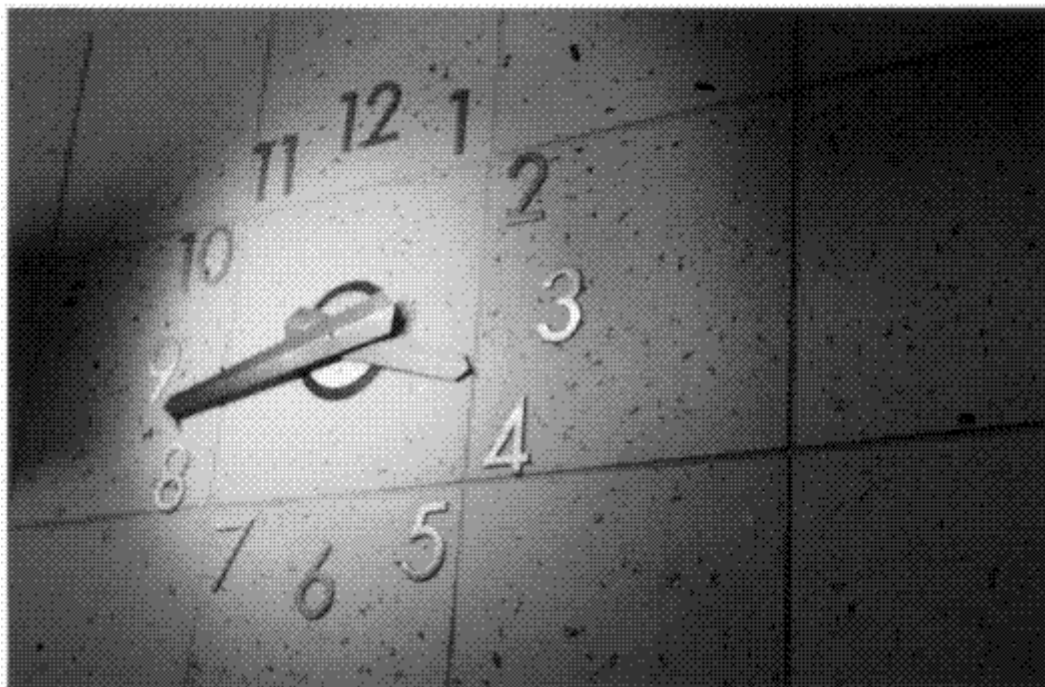




STORAGE AVAILABILITY AUDIT



Prepared for:
Customer Name: Citigroup CZ
Date: 23-Mar-2010

Prepared by:
Contact: Myles Hook, Storage Optimisation Consultant
E-mail Address: myles.hook@netapp.com
Phone number: +447825356321

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EXECUTIVE SUMMARY

This Storage Availability Audit was conducted by NetApp Authorized Services Engineer, Myles Hook, myles.hook@netapp.com, for Citigroup CZ. NetApp storage audit and assessment is part of the proactive strategy that provides comprehensive inspections and evaluations of your storage infrastructure, growth requirements, and trends. The results of these reports help your storage management team to leverage and expand existing resources, minimize reactive efforts, and prioritize future storage investments.

Integral to the analysis of environmental and operational statistics for the Storage Availability Audit report is the AutoSupport feature of the NetApp Data ONTAP operating system. AutoSupport is an integrated monitoring feature that constantly provides operational, environmental, and configuration information and status on your storage systems.

At a Glance

Systems Inventory

Component	Count
Filer	2
NearStore	0
NetApp VTL	0
V-Series	0
NetCache	0
DataFort	0

Capacity Summary

Systems Summary	TB
Total Useable	13.63
Total Available	3.10
Total Used	10.53
Percent Available	23%
Percent Used	77%

Down Rev Components

Component	System Count
Motherboard	0
Shelf	2
Disk	2
O/S	2

RMA Summary

Status	Count
Returns Received	0
Returns Outstanding	1

Service Contracts Summary

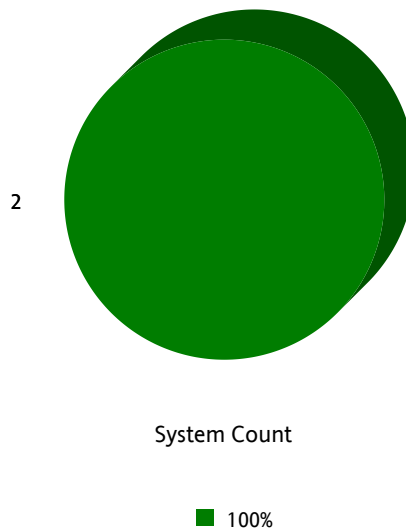
Status	Count
Grace Period	2

Unique System Messages

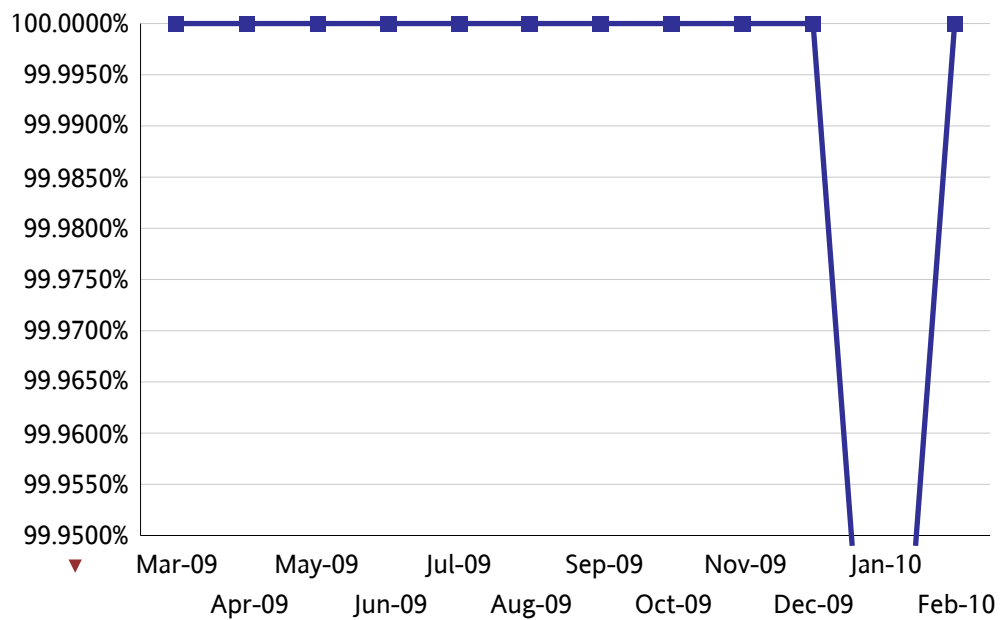
Type	Count
Recommend	2
Notice	2
Warning	0

Data Availability Summary

Current Data Availability



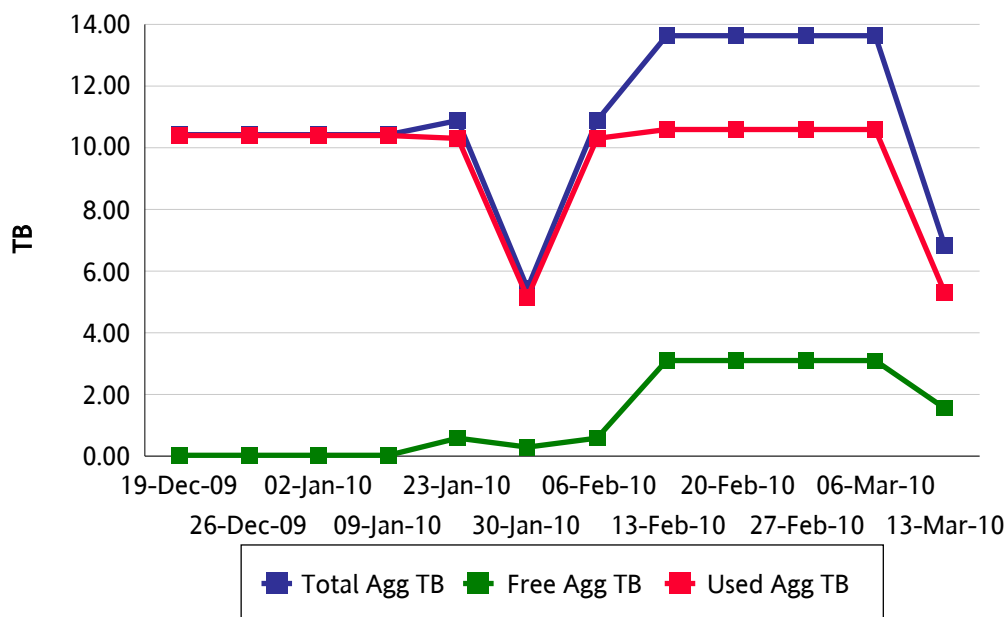
Data Availability Trends



Capacity Summary

Utilization	Systems Count	Host Name	Serial Number	% Used
76-90%	2	prgctinas001	2063534	77%
		prgctinas002	1078309	77%

Total Systems Capacity Trends



Technical Support Cases

Open Case Count

	P3	Total
Jan-10	1	1
Mar-10	1	1

Closed Case Count

	P3	Total
Mar-09	1	1
Mar-10	1	1

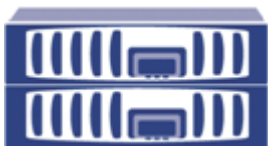
Total Days to Resolution

	P3	Total
Mar-09	21	21
Mar-10	21	21

TECHNICAL SUMMARY

Storage Availability Audits are a valuable NetApp service to maintain a robust and secure storage environment. Gain insight and control to reduce unexpected downtime, proactively address potential issues, and ensure you are leveraging NetApp best practices. Storage Availability Audits are comprehensive custom reports that convey the status of your entire NetApp storage environment.

System Summary for systems sending AutoSupport

Product	Platform	Host Name	Serial Number	Useable TB
 FILER	FAS3050	prgctinas002	1078309	6.82
	FAS3050	prgctinas001	2063534	6.82
	FILER			13.63

System Summary for systems not sending AutoSupport

There are no systems in this section

Action Points

Summary of Alerts

Component	Warning	Recommend	Notice
System	0	2	4
Disk	2	0	0
Volume	0	0	1
Aggregate	0	0	0
Interface	0	0	0
Host Bus Adapter(HBA)	0	0	0

System Uptime

Systems Uptime Summary: Last 12 months

	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10
Total Downtime (min.)	0	0	0	0	0	0	0	0	0	0	57	0
Total System Outages	0	0	0	0	0	0	0	0	0	0	2	0

Systems Uptime Summary: Last 3 months

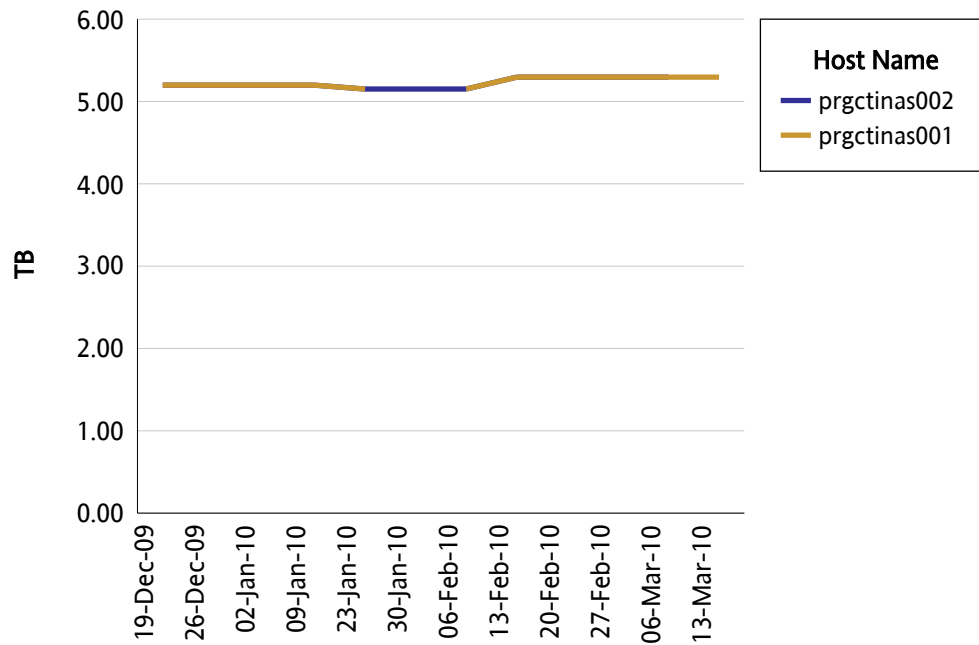
Host Name	Serial Number	Fiscal Month	Total Downtime	Total Count
PRGCTINAS001	2063534	01-Dec-2009	0	0
		01-Jan-2010	57	2
		01-Feb-2010	0	0
PRGCTINAS002	1078309	01-Dec-2009	0	0
		01-Jan-2010	0	0
		01-Feb-2010	0	0

