Capacity Planning

Description

This report predicts when resource utilization for selected objects in the infrastructure will reach the configured threshold.

Report Parameters

Scope:	Virtual Infrastructure
Datastores:	All Datastores
Analyze performance data for:	Past 6 months
Perform planning for:	Next 6 months
CPU utilization:	80.00%
Memory utilization threshold:	80.00%
Datastore space utilization threshold:	90.00%
Datastore read/write speed (max) threshold:	50 MBps

Summary

Virtual Infrastructure		Days Remaining		Resources Required	
Number of standalone hosts:	0	CPU:	7	CPU:	383.82 GHz
Number of hosts:	12	Memory:	11	Memory:	636.99 GB
Number of datastores:	39	Datastore space utilization:	0	Datastore capacity:	7.74 TB
Number of VMs:	859	Datastore read rate:	0		
Number of powered on VMs:	427	Datastore write rate:	0		

Top 5 Utilized Clusters and Standalone Hosts

Object Name	Bottleneck	Average Datastores Usage	Minimum Days Remaining
Cluster	Datastore space usage	43.12%	0
Labs Cluster	Memory usage	77.65%	50
Lada-Cluster	Read rate	117.12 MBps	0

Details

Selected Object: Cluster

Physical Resources

CPU (GHz)	CPU Sockets	CPU Cores	Memory (GB)	Datastore Capacity (GB)
326.26	12	144	2295.94	118647.50

Resource Usage

Resources	Memory Usage	CPU Usage	Datastore Used Space	Read Rate	Write Rate
Current usage	77.48%	80.39%	43.12%	310.22 MBps	37.97 MBps
Average usage	75.88%	74.64%	43.12%	7.78 MBps	10.62 MBps
Days remaining	∞	18	0	0	11

Recommendations

To keep capacity under **80** % for the next **6** months for CPU: **Increase available CPU resources by 113 GHz**

To keep datastore usage under **50** MBps for the next **6** months for Memory: **Relocate most IO-intensive VMs from the problematic datastore(s)**.

Or add **2** hosts like **pdc.tech.local**

To keep capacity under **90** % for the next **6** months for datastores:

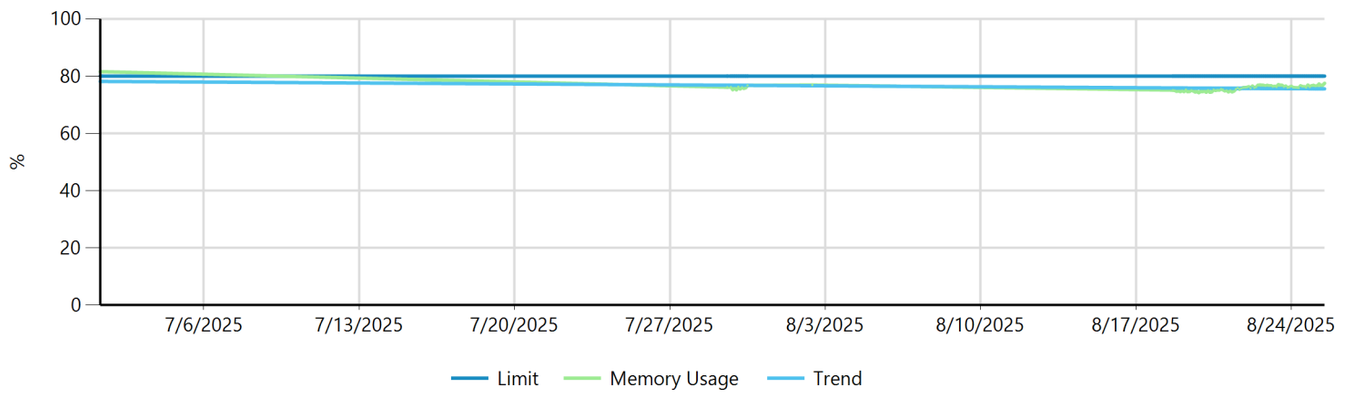
Increase available free space for datastore **pdc-SSD** by **4724.5 GB**

Increase available free space for datastore **pdc-ds2-SSD** by **2157.5 GB**

Increase available free space for datastore **pdc-ds3-SSD** by **200.4 GB**

Performance Trends

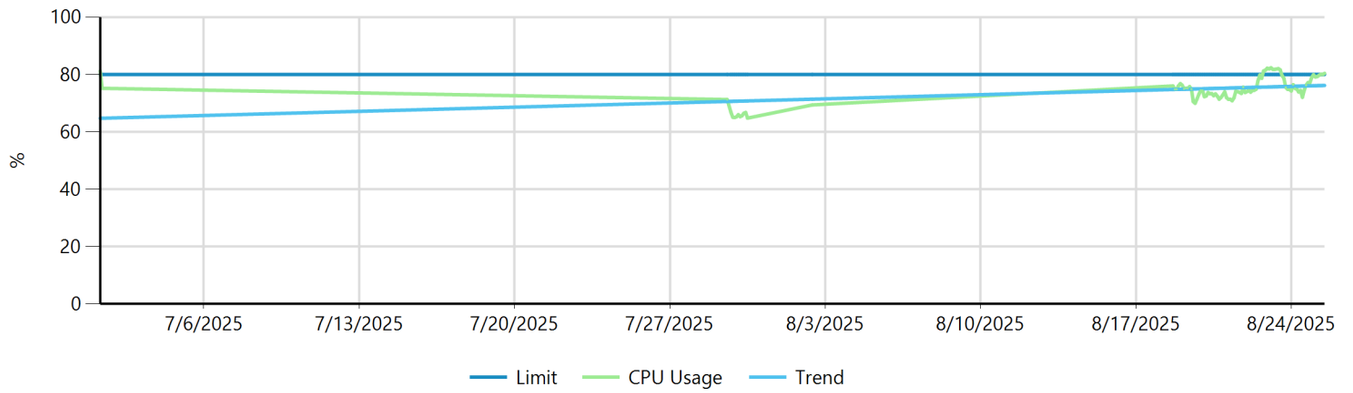
Memory Usage



Memory Usage (%)

Object Name	Minimum	Maximum	Average	Std.Deviation	Days Left
Cluster	74.24	81.54	75.88	1.16	∞

CPU Usage



CPU Usage (%)

Object Name	Minimum	Maximum	Average	Std.Deviation	Days Left
Cluster	64.77	82.33	74.64	4.45	18