Client Team,

Attached are selected enterprise and business unit reports from your storage reporting for the week ending 06/11/2022. There is a slightly increased workload on VSIPUREFLASH32 and VSIPUREFLASH17 from the Foxe4 jb92bs* hosts this week. This contributed to total enterprise IOPS hitting an all-time high 295,000 IOPS on Monday, with excellent storage performance across the board. Slow and steady growth continues on Isilons this week, except VSIISILON01 where used storage decreased by 44 TiB. We continue to see significant increases in used storage on cohesityvsi01 (+143 TiB) and decreases on cohesityvsi01 (-119 TiB). Starting a week after the upgrade, cohesityhct01 had been reporting as an 8 or 9-node cluster until this week where it is reporting as a 10-node cluster again. Data Domain utilization has also increased by 224 TiB this week, getting great data reduction and increasing overall data reduction on the arrays. Memory utilization in the VMware cluster stg-prod-hwf-westcld01 has jumped from 39% to 69% this week, with one host up to 93% memory utilization. This cluster should be reviewed, and action taken as needed. For additional information, please login to your portal or see below for details. Have a great week!

Weekly Observations

- 27.1 PB Usable (20.5 PB Raw) 20 arrays
 - o 55.2% Used
 - o 59.5% Allocated
 - o 2.5 TB Orphaned
 - o 4 arrays with red light alerts this week
 - 4 arrays with Hard Quota Threshold Exceeded
 - 2 arrays with 1 Failed Drives
 - 1 array with Number of Quotas Exceeding HARD Limit Thresholds
 - Pool/data store alerts
 - 10 data stores flagged for being over 80% Used
 - 2 data stores over 100% allocated and over 80% Used review these pools first and expand as needed
 - vsi-pure-pjcm01-05
 - NW-VCTS-SIVT-02
 - No pools over 100% allocated
 - 2 data stores over 100% allocated
- Virtual/VMware Summary
 - o 92 clusters, 514 Physical Hosts, 27371 VMs
 - o 585 Data stores (+12)
 - Avg Resource Utilization
 - CPU 26.1%Memory 34.8%Disk 26.5%

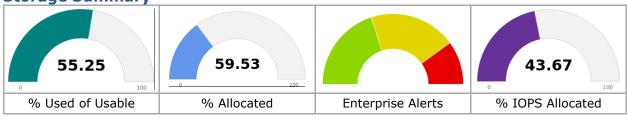
Cohesityhct01 - Utilization trend since the upgrade in June



Application Performance Trend



Storage Summary



Enterprise Storage At a Glance

Raw Disk	Total Usable	Total Used		Effective Free Space	ateu		Total Hosts	Total Snap	Orphans	Dedupe
21,469, 149.87	28,453, 308.28	15,719,0 97.69	12,734, 210.60	12,396,0 00.00	59.53	24	316	43,17 2.49	57 (2,537 GiB)	6,162,64 3.72

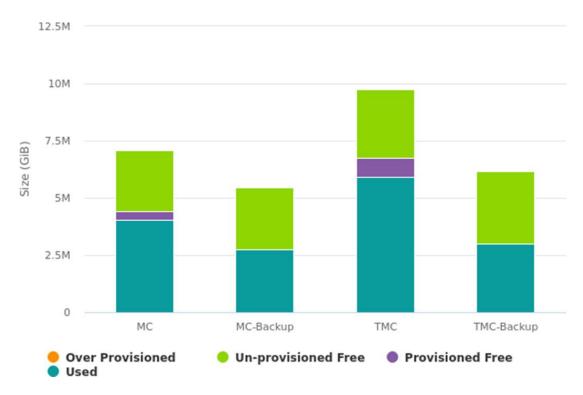
Enterprise Monthly Performance & Growth (July)

Group	Device Name	sum(Usable Growth)	↓ sum(Used Growth)	sum(Free Growth)	sum(IOPS Growth)
☐ DATA_DOMAIN(2)		502,011.85	581,385.00	-79,373.15	0.00
		215,717.8	295,343.4	-79,625.6	0.00
		286,294.05	286,041.6	252.45	0.00
■ PURE_DEVICE(7)		44,259.35	46,897.72	-2,638.35	-8,328.42
		1,081.11	22,724.76	-21,643.63	-3,736.22
		5,970.33	12,623.47	-6,653.14	922.33
		21,950.12	4,395.31	17,554.81	-2,406.84
		0.00	3,640.48	-3,640.47	0.00
		6,637.66	2,878.29	3,759.37	-934.88
		-6,863.18	687.44	-7,550.63	-2,860.62
		15,483.31	-52.03	15,535.34	687.81
☐ COHESITY_BACKUP(2)		-802,768.92	-123,727.58	-679,041.34	0.00
		-181,955.71	735,210.05	-917,165.76	0.00
		-620,813.21	-858,937.63	238,124.42	0.00
☐ ISILON_DEVICE(9)		-9,345.63	-153,536.47	144,190.84	-0.58
		0.00	29,362.58	-29,362.58	-229.27
		0.00	17,585.92	-17,585.92	311.22
		0.00	6.484.43	-6.484.43	-42.34