Systems Uptime since last reboot

Host Name	Serial Number	System Uptime	Reported On
prgctinas001	2063534	56 days, 2:08	14-Mar-2010 12:03:00 AM
prgctinas002	1078309	49 days, 1:46	07-Mar-2010 12:03:00 AM

System Capacity

Storage Capacity Trends - Top 10 Systems



O/S and Firmware Summary

Data ONTAP

Host Name	Serial Number	Current O/S Version	Latest O/S Version
prgctinas001	2063534	7.2.5.1P6D15	7.3.2
prgctinas002	1078309	7.2.5.1P6D15	7.3.2

Motherboard Firmware

Host Name	Serial Number	Current Firmware	Latest Firmware	Up to Date
prgctinas001	2063534	CFE 3.1.0		
prgctinas002	1078309	CFE 3.1.0		

Shelf Firmware

Host Name	Serial Number	Shelf Count	Shelf Type	Shelf Module Type	Current Firmware	Latest Firmware	Up to Date
prgctinas001	2063534	4	DS14-Mk2-FC	ESH2	19	20	
		2	DS14-Mk4-FC	ESH4	13	13	
prgctinas002	1078309	4	DS14-Mk2-FC	ESH2	19	20	
		2	DS14-Mk4-FC	ESH4	13	13	

Disk Firmware

Host Name	Serial Number	Disk Count	Disk Model	Current Firmware	Latest Firmware	Up to Date
prgctinas001	2063534	54	X274_HPYYTA146F10	NA03	NA04	
		2	X274_S10K7146F10	NA07	NA07	
		28	X291_S15K6420F15	NA00		
prgctinas002	1078309	56	X274_HPYYTA146F10	NA03	NA04	
		28	X291_S15K6420F15	NA00		

RMA Details

Host Name	Serial Number	Return/Received date	Return/Received Item or Serial Number	Return/Received Part Number	Return/Received Status	Part Description	Return Required
PRGCTINAS001	2063534	18-Jan-2010	1000	SP-291A-R5	Awaiting Return	DSK,450GB, 15K RPM,4Gb,FC	YES

REPORTING DETAILS

Storage Availability Audits assist you in obtaining the best possible performance and availability from your storage environment. The detailed data provided in this section of the NetApp Storage Availability Audit report helps you invest in optimally sized technologies and confidently pursue new business strategies.

Summary of Recommendations

System Level Recommendations

Type: Recommend		
Host Name	Serial Number	Recommendation
prgctinas002	1078309	Newer General Deployment release is available for this appliance. Consult the System Firmware documentation on NOW for download and installation instructions. http://now.netapp.com/NOW/cgi-bin/software
prgctinas001	2063534	
Type: Notice		
prgctinas002	1078309	Depending on the number of disks installed and their current firmware revision as compared to the firmware contained in the OS being installed, the disk firmware upgrade process can slow down the boot process to the point that it might briefly disrupt data service. Ensure the disks installed in this system are on the same firmware revision or later than what is contained in the destination OS prior to OS upgrade. http://now.netapp.com/eservice/SamAuditServlet?cid=d73e471d18d718731407a37aad708704
prgctinas001	2063534	
prgctinas002	1078309	The recommended virus scanner timeout setting is 10 seconds. The option setting on this system is above 12 seconds. The vscan timeout setting determines how long a filer will wait before querying a vscan server for response to the virus scanning request. If this value is set too high it can delay recovery from virus scan server side issues. Please use the "vscan options timeout set" command to adjust the timeout value to 10 seconds.
prgctinas001	2063534	

Disk Level Recommendations

Type: Warning			
Host Name	Serial Number	Recommendation	Disk Count
prgctinas002	1078309	More recent firmware is available for this disk on the NOW site. After installation, it can be downloaded to the disks using the "disk_fw_update" command. The "disk_fw_update" command is available in Data ONTAP 5.3.7 and later and Net Cache OS 5.3.1 and later. http://now.netapp.com/Knowledgebase/solutionarea.asp?id=ntapcs1110 http://now.netapp.com/NOW/download/tools/diskfw/	56
prgctinas001	2063534		54

Volume Recommendation Level

Type: Notice			
Host Name	Serial Number	Volume Name	Recommendation
prgctinas002	1078309	prgv01	Snapshot usage on this volume exceeds 80% of the allotted capacity. Snapshot capacity should be monitored closely to ensure that enough space is set aside for snapshots. Increase the amount of space reserved for snapshots using the "snap reserve" command.

There are no Aggregate level recommendations found.

There are no HBA level recommendations found.

There are no Interface level recommendations found.

Active Open Cases

There are no open cases found.

Case History: Last 3 Months

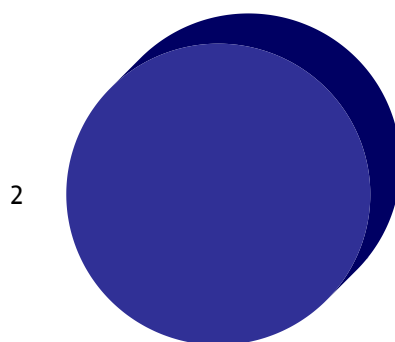
Case ID	Host Name, Serial Number	Case Created Date Case Closed Date	Highest Priority, Current Priority	Description
2001260463	PRGCTINAS001 2063534	17- Jan-2010	3 3	disk failed
2001369779	PRGCTINAS001 2063534	20- Mar-2010 20- Mar-2010	3 3	CHSPWR:Cluster Notification from prgctinas001 (CHASSIS POWER SUPPLY DEGRADED: PS 1) WARNING

Service Contracts

Host Name, Serial Number	Contract Status	Contract Number	Contract Type	Service Name	Service Level	Service End date	Active
PRGCTINAS002 1078309	Grace Period	10556365	NetApp Standard Contract	SSP All SW		30-Nov-2009	
PRGCTINAS001 2063534	Grace Period	10556365	NetApp Standard Contract	SSP All SW		30-Nov-2009	

Performance Summary - CPU Utilization

Current Average CPU Utilization Systems Summary

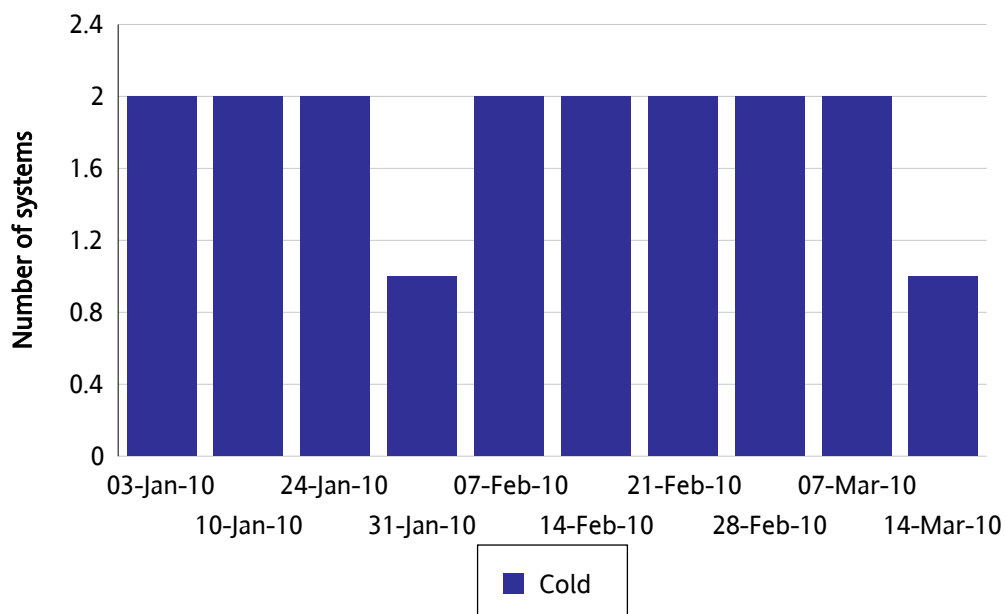


System Count



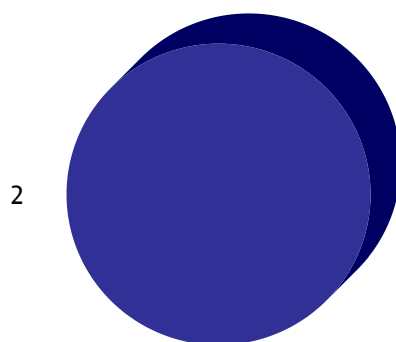
Storage systems are considered Hot when a system spends >40% of its time at >80% utilization. Heated systems spend >10% of their time at >80% utilization. Cool systems spend >50% of their time at >40% utilization. Cold is indicated when none of the previous conditions are true.

