APTARE®

APTARE Helps Organizations Plan for Future Infrastructure Needs

Complete visibility into the storage environment helps administrators predict future storage needs, avoiding over-provisioning and emergency buys.

Data growth is fast out-pacing staffing, putting a major strain on available resources and budget. The need to do more with less has never been stronger. Knowing exactly what is on your network and how much capacity the organization will need in the future helps administrators meet the storage needs of the business in an effective and efficient manner. Only then can administrators begin efficiency and optimization strategies to get the most out of existing resources.

Unfortunately, most organizations have no idea how much capacity they have, how much storage users are currently using, and how much capacity the organization will need in the future. Growth rates are calculated on the fly using purchase orders, manual spreadsheets, and outdated, irrelevant usage trends. Lack of visibility into cloud infrastructures adds additional complexity. This results in rough estimates at best and leads to over-provisioning and emergency buys—erratic and costly procurement strategies.

The uncertainty even creates tension between the storage team and application teams. With application teams constantly calling for "more power" and the storage team having to

Key Challenges

- Lack of insight into accurate storage needs
- Unpredictable capacity requirements
- Over-provisioning and emergency buys increase storage costs
- Efficiency and utilization strategies require visibility into current and future capacity needs

Why APTARE?

- Provides complete visibility into current capacity, usage, and forecasts
- Automates storage data collection
- Provides visibility into cloud and hybrid cloud environments
- Includes easy-to-read dashboards, 200+ standard reports, and a report template designer for customization

Array Allocated Linear Forecast

| Apr 07, 2011 12:00:00AM - Apr 05, 2012 01:39:59PM
Array: AMS500 Group by: Month with 8 Forecasting Periods
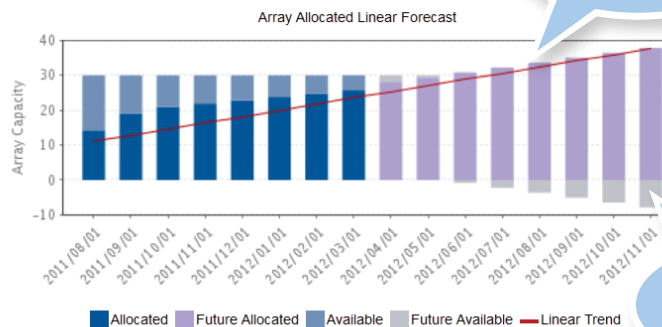
More storage needed in June (red trend line crosses Capacity total)

Here is how much storage you will need to purchase (gray area)

*All values in (GB)

FIGURE 1: When will you need to buy more storage?

APTARE Provides Visibility into Cloud and Hybrid Infrastructures

Organizations are eschewing the exploding capex and opex costs of storage by migrating to cloud and hybrid cloud infrastructures. Paying a vendor a set cost per gigabyte makes sense in the long run both economically and operationally as cloud enables organizations to meet dynamic on demand capacity needs. However, organizations need to assess what storage can be migrated to the cloud and what data needs to be stored in house for data protection, security, and availability needs.

APTARE trending and forecasting can give organizations the hard cost-benefit data they need to make intelligent cloud migration decisions. Using proprietary algorithms and unique storage cost indicators, APTARE puts a financial figure on the cost of on-premise and cloud capacities. Organizations can then determine storage needs for applications based on accurate financial data, so stakeholders can truly understand the cost of storage per project while ensuring the best decision is made.

validate and prioritize needs, seemingly contradictory goals come into conflict. The tension is exasperated even more when decisions are made without any hard data and storage usage information and forecasting seems arbitrary.

Visibility Into Storage Capacity, Usage, and Needs

APTARE StorageConsole CapacityManager gives administrators complete visibility into storage environments, enabling accurate trending and forecasting of capacity needs across the organization. APTARE automatically tracks storage usage in real time and stores it in an extensive database that can be analyzed and exported as various reports. Using a proprietary algorithm, the solution accurately predicts storage needs in the near term and future, allowing organizations to plan efficiently and avoid surprises.