Enterprise Performance Trend

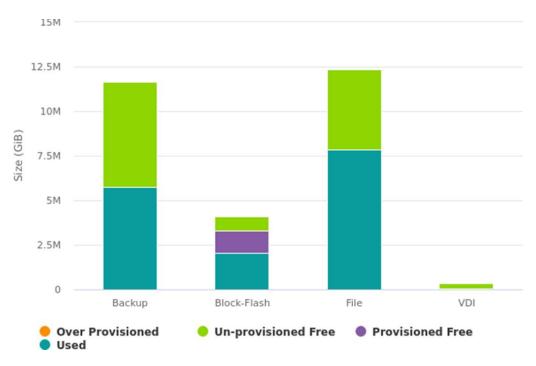


Current Capacity by Data Center



Data Center	Total Used	Provisioned Free	Unprovisioned Free	Over-Provisioned Free
MC	4021189.53	411546.95	2652455.95	0.0
MC-Backup	2757727.14	0.0	2716548.64	0.0
TMC	5933851.16	807436.74	2994401.61	0.0
TMC-Backup	3006329.86	0.0	3151820.7	0.0

Current Capacity by Classification



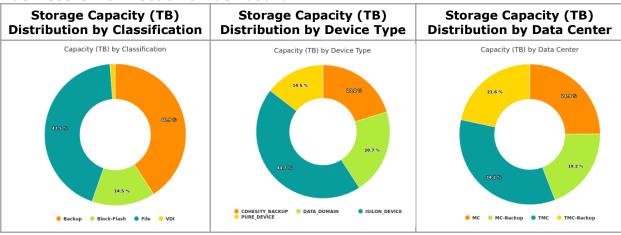
Classification	Total Used	Provisioned Free	Unprovisioned Free	Over-Provisioned Free
Backup	5764057.0	0.0	5868369.34	0.0
Block-Flash	2064623.95	1218983.69	830112.65	0.0
File	7832821.69	0.0	4533387.12	0.0
VDI	57595.05	0.0	283357.79	0.0

Business Unit Storage Over Utilization Pool/Datastore Alerts: 10

Source	Array Name	Categ ory	Applic ation	Device Type	Pool Name	Utilizati on %	Used (GiB)	Usable (GiB)	Allocat ed (GiB)	Alloca ted %
Datasto re	VSIVCE NTER.ct .org	N/A	N/A	N/A	NW-BHFS- NJTX-02	80.02%	1489.86	1861.7 5	2849.84	153.07 %
Datasto re	SIVCEN TER.ct. org	N/A	N/A	N/A	LocalVSIe CTFS-mc- rds-esin04	81.21%	302.52	372.5	303.67	81.52 %
Datasto re	SIVCEN TER.ct. org	N/A	N/A	N/A	LocalVSIe CTFS-mc- rds-esin01	81.21%	302.52	372.5	303.67	81.52 %
Datasto re	SIVCEN TER.ct. org	N/A	N/A	N/A	LocalVSIe CTFS-mc- rds-esin02	81.21%	302.51	372.5	303.66	81.52 %
Datasto re	VSIVCE NTER.ct .org	N/A	N/A	N/A	LocalVSIe CTFS-tmc- rdsnp- esin01	81.29%	302.82	372.5	303.82	81.56 %

Source	Array Name	Categ ory	Applic ation	Device Type	Pool Name	Utilizati on %	Used (GiB)	Usable (GiB)	Allocat ed (GiB)	Alloca ted %
Datasto re	VSIVCE NTER.ct .org	N/A	N/A	N/A	LocalVSIe CTFS-tmc- rds-esin06	81.38%	303.15	372.5	304.1	81.64 %
Datasto re	VSIVCE NTER.ct .org	N/A	N/A	N/A	LocalVSIe CTFS-tmc- rds-esin05	81.35%	303.03	372.5	303.73	81.54 %
Datasto re	VSIVCE NTER.ct .org	N/A	N/A	N/A	LocalVSIe CTFS-tmc- rds-esin01	81.37%	303.12	372.5	304.01	81.61 %
Datasto re	VSIVCE NTER.ct .org	N/A	N/A	N/A	NJY-CTFS- ORTX-01	82.38%	1533.66	1861.7 5	1560.93	83.84 %
Datasto re	VSIVCE NTER.ct .org	N/A	N/A	N/A	NYM-pure- klpk01-05	84.26%	25884.6 7	30719. 75	40576.6 6	132.09 %