Average CPU Utilization Systems Trend



Performance Summary - Disk Utilization

Current Average Disk Utilization Systems Summary

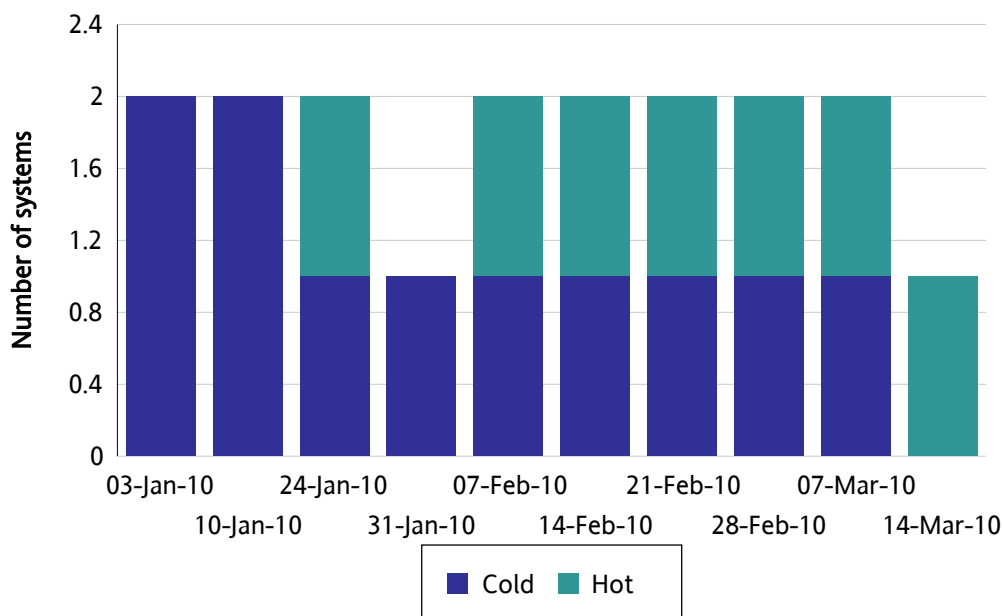


System Count



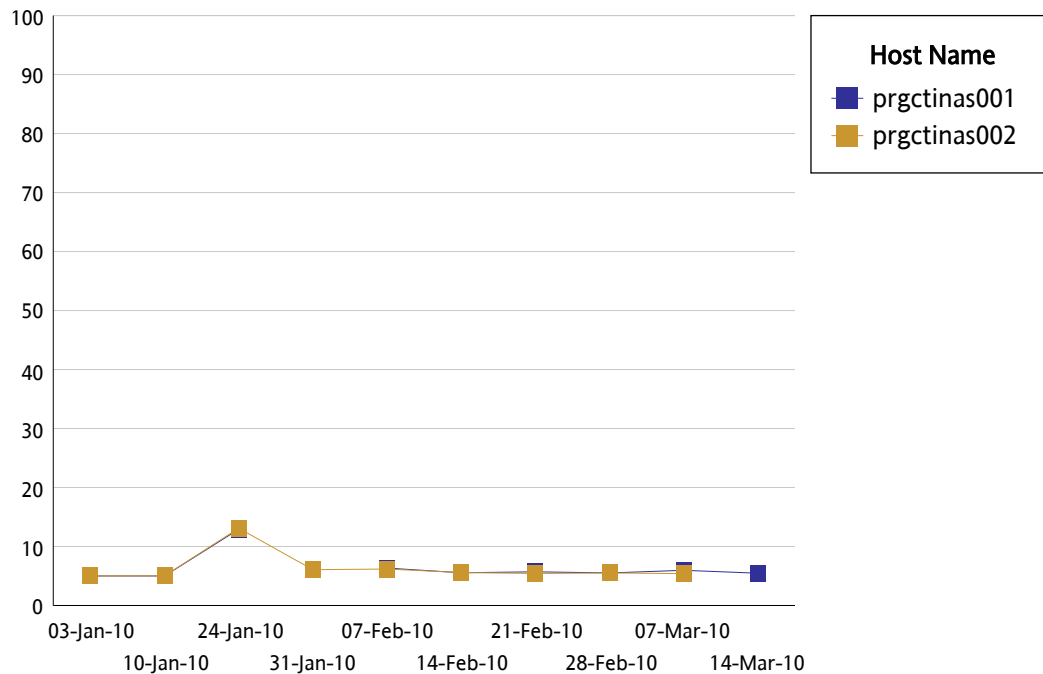
Storage systems are considered Hot when a system spends >40% of its time at >80% utilization. Heated systems spend >10% of their time at >80% utilization. Cool systems spend >50% of their time at >40% utilization. Cold is indicated when none of the previous conditions are true.

Average Disk Utilization Systems Trend

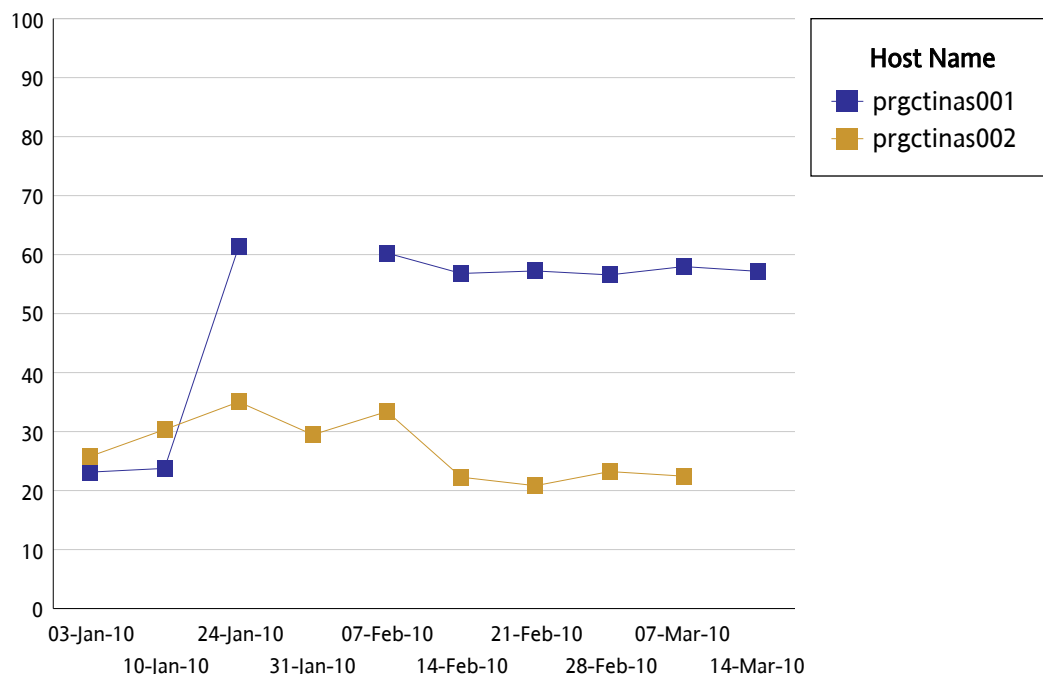


System Performance

Average CPU Utilization % Trends - Top 10 Systems



Average Disk Utilization % Trends - Top 10 Systems



Physical Inspection Summary

Your NetApp systems are checked for physical and environmental criteria that will adversely affect the availability and performance of your system. The following conditions are checked during a physical inspection.

1. Are all of the disk shelves mounted properly?
2. Do all shelf labels match the shelf IDs?
3. Are all disks and power supply sleds seated properly?
4. Are all head unit fans spinning normally?
5. Are all fans free of dust?
6. Are all power supply LEDs working?
7. Are all power supply fault lights off?
8. Are all exhaust fans spinning normally?
9. Are all power cords fastened securely?
10. Is the system grounded properly?
11. Is the FCAL connector terminator properly attached to the system?
12. Does the system meet NetApp power requirements?
13. Does the system have a spares kit?

Host Name Serial Number	Inspection Date	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13
PRGCTINAS001 2063534	20-May-2007													

SYSTEM REVIEW



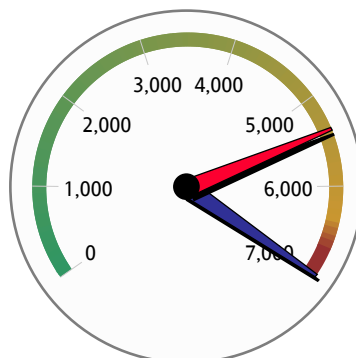
Host Name: prgctinas002
Serial Number: 1078309
Last Update: 07-Mar-2010

Model: FAS3050
O/S: 7.2.5.1P6D15
Partner Name: prgctinas001

Installed Products

Product Name
CIFS
CLUSTER
ISCSI
MULTISTORE
NFS
SNAPMIRROR
SNAPMOVER
SNAPRESTORE
SV_ONTAP_SEC

Aggregate Utilization

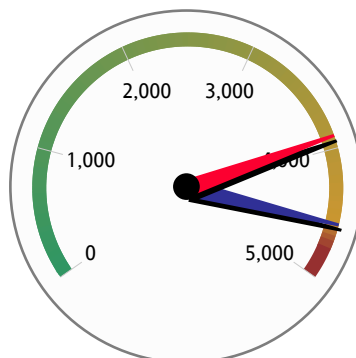


■ Used Aggregate GB ■ Total Aggregate GB

Hardware Summary

Component	Count
Shelves	6
Disk	84

Volume Utilization



■ Used Volume GB ■ Total Volume GB

ASUP Contact: intnas.alerts@imceu.eu.smb.com
SNMP Contact & Location: No information provided
ASUP Minimal Flag: F

System Slot Inventory

Slot Number	Part Number	Description
0	110-00057	Remote LAN Module
0		Dual 10/100/1000 Ethernet Controller VI
0		FC Host Adapter (Dual-channel, QLogic 2322 rev. 3)
0		SCSI Host Adapter (Adaptec AIC7892)
1	X1037C	Dual 10/100/1000 Ethernet Controller VII
2		FC Host Adapter (Dual-channel, QLogic 2312 (2342) rev. 2)
3	X3145A	NVRAM V

Disk Summary

Disk Label	Disk Model, Disk Make	Current FW, Latest FW	Checksum Type	Disk Size GB	Disk Bytes Per Sector	Shelf Type	Disk Count
DATA	X291_S15K6420F15 NETAPP	NA00		418.00	520	DS14-Mk4-FC	20
DPARITY	X291_S15K6420F15 NETAPP	NA00		418.00	520	DS14-Mk4-FC	3
PARITY	X291_S15K6420F15 NETAPP	NA00		418.00	520	DS14-Mk4-FC	3
SPARE	X274_HPYTA146F10 NETAPP	NA03 NA04		136.00	520	DS14-Mk2-FC	56
SPARE	X291_S15K6420F15 NETAPP	NA00		418.00	520	DS14-Mk4-FC	2
Summary							84

Shelf Summary

Shelf Type	Shelf Module Type	Latest FW	Current FW	Shelf Count
DS14-Mk2-FC	ESH2	20	19	1
DS14-Mk2-FC	ESH2	20	19	1
DS14-Mk2-FC	ESH2	20	19	1
DS14-Mk2-FC	ESH2	20	19	1
DS14-Mk4-FC	ESH4	13	13	1
DS14-Mk4-FC	ESH4	13	13	1

RAID Configuration

RAID Group Name	RAID Type	Aggregate Name	Disk Count
rg0	RAID_DP	aggr0	26
		aggr1	
rg1	RAID_DP	aggr1	

Aggregate and Volume Configuration

Aggregate Name	Volume Name
aggr0	vol0
	vol0dr_m
aggr1	prgv01
	prgv02
	prgv03
	prgv04
	prgv05
	prgv06
	prgv07
	prgv08

Snapshot Usage Summary

Volume Name	Snapshot Count	Snapshot Schedule	Snapshot Space Reserve %	Snap Reserve Used %
vol0	30	2 13 13@0,12	20.00%	5.00%
prgv01	23	2 13 13@0,12	15.00%	86.00%
prgv02	29	2 13 13@0,12	15.00%	13.00%
prgv03	29	2 13 13@0,12	15.00%	27.00%
prgv04	29	2 13 13@0,12	15.00%	20.00%
prgv05	29	2 13 13@0,12	15.00%	44.00%
prgv06	29	2 13 13@0,12	15.00%	12.00%
prgv07	29	2 13 13@0,12	15.00%	16.00%
prgv08	29	2 13 13@0,12	15.00%	7.00%
vol0dr_m	0	-	0.00%	0.00%

Aggregate Usage Summary

Aggregate Name	Total GB	Used GB	Free GB	Used %	Free %
----------------	----------	---------	---------	--------	--------

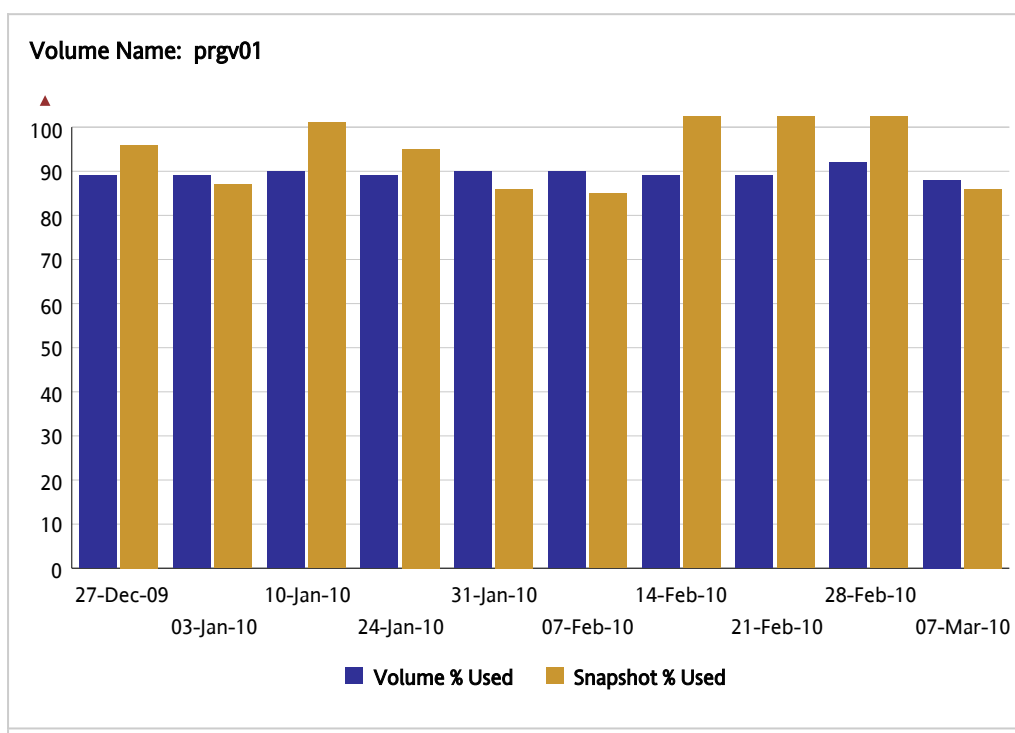
Citigroup CZ Storage Availability Audit for March 23, 2010

