

SAN-Engineer

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Storage and SAN Performance

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VMAX Thin Provisioned Frame Performance analyze

- A.The key performance indicator is IO Density and they should looks at it 2 ways.
- B. Relative numbers. If EFD is > than FC and > SATA, then data placement and FASTVP is being effective.
- C. And then look at the IO Density per tier. When EFD or FC gets too high, they need to add spindles. If SATA is too high and there is space left in FC and EFD, then they probably have some policy adjustments needed or something else going on.
- D. The absolute planning or threshold number will vary by drive size, speed, etc.

Format for Reporting

`	Location	Pool Name	Total Capacity in TB	Allocated %	Allocated TB	Subscribed %
1234- VMAX	Site X		20.0625	21	4.213125	0
		EFD				
		FC_VP_Pool1	200.6633301	4	8.026533203	58
		SATA_VP_Pool1	383.5470703	6	23.01282422	0
Total Physical Capacity Usage on the Frame					35.25248242	
Total Usable Capacity Available on Frame			604.2729004			
Storage Subscription(Provisioned) to the host					116.3847314	
Thick Subscription Remaining on the Frame(if Less than 50TB Value is Red)					487.8881689	IF this Value
Is FC Pool Usage(Real Data) more than 75% Storage					4	IF this is Rec SATA
Array Name	Location	Pool Name	Total Capacity in GB	Allocated %	Allocated TB	Subscribed %

4321-VMAX	Site Y	EFD	5.015625	86	4.3134375	0
		FC_VP_Pool1	34.2578125	61	20.89726563	389
		SATA_VP_Pool1	119.859375	11	13.18453125	0
Total Physical Capacity Usage on the Frame					38.39523438	
Total Usable Capacity Available on Frame			159.1328125			
Storage Subscription(Provisioned) to the host					133.2628906	
Thick Subscription Remaining on the Frame(if Less than 50TB Value is Red)					25.86992188	IF this Value
Is FC Pool Usage(Real Data) more than 75% Storage					61	IF this is Rec SATA

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