Business Unit Executive Dashboard



Virtual Machine Summary

Number of VCenters: 16 Number of Clusters: 92 Number of ESX Hosts: 514

Number of Virtual Machines: 27371

Average Resource Utilization Compute: 26.15% 0 0 Memory: 34.78% o Disk: 26.51%

These VM's have red light alerts:

ptk-mc-p1b1-vc.ct.org: 1 Duplicate VMs - See Yellow light Alerts for Specific Duplicate

ptk-mc-p1b2-vc.ct.org: 7 Duplicate VMs - See Yellow light Alerts for Specific Duplicate 0

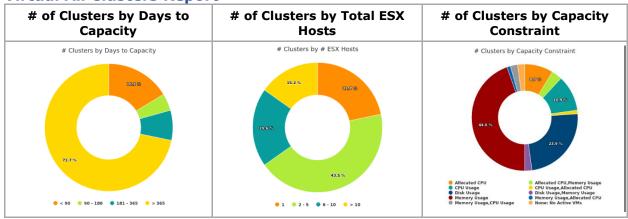
ptk-mc-p1b3-vc.ct.org: 2 Duplicate VMs - See Yellow light Alerts for Specific Duplicate Names

- SIVCENTER.ct.org: ESX Hosts w/different speeds in same cluster, Cluster =>sic-prodint-cerncld01 mhz speeds in cluster = 2095 to 2594 Speed Pct Difference = 23.8%
- VSIVCENTER.ct.org: ESX Hosts w/different speeds in same cluster, Cluster => vsiprod-ptk-ecw01 mhz speeds in cluster = 1995 to 2694 Speed Pct Difference = 35.0%
- VSIVCENTER.ct.org: ESX Hosts w/different speeds in same cluster, Cluster => vsiprod-ptk-cerncld01 mhz speeds in cluster = 2095 to 2793 Speed Pct Difference = 33.3%
- VSIVCENTER.ct.org: ESX Hosts w/different speeds in same cluster, Cluster => vsiprod-ptk-linux01 mhz speeds in cluster = 1995 to 2594 Speed Pct Difference = 30.0%
- VSIVCENTER.ct.org: ESX Hosts w/different speeds in same cluster, Cluster => vsiprod-ptk-sql01 mhz speeds in cluster = 1995 to 2594 Speed Pct Difference = 30.0%
- VSIVCENTER.ct.org: ESX Hosts w/different speeds in same cluster, Cluster => vsiprod-ptk-clin01 mhz speeds in cluster = 1995 to 2594 Speed Pct Difference = 30.0%
- VSIVCENTER.ct.org: 1 VMs with vCPU > ESX Host CPUs | See Yellow light Alerts for Details
- VSIVCENTER.ct.org: 9 Duplicate VMs See Yellow light Alerts for Specific Duplicate Names
- VSIVCENTER.ct.org: (1) Duplicate Data Store Name(s) Found | See Yellow Light Alerts for Specific Duplicate Names
- VSIVCENTER.ct.org: Cluster VM Build Capacity = 0, Resource Constraint = Disk Usage, Cluster Name = si-prod-mef-vrtx01
- VSIVCENTER.ct.org: Cluster VM Build Capacity = -22, Resource Constraint = Allocated CPU, Cluster Name = nym-prod-dw-clin01
- VSIVCENTER.ct.org: Cluster VM Build Capacity = 0, Resource Constraint = Disk Usage, Cluster Name = bs-prod-ofk-vrtx01
- VSIVCENTER.ct.org: Cluster VM Build Capacity = 0, Resource Constraint = Disk Usage, Cluster Name = esxi-rahm-und01.ct.org
- ptk-hh-p1b1-vc.ct.org: 4 Duplicate VMs See Yellow light Alerts for Specific Duplicate Names
- ptk-hh-p1b2-vc.ct.org: 7 Duplicate VMs See Yellow light Alerts for Specific Duplicate Names
- ptk-hh-p1b3-vc.ct.org: 13 Duplicate VMs See Yellow light Alerts for Specific Duplicate Names
- VSIVCENTER.ct.org: 1 Clusters Unable to support full workload in N-1 Configuration
 vsi-prod-nyc-citydwb01,



ESX Host Name	Total VM's	Avg % CPU Util	Avg GHz/CPU	Total Memory (GiB)	Avg % Memory Util	VM Build Capacity
	18	14	2.10	254.69	93%	-2
	17	14%	2.10	254.69	86%	-1
	14		2.79	1,023.47	56%	11

Virtual All Clusters Report



Have a blessed, safe week!

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