# Host Failure Modelling

## Description

This report predicts resource utilization in case of a host failure.

## Report Parameters

| | |
|---|---|
| Scope: | Virtual Infrastructure |
| Number of failed hosts: | 1 |
| CPU utilization threshold: | 90.00% |
| Memory utilization threshold: | 80.00% |
| Business View migration scope: | |

## Summary

| Virtual Infrastructure | | Physical Resources | | Resources Required | |
|---|---|---|---|---|---|
| Number of clusters: | 2 | CPU: | 115.20 GHz | CPU: | 0.00 GHz |
| Number of hosts: | 4 | Memory: | 159.98 GB | Memory: | 5.00 GB |
| Number of datastores: | 13 | **Physical Resources after 1 hosts failure** | | | |
| Number of VMs: | 400 | CPU: | 57.60 GHz | | |
| Number of powered on VMs: | 8 | Memory: | 79.99 GB | | |

## Modelling Results

**VMs Migration Count**



VMs to Migrate   Unaffected VMs
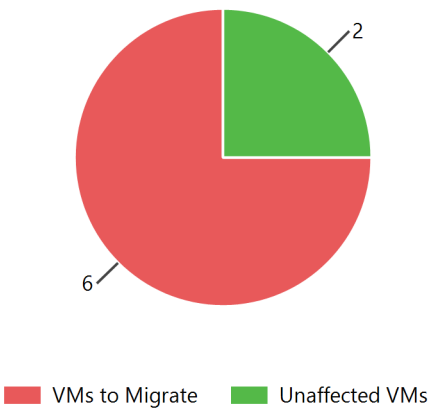
**Available CPU Resources (GHz)**
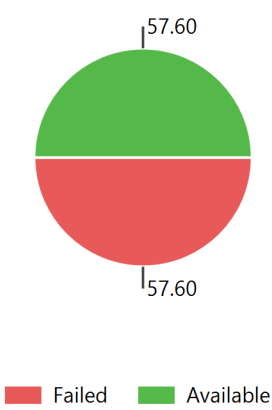


Failed   Available

**Available Memory Resources (GB)**



Failed   Available
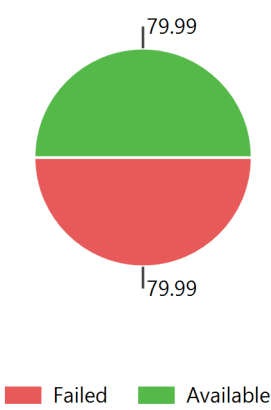
## Details

| Cluster | Average CPU Usage (%) | Average Memory Usage (%) | Predicted CPU Usage (%) | Predicted Memory Usage (%) | Failed Hosts | Affected VMs |
|---|---|---|---|---|---|---|
| CDP cluster | 6.97 | 46.25 | 13.95 | 92.50 | 1 | 6 |
| | | | | | prgtwesx01-virt.tech.local | 6 |
| CDP cluster 2 | 0.31 | 5.18 | 0.62 | 10.35 | 1 | |
| | | | | | prgtwesx04-virt.tech.local | |

## Recommendations

**CDP cluster:**

After 1 hosts failure, you will be above the defined 80% threshold for Memory by 5.00 GB but still within the capacity of the hardware

**CDP cluster 2:**

This Cluster has enough resources to maintain high availability after the failure of 1 hosts in this cluster