Aggregate Name	Total GB	Used GB	Free GB	Used %	Free %
aggr0	349.00	51.00	298.00	15.00 %	85.00 %
aggr1	6,631.00	5,342.00	1,289.00	81.00 %	19.00 %

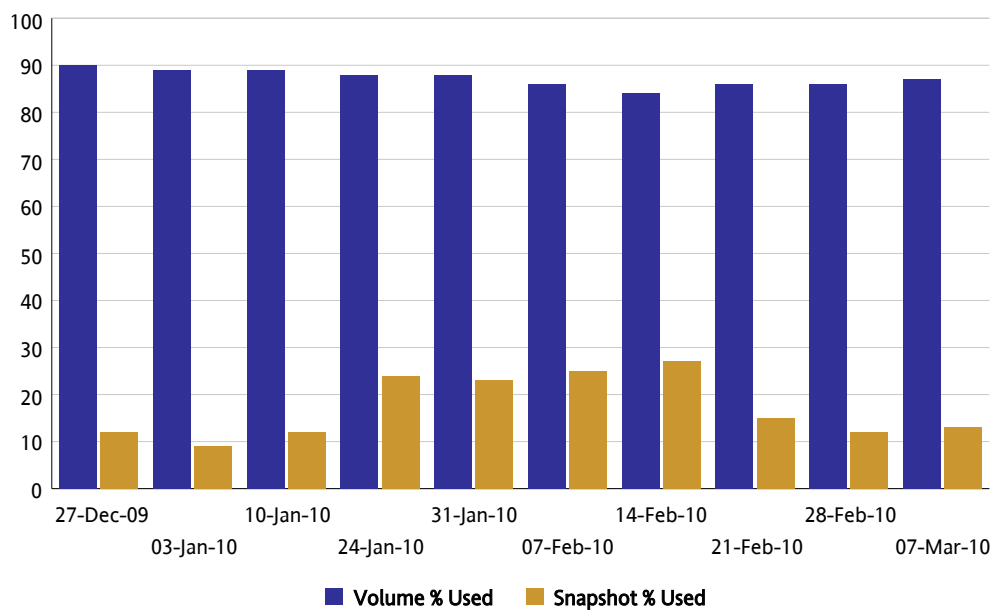
Volume Usage Summary

Aggregate Name	Volume Name	Volume Type	Volume State	Total GB	Used GB	Free GB	Used %	Inode Used %
aggr0	vol0	FLEX	ONLINE	40.00	2.00	38.36	4.00 %	0.00 %
	vol0dr_m	FLEX	RESTRICTED	0.00	0.00	0.00	0.00 %	0.00 %
aggr1	prgv01	FLEX	ONLINE	566.95	499.00	67.78	88.00 %	2.00 %
	prgv02	FLEX	ONLINE	566.95	492.00	74.70	87.00 %	1.00 %
	prgv03	FLEX	ONLINE	566.95	494.00	72.73	87.00 %	1.00 %
	prgv04	FLEX	ONLINE	566.95	496.00	70.78	88.00 %	2.00 %
	prgv05	FLEX	ONLINE	566.95	486.00	80.76	86.00 %	1.00 %
	prgv06	FLEX	ONLINE	566.95	498.00	69.25	88.00 %	2.00 %
	prgv07	FLEX	ONLINE	566.95	498.00	68.98	88.00 %	3.00 %
	prgv08	FLEX	ONLINE	566.95	440.00	126.58	78.00 %	4.00 %