In addition to more than 200 out-of-the-box reports and dashboards, the solution includes a unique report template designer to fit any organization's forecasting needs. Data collection is automatic and analysis and reports can be scheduled or executed on demand, streamlining the forecasting process while allowing administrators to refocus their efforts away from administration and more on strategy.

Capacity Forecast

Server Group=Global Storage Infrastructure | Dec 05, 2012 11:00:00PM - Dec 01, 2013 10:59:59PM

Total Row(s): 26

Device	Volume	# Users	# Files	Used	Presented	Util %	Capacity	Days	Date	Description
					Current			Estimated Out of Space		
aptarenbu-win1	C	1	70,882	33,991.77 MB	30,795.43 MB	55.00%	61,338.00 MB	2,500,000	Mar 11, 8858 11:04:16AM	
	B		0	189,253.90 MB	0.00 MB	37.00%	511,997.00 MB	2,500,000	Mar 11, 8858 11:04:16AM	
hds-sun1-test	Root	10	35,285	63,164.36 MB	89,652.95 MB	92.00%	68,411.02 MB	2,500,000	Mar 11, 8858 11:04:16AM	
optimus	vol9	1	3,000	19.97 MB	57.65 MB	3.00%	640.00 MB	634,908	Sep 29, 3751 11:04:16AM	
	vol3	1	3,000	19.95 MB	57.65 MB	12.00%	160.00 MB	143,416	Jan 31, 2406 11:04:16AM	
	vol20	1	3,000	19.95 MB	57.65 MB	9.00%	224.00 MB	208,948	Jul 03, 2585 11:04:16AM	
	vol16	1	3,000	19.95 MB	57.65 MB	12.00%	160.00 MB	143,416	Jan 31, 2406 11:04:16AM	
	vol17	1	3,000	19.95 MB	57.65 MB	12.00%	160.00 MB	143,416	Jan 31, 2406 11:04:16AM	
	vol4	1	3,000	19.95 MB	57.65 MB	12.00%	160.00 MB	143,416	Jan 31, 2406 11:04:16AM	
	vol22	1	3,000	19.95 MB	57.65 MB	9.00%	224.00 MB	208,948	Jul 03, 2585 11:04:16AM	
	vol15	1	3,000	19.95 MB	57.65 MB	12.00%	160.00 MB	143,416	Jan 31, 2406 11:04:16AM	
	vol2	1	3,000	19.95 MB	57.65 MB	12.00%	160.00 MB	143,416	Jan 31, 2406 11:04:16AM	
	vol18	1	3,000	19.95 MB	57.65 MB	12.00%	160.00 MB	143,416	Jan 31, 2406 11:04:16AM	
	vol1	1	3,000	19.95 MB	57.65 MB	12.00%	160.00 MB	143,416	Jan 31, 2406 11:04:16AM	
	vol19	1	3,000	19.95 MB	57.65 MB	12.00%	160.00 MB	143,416	Jan 31, 2406 11:04:16AM	
	vol21	1	3,000	19.95 MB	57.65 MB	9.00%	224.00 MB	208,948	Jul 03, 2585 11:04:16AM	
	vol14	1	3,000	19.95 MB	57.65 MB	12.00%	160.00 MB	143,416	Jan 31, 2406 11:04:16AM	
	vol5	1	3,000	19.95 MB	57.65 MB	12.00%	160.00 MB	143,416	Jan 31, 2406 11:04:16AM	
	vol8	1	3,000	19.95 MB	57.65 MB	12.00%	160.00 MB	143,416	Jan 31, 2406 11:04:16AM	
	vol11	1	3,000	19.95 MB	57.65 MB	6.00%	320.00 MB	307,248	Aug 22, 2854 11:04:16AM	
	vol0	1	17,184	95.21 MB	232.40 MB	39.00%	241.86 MB	150,172	Jul 31, 2424 11:04:16AM	
	vol13	1	3,000	19.95 MB	57.65 MB	12.00%	160.00 MB	143,416	Jan 31, 2406 11:04:16AM	
	vol12	1	3,000	19.95 MB	57.65 MB	12.00%	160.00 MB	143,416	Jan 31, 2406 11:04:16AM	
	vol10	1	3,000	19.95 MB	57.65 MB	6.00%	320.00 MB	307,248	Aug 22, 2854 11:04:16AM	
	vol7	1	3,000	19.95 MB	57.65 MB	12.00%	160.00 MB	143,416	Jan 31, 2406 11:04:16AM	
	vol6	1	3,000	19.95 MB	57.65 MB	12.00%	160.00 MB	143,416	Jan 31, 2406 11:04:16AM	

FIGURE 2: When will you run out of space?

