.

#### Sharing of Resources

VMs can be load balanced across hosts to utilize efficiently the resources (CPU, Memory, etc.) of the cluster with VMware Distributed Resource Scheduler (DRS).

#### vMotion

Clustering hosts allows the use of vMotion, which is the live migration of VMs across hosts in the cluster without having to power them down.

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