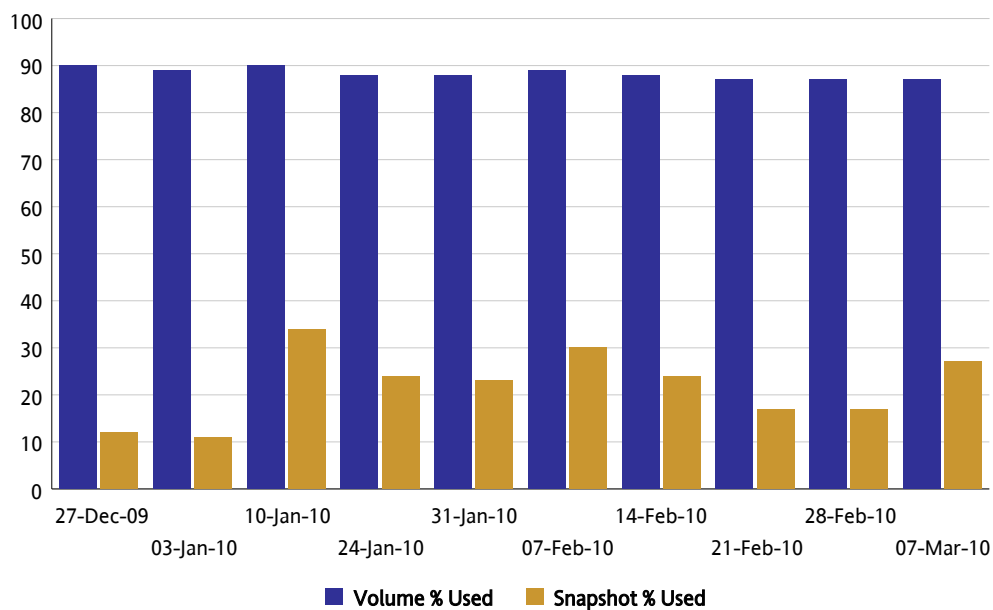
Disk Space Utilization



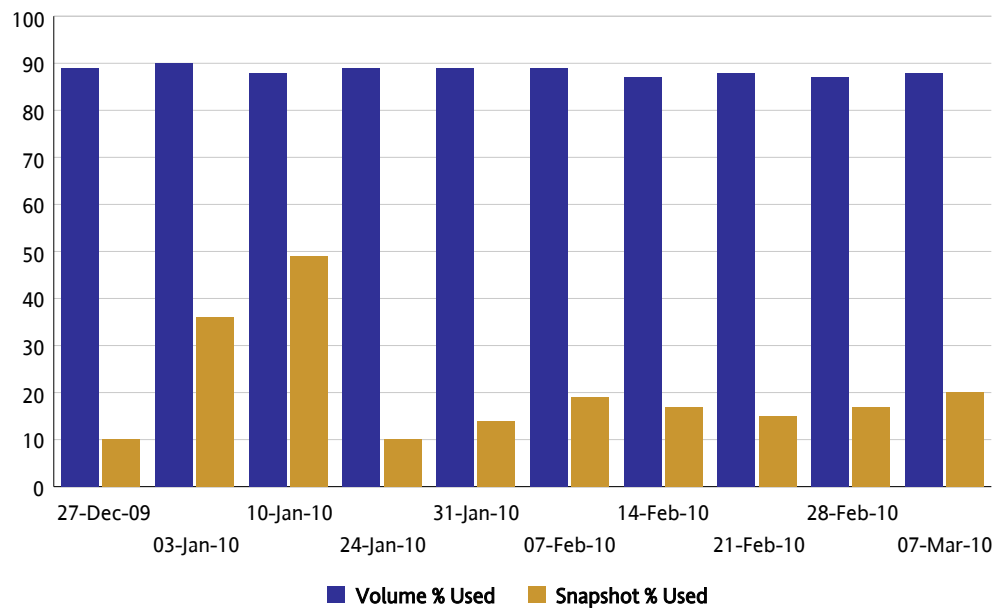
Volume Name: prgv02



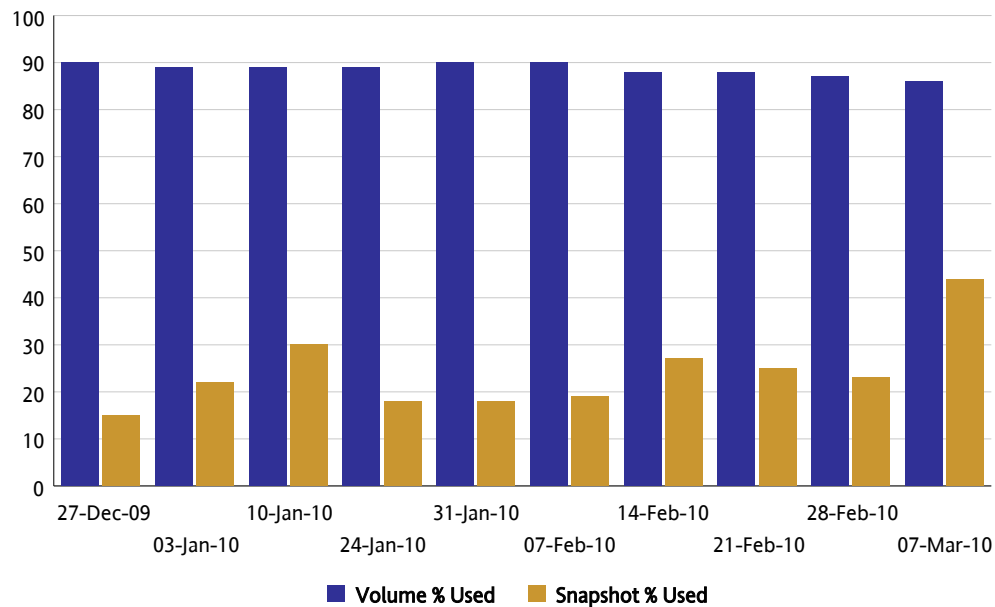
Volume Name: prgv03



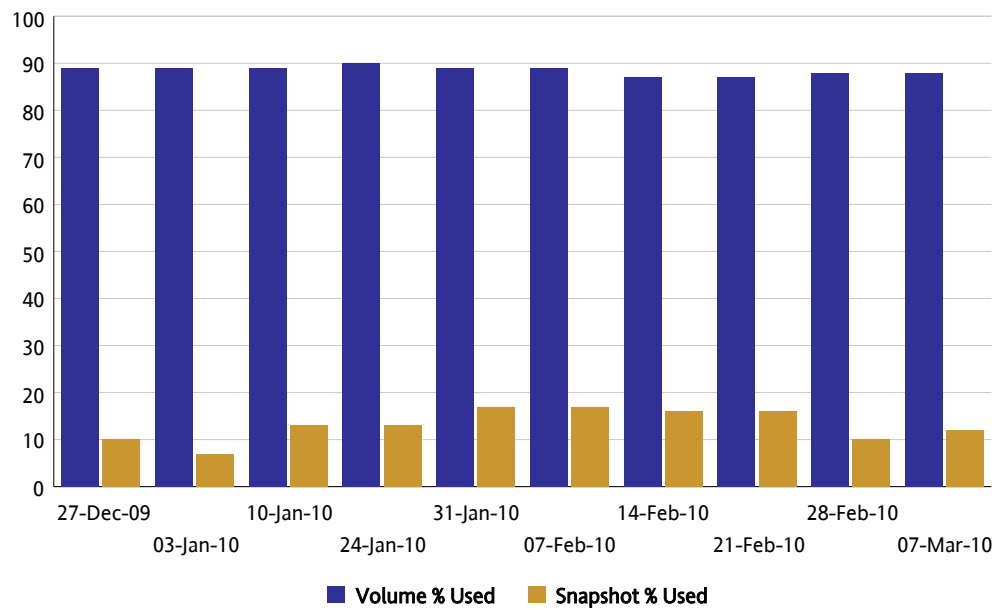
Volume Name: prgv04



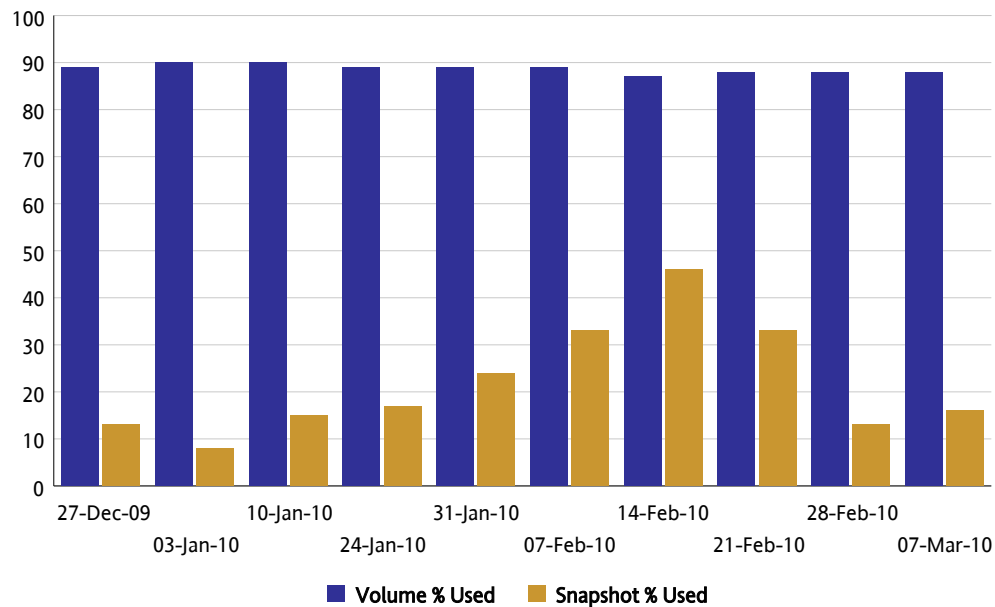
Volume Name: prgv05

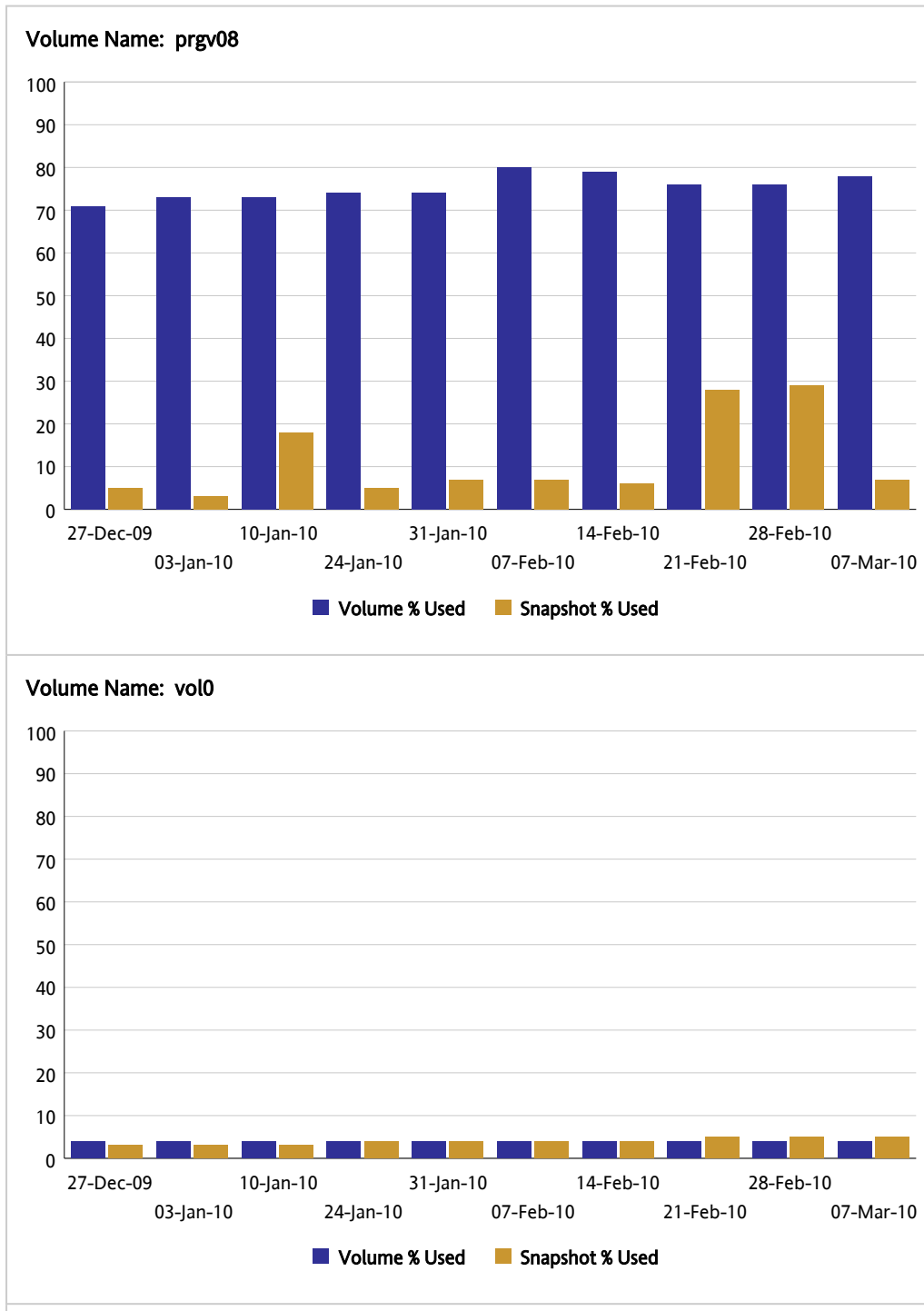


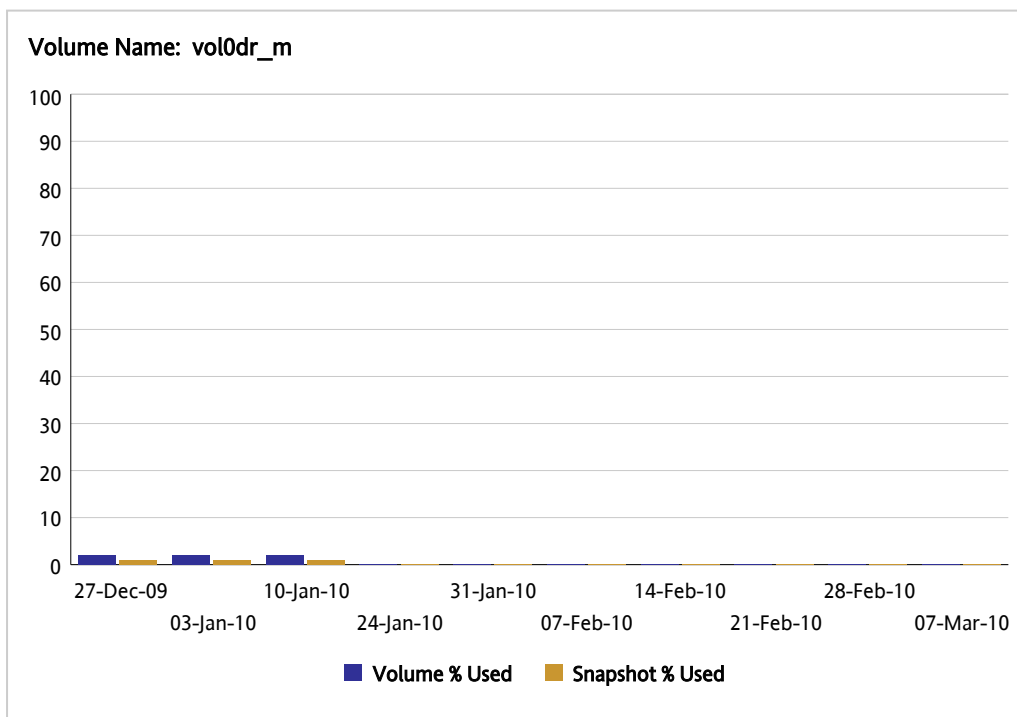
Volume Name: prgv06



Volume Name: prgv07







Qtree Status

Aggregate Name	Volume Name	Qtree Path Name	Qtree State
aggr0	vol0	/vol/vol0/-	NORMAL
		/vol/vol0/auditlog	NORMAL
	vol0dr_m	/vol/vol0dr_m/-	NORMAL
aggr1	prgv01	/vol/prgv01/-	NORMAL
		/vol/prgv01/ctiq017	NORMAL
		/vol/prgv01/ctiq018	NORMAL
	prgv02	/vol/prgv02/-	NORMAL
		/vol/prgv02/ctiq019	NORMAL
		/vol/prgv02/ctiq020	NORMAL
	prgv03	/vol/prgv03/-	NORMAL
		/vol/prgv03/ctiq021	NORMAL
		/vol/prgv03/ctiq022	NORMAL
	prgv04	/vol/prgv04/-	NORMAL
		/vol/prgv04/ctiq023	NORMAL
		/vol/prgv04/ctiq024	NORMAL
	prgv05	/vol/prgv05/-	NORMAL
		/vol/prgv05/ctiq025	NORMAL
		/vol/prgv05/ctiq026	NORMAL
	prgv06	/vol/prgv06/-	NORMAL
		/vol/prgv06/ctiq027	NORMAL

Aggregate Name	Volume Name	Qtree Path Name	Qtree State
aggr1	prgv06	/vol/prgv06/ctiq028	NORMAL
	prgv07	/vol/prgv07/-	NORMAL
		/vol/prgv07/ctiq029	NORMAL
		/vol/prgv07/ctiq030	NORMAL
	prgv08	/vol/prgv08/-	NORMAL
		/vol/prgv08/ctiq032	NORMAL

There are no LUNs found for this system.

SnapMirror / SnapVault Status

SnapMirror State	Source System	Source Path	Destination System	Destination Path
SOURCE	prgctinas002	/vol/prgv01/-	prgctinas002dr	/vol/prgv01/-
SOURCE	prgctinas002	/vol/prgv02/-	prgctinas002dr	/vol/prgv02/-
SOURCE	prgctinas002	/vol/prgv03/-	prgctinas002dr	/vol/prgv03/-
SOURCE	prgctinas002	/vol/prgv04/-	prgctinas002dr	/vol/prgv04/-
SOURCE	prgctinas002	/vol/prgv05/-	prgctinas002dr	/vol/prgv05/-
SOURCE	prgctinas002	/vol/prgv06/-	prgctinas002dr	/vol/prgv06/-
SOURCE	prgctinas002	/vol/prgv07/-	prgctinas002dr	/vol/prgv07/-
SOURCE	prgctinas002	/vol/prgv08/-	prgctinas002dr	/vol/prgv08/-
SOURCE	prgctinas002	/vol/vol0/-	prgctinas002dr	/vol/vol0dr_m/-

Network Information

Port Name	Description	IP Address, Subnet Mask	Media Type	VIF Name	Current Interface Speed	Full Duplex	FC Setting, Negotiated	Auto-Negotiate Enabled
e0a	Dual 10/100/1000 Ethernet Controller VI	169.162.179.202 255.255.255.128	auto-1000t-fd-up	gev1	1,000	Full	Full Unknown	On
e0c	Dual 10/100/1000 Ethernet Controller VI	169.162.179.202 255.255.255.128	auto-1000t-fd-up	gev1	1,000	Full	Full Unknown	On
e0b	Dual 10/100/1000 Ethernet Controller VI	-					Full Unknown	
e0d	Dual 10/100/1000 Ethernet Controller VI	-					Full Unknown	
e1a	Dual 10/100/1000 Ethernet Controller VII	-					Full Unknown	
e1b	Dual 10/100/1000 Ethernet Controller VII	-					Full Unknown	

iSCSI (Internet Small Computer Systems Interface) Adapter Status

Interface Name	Interface State	Target Portal Group Name	IP Address	ISCSI Port Name
0e	ONLINE		169.162.179.202	

NFS (Network File System) Protocol Usage

NFS calls by Protocol:

Protocol	NFS Calls	Bad Calls	Bad Calls %
TCP	0	0	0.00%
UDP	0	0	0.00%

NFS calls by Version:

NFS Version	NFS Calls	NFS Calls %
NFSv2	0	0.00%
NFSv3	0	0.00%
NFSv4	0	0.00%

CIFS (Common Internet File System): Top 5 CIFS Operations

The "CIFS Stat" command shows CIFS related statistics since the last system reboot. These statistics break down the top 5 CIFS operations.