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Dynamic Provisioning Pool Summary
Arrays=All Storage Arrays | Jun 04, 2013 10:54:30AM
Total Row(s): 39

| | | | Physical | | | | | | Virtual | | | | | |
Pool ID	Storage Array	Used	# DP Pool VOLs	# Array Groups	Capacity of DP Pool	Consumed	Free In Pool	# DP VOLs	Capacity of DP VOLs	Overprovision	Allocated	Threshold1	Threshold2	Status
DP 100	ETCFRRDHDATA2_28123		30		36,921.12 GB	0.12 GB	36,920.99 GB	1	0.10 GB	0.00%	0.10 GB	70%	80%	Normal
DP 2	ETCFDHVTP6_18454		702		375,513.84 GB	366,481.99 GB	9,031.85 GB	444	366,476.67 GB	97.59%	252,941.86 GB	95%	80%	Over Threshold
DP 1	ETCFRRDHVTP2_28052		224		102,630.20 GB	95,140.54 GB	7,489.66 GB	99	101,376.08 GB	98.78%	101,376.08 GB	70%	80%	Over Threshold
DP 11	ETCFUSPVCDHDATA6_28521		128		103,048.23 GB	88,563.56 GB	14,498.86 GB	3,242	114,951.17 GB	111.56%	97,898.04 GB	70%	80%	Over Threshold
DP 1	ETCFDHVTP6_18454		72		70,591.09 GB	57,170.53 GB	13,420.56 GB	71	57,170.01 GB	80.99%	57,170.01 GB	95%	80%	Over Threshold
DP 21	ETCFUSPVCDHDATA4_28093		158		127,201.10 GB	94,887.97 GB	32,313.13 GB	3,627	118,842.69 GB	93.43%	0.00 GB	70%	80%	Over Threshold
DP 12	ETCFUSPVCDHDATA4_28093		128		103,048.23 GB	75,713.16 GB	27,335.07 GB	3,208	113,680.19 GB	110.32%	0.00 GB	70%	80%	Over Threshold
DP 2	ETCFRRDHVTP3_48053		276		590,629.51 GB	425,045.46 GB	165,584.06 GB	645	646,158.55 GB	109.40%	172,040.15 GB	70%	80%	Over Threshold
DP 11	ETCFUSPVCDHDATA4_28093		128		103,048.23 GB	67,499.66 GB	35,548.57 GB	3,594	121,724.31 GB	118.12%	0.00 GB	70%	80%	Normal
DP 4	ETCFRRDHVTP3_48053		24		61,615.89 GB	39,926.78 GB	21,689.10 GB	176	87,500.13 GB	142.17%	45,168.11 GB	70%	80%	Normal
DP 2	ETCFRRDHVTP2_28052		920		470,958.71 GB	290,721.83 GB	180,236.89 GB	393	394,247.63 GB	83.71%	345,095.59 GB	70%	80%	Normal
DP 5	ETCFRRDHVTP2_28052		396		132,009.28 GB	79,894.71 GB	52,114.58 GB	125	123,908.11 GB	93.86%	123,908.11 GB	70%	80%	Normal
DP 22	ETCFUSPVCDHDATA4_28093		128		103,048.23 GB	56,140.42 GB	46,907.81 GB	1,863	136,489.95 GB	132.45%	0.00 GB	70%	80%	Normal
DP 1	KCCUSP_V@172.16.1.123		32		12,850.28 GB	6,722.87 GB	6,127.41 GB	130	7,045.03 GB	54.82%	7,045.03 GB	75%	80%	Normal
DP 41	USP_V@10.177.153.116		4		7,310.87 GB	3,777.99 GB	3,532.88 GB	93	6,319.11 GB	86.43%	6,317.02 GB	70%	80%	Normal
DP 41	USP_V@10.177.153.115		4		7,310.87 GB	3,203.98 GB	4,106.89 GB	78	7,281.75 GB	99.60%	7,280.01 GB	70%	80%	Normal
DP 4	KCCUSP_V@172.16.1.123		224		52,301.07 GB	22,783.15 GB	29,517.92 GB	423	25,700.21 GB	49.14%	25,700.21 GB	75%	80%	Normal
DP 0	KCCUSP_V@172.16.1.123		32		12,850.28 GB	5,544.66 GB	7,305.62 GB	124	6,311.08 GB	49.11%	6,311.08 GB	75%	80%	Normal
DP 4	PCCUSP_V@172.16.1.123		152		35,438.73 GB	13,060.77 GB	22,377.96 GB		N/A	0.00%	15,274.36 GB	75%	80%	Normal