CIFS operation	CIFS Calls	CIFS Calls %
find_first2	20881944	2.00%
query_file_info	561455482	42.00%
query_path_info	80527445	6.00%
readX	128768231	10.00%
writeX	481919159	36.00%

MultiStore (vFiler)

vFiler Name	vFiler State	vFiler IP Space	UUID (Universal Unique ID)
vfiler0	RUNNING	default-ipospace	00000000-0000-0000-0000-000000000000

ASUP (AutoSupport) Status

ASUP Category	Value
autosupport.enable	on
autosupport.mailhost	mailhub-vip.ny.ssmb.com,mailhub-dc1.eu.ssmb.com,mailhub-dc2.eur.nsroot.net
autosupport.noteto	nas.alerts@citi.com
autosupport.support.enable	on
autosupport.support.proxy	webproxy.wlb.nsroot.net:8080
autosupport.support.to	autosupport@netapp.com
autosupport.support.transport	https

ASUP Category	Value
autosupport.support.url	support.netapp.com/asupprod/post/1.0/postAsup
autosupport.to	intnas.alerts@imceu.eu.ssmb.com

SYSTEM REVIEW



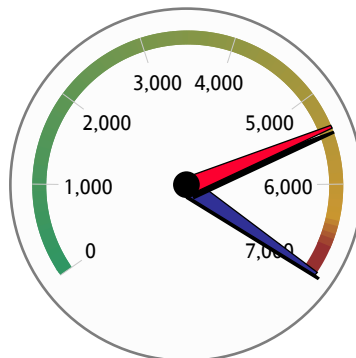
Host Name: prgctinas001
Serial Number: 2063534
Last Update: 14-Mar-2010

Model: FAS3050
O/S: 7.2.5.1P6D15
Partner Name: prgctinas002

Installed Products

Product Name
CIFS
CLUSTER
ISCSI
MULTISTORE
NFS
SNAPMIRROR
SNAPMOVER
SNAPRESTORE
SV_ONTAP_SEC

Aggregate Utilization

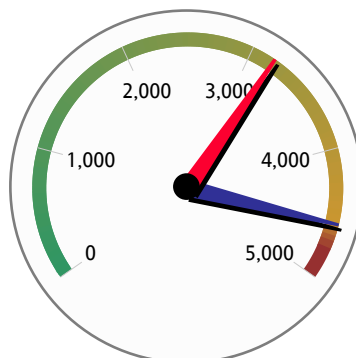


■ Used Aggregate GB ■ Total Aggregate GB

Hardware Summary

Component	Count
Shelves	6
Disk	84

Volume Utilization



■ Used Volume GB ■ Total Volume GB

ASUP Contact: intnas.alerts@imceu.eu.ssmb.com
SNMP Contact & Location: No information provided
ASUP Minimal Flag: F

System Slot Inventory

Slot Number	Part Number	Description
0	110-00057	Remote LAN Module
0		Dual 10/100/1000 Ethernet Controller VI
0		FC Host Adapter (Dual-channel, QLogic 2322 rev. 3)
0		SCSI Host Adapter (Adaptec AIC7892)
1	X1037C	Dual 10/100/1000 Ethernet Controller VII
2		FC Host Adapter (Dual-channel, QLogic 2312 (2342) rev. 2)
3	X3145A	NVRAM V

Disk Summary

Disk Label	Disk Model, Disk Make	Current FW, Latest FW	Checksum Type	Disk Size GB	Disk Bytes Per Sector	Shelf Type	Disk Count
DATA	X291_S15K6420F15 NETAPP	NA00		418.00	520	DS14-Mk4-FC	20
DPARITY	X291_S15K6420F15 NETAPP	NA00		418.00	520	DS14-Mk4-FC	3
PARITY	X291_S15K6420F15 NETAPP	NA00		418.00	520	DS14-Mk4-FC	3
SPARE	X274_HPYTA146F10 NETAPP	NA03 NA04		136.00	520	DS14-Mk2-FC	54
SPARE	X274_S10K7146F10 NETAPP	NA07 NA07		136.00	520	DS14-Mk2-FC	2
SPARE	X291_S15K6420F15 NETAPP	NA00		418.00	520	DS14-Mk4-FC	2
Summary							84

Shelf Summary

Shelf Type	Shelf Module Type	Latest FW	Current FW	Shelf Count
DS14-Mk2-FC	ESH2	20	19	1
DS14-Mk2-FC	ESH2	20	19	1
DS14-Mk2-FC	ESH2	20	19	1
DS14-Mk2-FC	ESH2	20	19	1
DS14-Mk4-FC	ESH4	13	13	1
DS14-Mk4-FC	ESH4	13	13	1

RAID Configuration

RAID Group Name	RAID Type	Aggregate Name	Disk Count
rg0	RAID_DP	aggr0	26
		aggr1	
rg1	RAID_DP	aggr1	

Aggregate and Volume Configuration

Aggregate Name	Volume Name
aggr0	vol0
	vol0dr_m
aggr1	prgv01
	prgv02
	prgv03
	prgv04
	prgv05
	prgv06
	prgv07
	prgv08

Snapshot Usage Summary

Volume Name	Snapshot Count	Snapshot Schedule	Snapshot Space Reserve %	Snap Reserve Used %
vol0	31	2 13 13@0,12	20.00%	5.00%
prgv01	30	2 13 13@0,12	15.00%	1.00%
prgv02	30	2 13 13@0,12	15.00%	18.00%
prgv03	30	2 13 13@0,12	15.00%	62.00%
prgv04	30	2 13 13@0,12	15.00%	23.00%
prgv05	30	2 13 13@0,12	15.00%	11.00%
prgv06	30	2 13 13@0,12	15.00%	27.00%
prgv07	30	2 13 13@0,12	15.00%	22.00%
prgv08	30	2 13 13@0,12	15.00%	25.00%
vol0dr_m	0	-	0.00%	0.00%

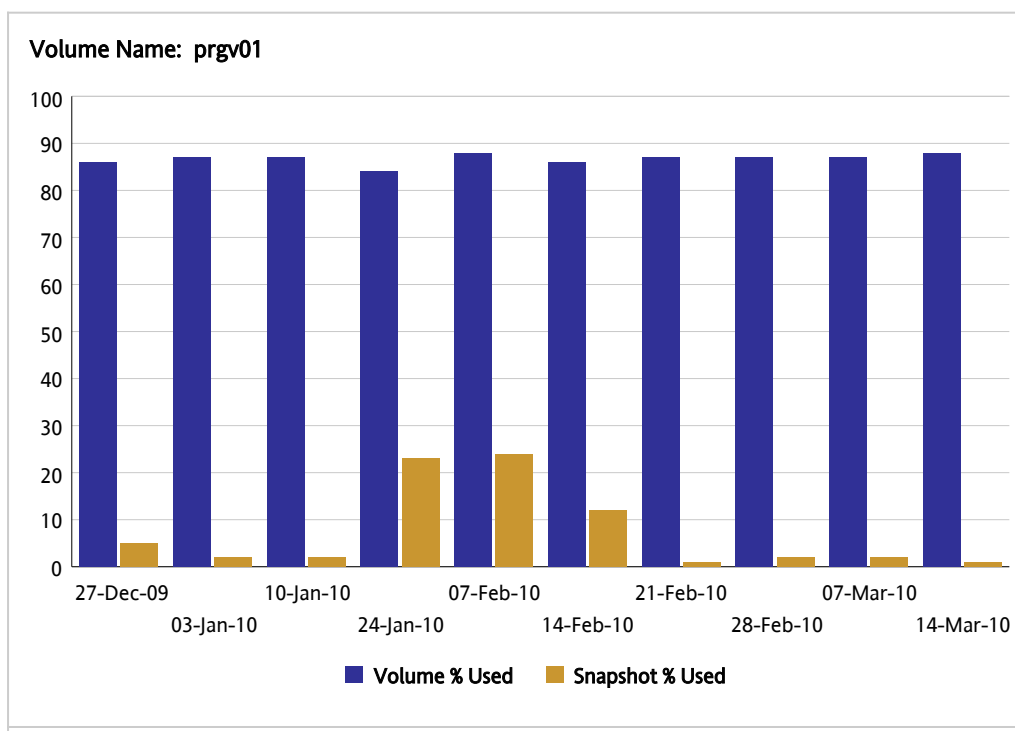
Aggregate Usage Summary

Aggregate Name	Total GB	Used GB	Free GB	Used %	Free %
aggr0	349.00	51.00	298.00	15.00 %	85.00 %
aggr1	6,631.00	5,341.00	1,289.00	81.00 %	19.00 %

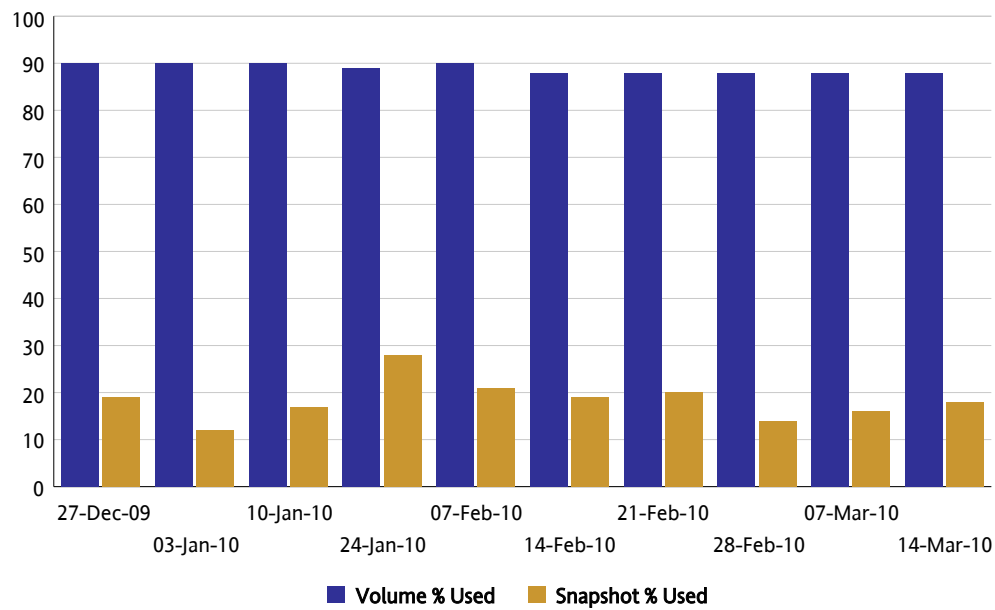
Volume Usage Summary

Aggregate Name	Volume Name	Volume Type	Volume State	Total GB	Used GB	Free GB	Used %	Inode Used %
aggr0	vol0	FLEX	ONLINE	40.00	1.00	38.73	3.00 %	0.00 %
	vol0dr_m	FLEX	RESTRICTED	0.00	0.00	0.00	0.00 %	0.00 %
aggr1	prgv01	FLEX	ONLINE	566.95	499.00	68.27	88.00 %	1.00 %
	prgv02	FLEX	ONLINE	566.95	500.00	66.67	88.00 %	2.00 %
	prgv03	FLEX	ONLINE	566.95	493.00	74.38	87.00 %	2.00 %
	prgv04	FLEX	ONLINE	566.95	214.00	353.12	38.00 %	2.00 %
	prgv05	FLEX	ONLINE	566.95	500.00	66.81	88.00 %	3.00 %
	prgv06	FLEX	ONLINE	566.95	251.00	316.45	44.00 %	3.00 %
	prgv07	FLEX	ONLINE	566.95	497.00	70.42	88.00 %	3.00 %
	prgv08	FLEX	ONLINE	566.95	229.00	337.90	40.00 %	3.00 %

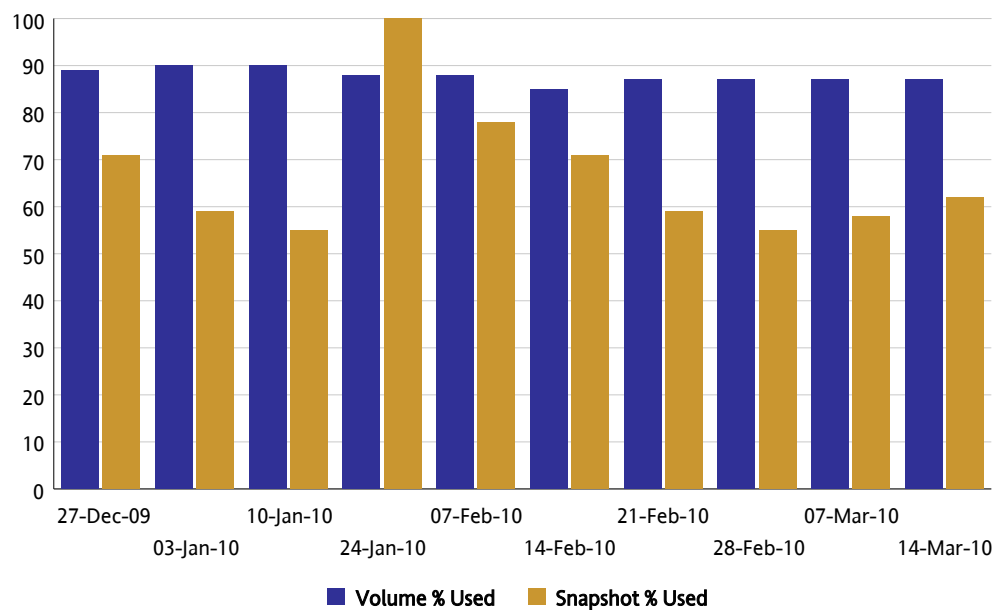
Disk Space Utilization



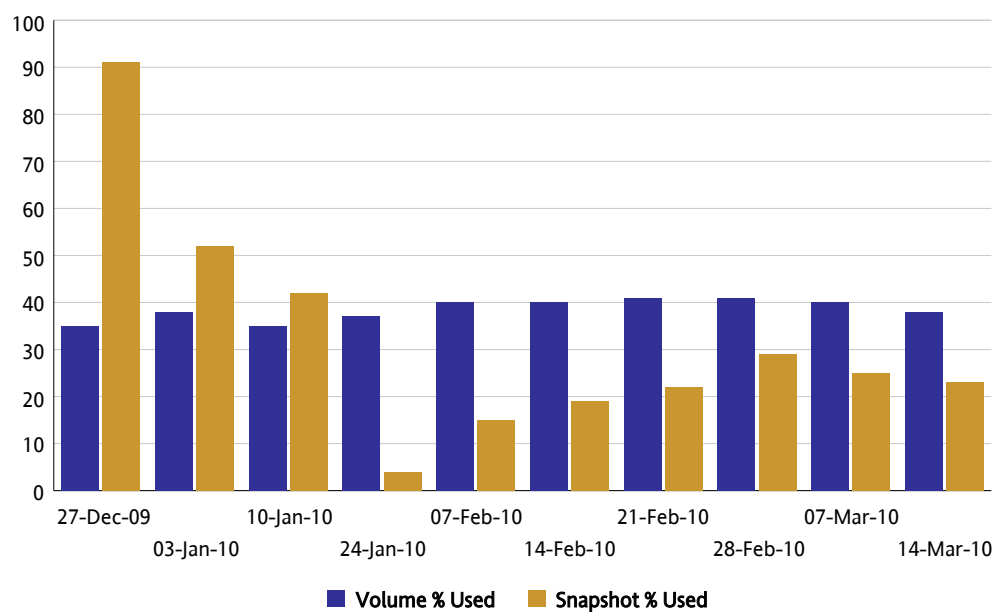
Volume Name: prgv02



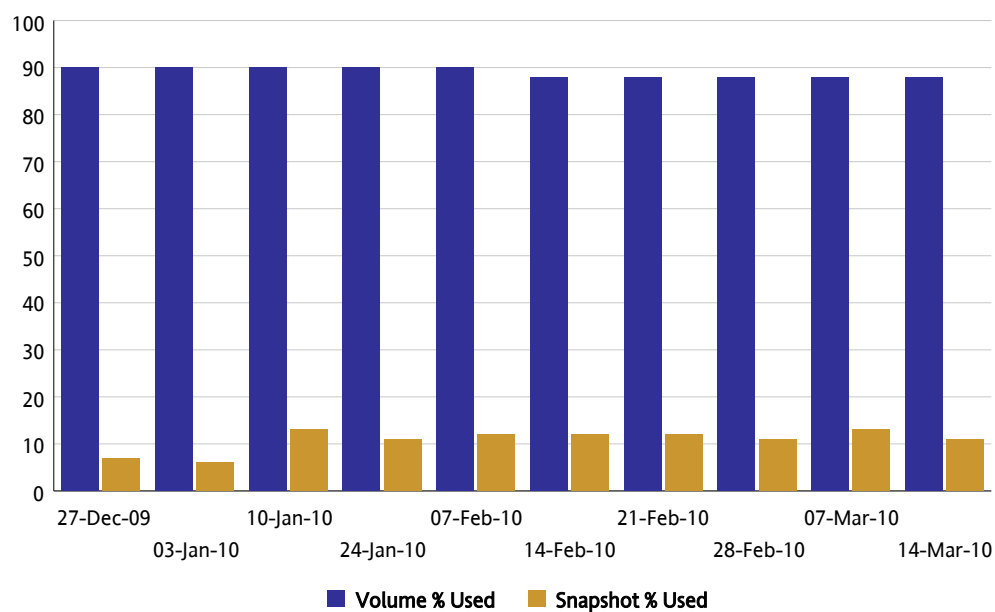
Volume Name: prgv03



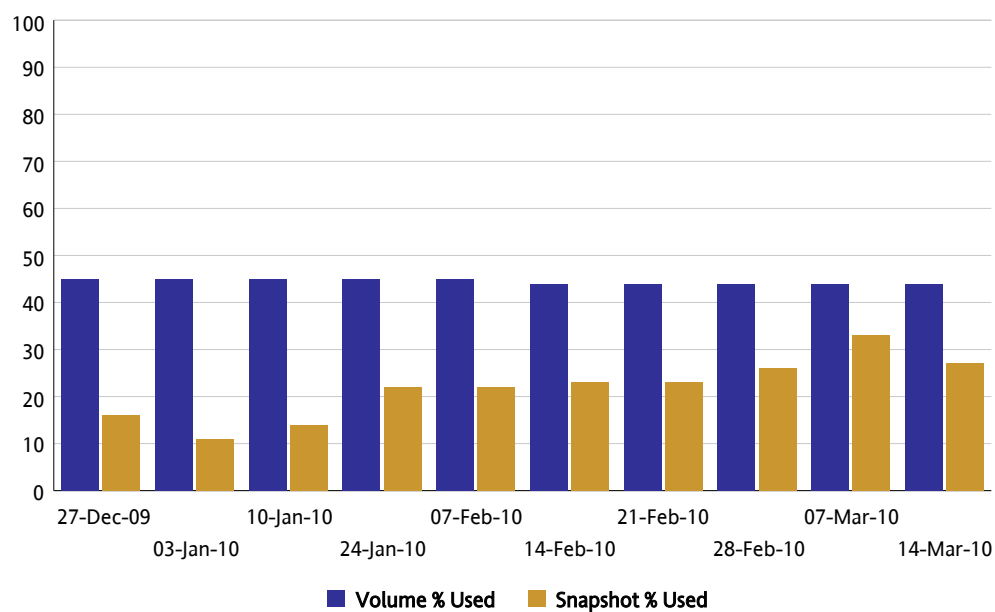
Volume Name: prgv04



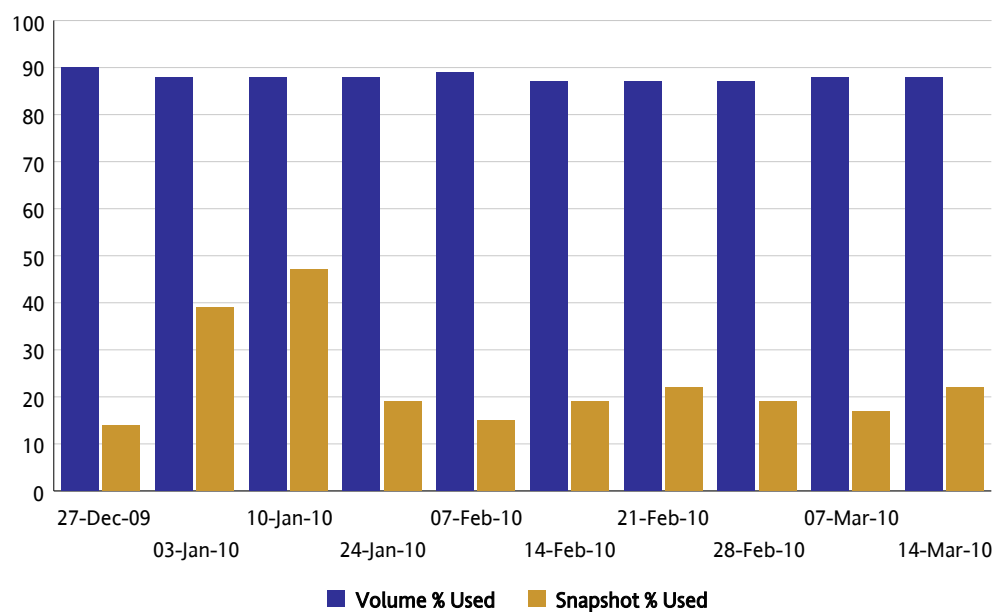
Volume Name: prgv05

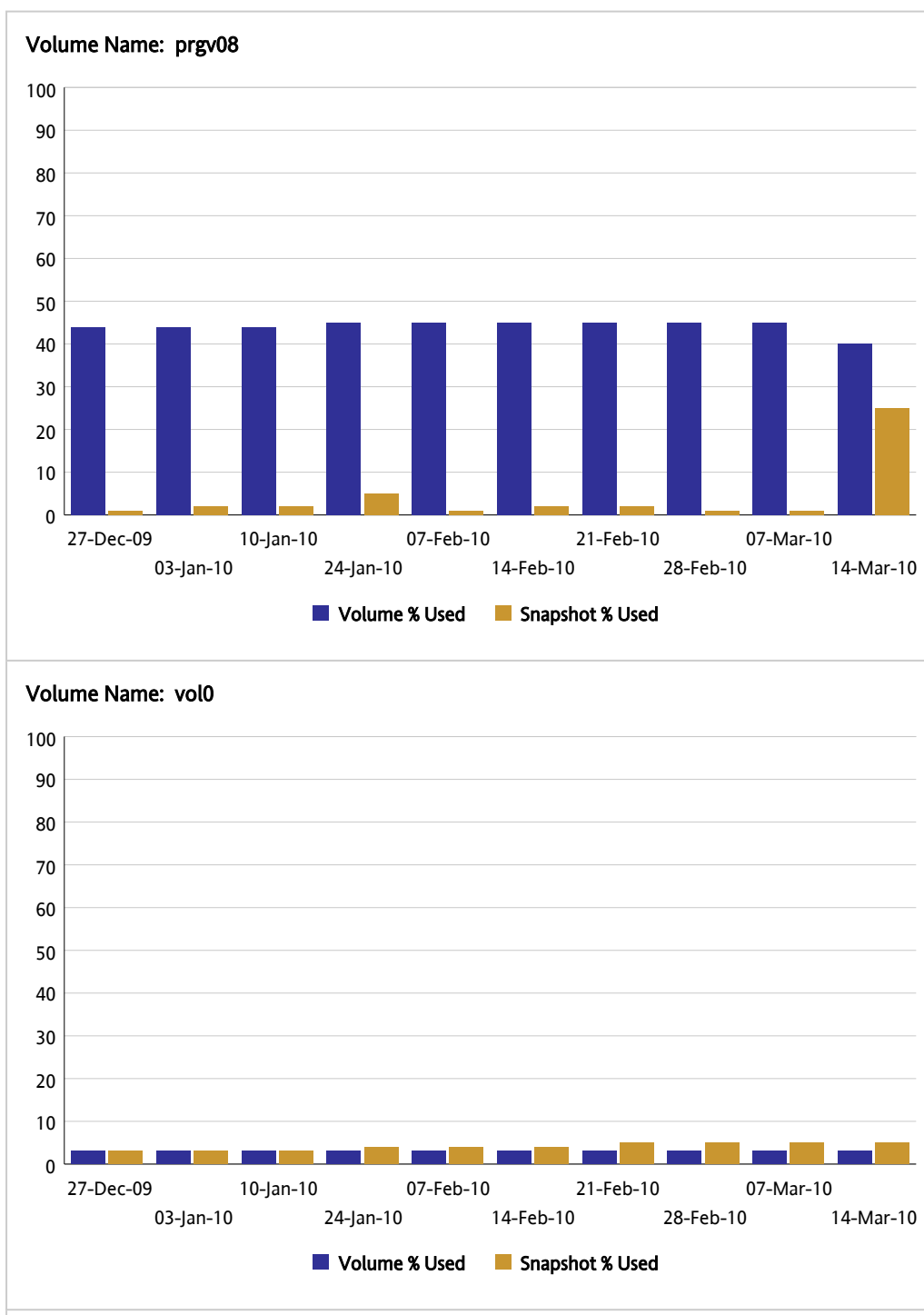


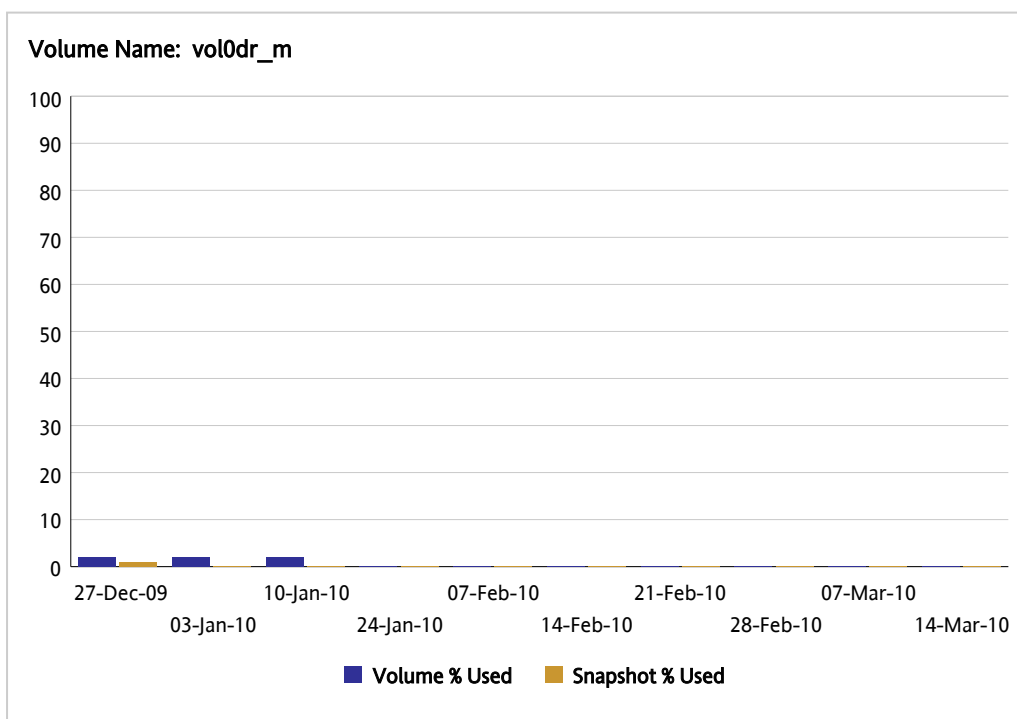
Volume Name: prgv06



Volume Name: prgv07







Qtree Status

Aggregate Name	Volume Name	Qtree Path Name	Qtree State
aggr0	vol0	/vol/vol0/-	NORMAL
		/vol/vol0/auditlog	NORMAL
	vol0dr_m	/vol/vol0dr_m/-	NORMAL
aggr1	prgv01	/vol/prgv01/-	NORMAL
		/vol/prgv01/ctiq001	NORMAL
		/vol/prgv01/ctiq002	NORMAL
	prgv02	/vol/prgv02/-	NORMAL
		/vol/prgv02/ctiq003	NORMAL
		/vol/prgv02/ctiq004	NORMAL
	prgv03	/vol/prgv03/-	NORMAL
		/vol/prgv03/ctiq005	NORMAL
		/vol/prgv03/ctiq006	NORMAL
	prgv04	/vol/prgv04/-	NORMAL
		/vol/prgv04/ctiq007	NORMAL
		/vol/prgv04/ctiq008	NORMAL
	prgv05	/vol/prgv05/-	NORMAL
		/vol/prgv05/ctiq009	NORMAL
		/vol/prgv05/ctiq010	NORMAL
	prgv06	/vol/prgv06/-	NORMAL
		/vol/prgv06/ctiq011	NORMAL

Aggregate Name	Volume Name	Qtree Path Name	Qtree State
aggr1	prgv06	/vol/prgv06/ctiq012	NORMAL
	prgv07	/vol/prgv07/-	NORMAL
		/vol/prgv07/ctiq013	NORMAL
		/vol/prgv07/ctiq014	NORMAL
	prgv08	/vol/prgv08/-	NORMAL
		/vol/prgv08/ctiq015	NORMAL
		/vol/prgv08/ctiq016	NORMAL

There are no LUNs found for this system.

SnapMirror / SnapVault Status

SnapMirror State	Source System	Source Path	Destination System	Destination Path
SOURCE	prgctinas001	/vol/prgv01/-	prgctinas001dr	/vol/prgv01/-
SOURCE	prgctinas001	/vol/prgv01/-	prgctinas202a	/vol/prgv01/-
SOURCE	prgctinas001	/vol/prgv02/-	prgctinas001dr	/vol/prgv02/-
SOURCE	prgctinas001	/vol/prgv02/-	prgctinas202a	/vol/prgv02/-
SOURCE	prgctinas001	/vol/prgv03/-	prgctinas001dr	/vol/prgv03/-
SOURCE	prgctinas001	/vol/prgv03/-	prgctinas202a	/vol/prgv03/-
SOURCE	prgctinas001	/vol/prgv04/-	prgctinas001dr	/vol/prgv04/-
SOURCE	prgctinas001	/vol/prgv04/-	prgctinas202a	/vol/prgv04/-
SOURCE	prgctinas001	/vol/prgv05/-	prgctinas001dr	/vol/prgv05/-
SOURCE	prgctinas001	/vol/prgv05/-	prgctinas202a	/vol/prgv05/-
SOURCE	prgctinas001	/vol/prgv06/-	prgctinas001dr	/vol/prgv06/-
SOURCE	prgctinas001	/vol/prgv06/-	prgctinas202a	/vol/prgv06/-
SOURCE	prgctinas001	/vol/prgv07/-	prgctinas001dr	/vol/prgv07/-
SOURCE	prgctinas001	/vol/prgv07/-	prgctinas202a	/vol/prgv07/-
SOURCE	prgctinas001	/vol/prgv08/-	prgctinas001dr	/vol/prgv08/-
SOURCE	prgctinas001	/vol/prgv08/-	prgctinas202a	/vol/prgv08/-