DP 1	ETCFRRDHVTP3_48053		48		102,714.86 GB	36,394.44 GB	66,320.42 GB	50	51,200.04 GB	49.85%	30,720.03 GB	70%	80%	Normal
DP 10	ETCFUSPVCDHDATA4_28093		30		24,148.85 GB	8,529.04 GB	15,619.82 GB	31	15,872.01 GB	65.73%	0.00 GB	70%	80%	Normal
DP 0	PCCUSP_V@172.16.1.123		40		16,061.39 GB	5,647.69 GB	10,413.70 GB		N/A	0.00%	5,644.05 GB	75%	80%	Normal
DP 2	KCCUSP_V@172.16.1.123		32		12,850.28 GB	4,390.56 GB	8,459.72 GB	84	10,288.00 GB	80.00%	10,288.00 GB	85%	90%	Normal
DP 1	PCCUSP_V@172.16.1.123		40		16,061.39 GB	5,182.82 GB	10,878.57 GB		N/A	0.00%	8,523.58 GB	75%	80%	Normal
DP 21	ETCFUSPVCDHDATA6_28521		128		103,048.23 GB	28,976.43 GB	74,134.43 GB	4,391	98,597.18 GB	95.68%	35,366.35 GB	70%	80%	Normal
DP 101	ETCFRRDHDATA2_28123		120		147,696.53 GB	37,634.99 GB	110,065.27 GB	1,728	128,577.14 GB	87.05%	128,577.14 GB	70%	80%	Normal
DP 102	ETCFRRDHDATA2_28123		120		147,696.53 GB	37,629.17 GB	110,068.83 GB	1,728	128,577.14 GB	87.05%	128,577.14 GB	70%	80%	Normal

FIGURE 3: When will you run out of space?

"Every organization and its storage needs are unique. APTARE collects hundreds of data sets across the entire environment in real time, organizes it, puts it in an easily digestible form, and turns that information into action," said Walt Duflock, Vice President of Marketing, APTARE. "The solution is designed to be completely customizable to fit your storage reporting needs."

Proactively Meet the Storage Needs of the Business

Accurate trending and forecasting enables predictive storage costs for business planning. Administrators and business unit managers know exactly what the current capacity is, what is needed, and how much storage needs to be recovered, reallocated, or purchased to meet new business initiatives. This helps focus optimization strategies and creates efficiencies throughout the storage environment.

Accurate forecasting also eliminates surprises and the emergency buys that often bloat storage budgets. APTARE allows administrators to proactively manage capacity needs, ensuring the organization has the resources it needs to support business initiatives. Existing infrastructure can be optimized, delaying purchases while saving money. Above all, it makes sure storage isn't an inhibitor to growth or seen as a cost center by the rest of the organization.

"The only thing worse than not being able to meet data requirements is having to tell the CFO that you need additional budget for something that you should have predicted," Walt Duflock said. "APTARE takes the uncertainty out of storage purchases, ensuring that costs are avoided when possible and predictable when they're not."

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