SOURCE	prgctinas001	/vol/vol0/-	prgctinas001dr	/vol/vol0dr_m/-
SOURCE	prgctinas001	/vol/vol0/-	prgctinas202a	/vol/vol0dr_m/-

Network Information

Port Name	Description	IP Address, Subnet Mask	Media Type	VIF Name	Current Interface Speed	Full Duplex	FC Setting, Negotiated	Auto-Negotiate Enabled
e0a	Dual 10/100/1000 Ethernet Controller VI	169.162.179.201 255.255.255.128	auto-1000t-fd-up	gev1	1,000	Full	Full Unknown	On
e0c	Dual 10/100/1000 Ethernet Controller VI	169.162.179.201 255.255.255.128	auto-1000t-fd-up	gev1	1,000	Full	Full Unknown	On

Port Name	Description	IP Address, Subnet Mask	Media Type	VIF Name	Current Interface Speed	Full Duplex	FC Setting, Negotiated	Auto-Negotiate Enabled
e0b	Dual 10/100/1000 Ethernet Controller VI	-					Full Unknown	
e0d	Dual 10/100/1000 Ethernet Controller VI	-					Full Unknown	
e1a	Dual 10/100/1000 Ethernet Controller VII	-					Full Unknown	
e1b	Dual 10/100/1000 Ethernet Controller VII	-					Full Unknown	

iSCSI (Internet Small Computer Systems Interface) Adapter Status

Interface Name	Interface State	Target Portal Group Name	IP Address	ISCSI Port Name
0e	ONLINE		169.162.179.201	

NFS (Network File System) Protocol Usage

NFS calls by Protocol:

Protocol	NFS Calls	Bad Calls	Bad Calls %
TCP	0	0	0.00%
UDP	0	0	0.00%

NFS calls by Version:

NFS Version	NFS Calls	NFS Calls %
NFSv2	0	0.00%
NFSv3	0	0.00%
NFSv4	0	0.00%

CIFS (Common Internet File System): Top 5 CIFS Operations

The "CIFS Stat" command shows CIFS related statistics since the last system reboot. These statistics break down the top 5 CIFS operations.

CIFS operation	CIFS Calls	CIFS Calls %
NTCreateX	100077728	8.00%
find_first2	164794420	13.00%
query_path_info	405274426	33.00%
readX	309856722	25.00%
writeX	46758979	4.00%

MultiStore (vFiler)

vFiler Name	vFiler State	vFiler IP Space	UUID (Universal Unique ID)
-------------	--------------	-----------------	----------------------------

vFiler Name	vFiler State	vFiler IP Space	UUID (Universal Unique ID)
vfiler0	RUNNING	default-ipspace	00000000-0000-0000-0000-000000000000

ASUP (AutoSupport) Status

ASUP Category	Value
autosupport.enable	on
autosupport.mailhost	mailhub-vip.ny.ssmb.com,mailhub-dc1.eu.ssmb.com,mailhub-dc2.eur.nsroot.net
autosupport.noteto	nas.alerts@citi.com
autosupport.support.enable	on
autosupport.support.proxy	webproxy.wlb.nsroot.net:8080
autosupport.support.to	autosupport@netapp.com
autosupport.support.transport	https
autosupport.support.url	support.netapp.com/asupprod/post/1.0/postAsup
autosupport.to	intnas.alerts@imceu.eu.ssmb.com



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