

Oxford Site Report

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Since Last HepSysman: Grid

- DPM Head Node Upgrade to Centos7
 - DPM Head node was migrated to Centos7 on new hardware
 - Puppet managed
 - Went smoothly but required a lot of planning
 - Details in wiki https://www.gridpp.ac.uk/wiki/DPM_upgrade_at_Oxford!
- ARC CE upgrade
 - Upgraded one ARC CE and few WNs to Centos 7
 - Completely managed by Puppet
 - Atlas is still not filling it up

Since Last HepSysman: Local

- Main cluster is still SL6 running torque and maui
- Parallel Centos7 HT Condor based cluster is ready with few WNs'
- A small Slurm cluster is also there !
- Restructuring various data partitions across servers
- Gluster Story

Gluster Story

- Our lustre file system was hopelessly old and MDS and MDT servers were running on out of warranty hardware
- So the option was to move to the new version of lustre or something else
- Some of the issue with lustre
 - Requires separate MDS and MDT servers
 - Need to build kernel every time
 - At the time, there was some confusion whether lustre will remain open source or not

Gluster Story

- Gluster is easy to install and doesn't require any metadata server
- I setup a test cluster and used tens of terabytes to test and benchmark
- The result was comparable to Lustre
- Setup production cluster with almost default configuration
- Happy and rsynced /data/atlas to new gluster
- Still worked OK and then allowed users
- It sucked and was taking 30 mins to do ls !

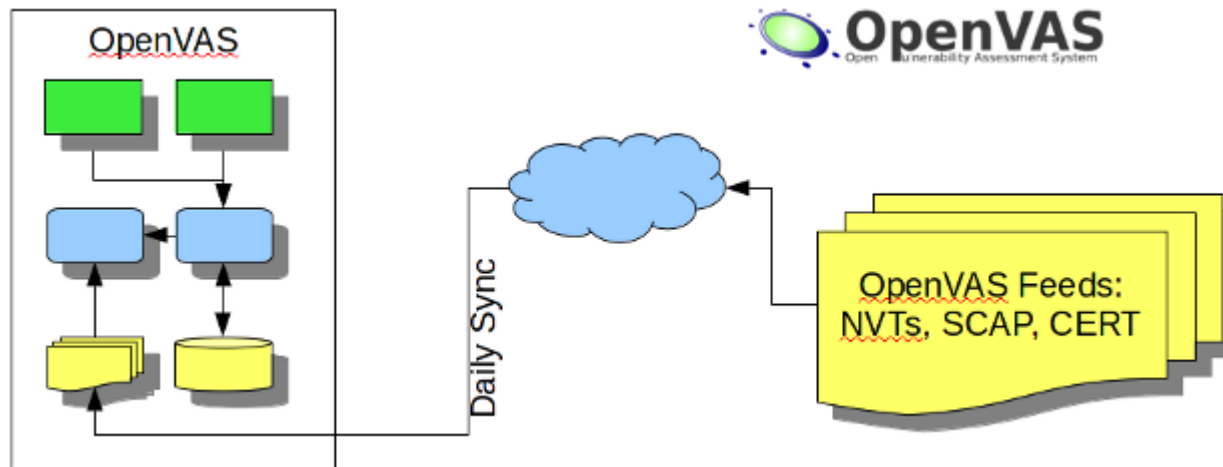
Gluster Story

- Sent SOS on gluster mailing list and did some extensive googling
- Came up with many optimization and at the end it worked
- Performance improved dramatically
- Later added some more servers to the existing cluster and online rebalancing worked very well
- Last week we had another issue ...

Gluster Story: Conclusion

- It doesn't work very well with millions of small files; but I think it is same with lustre
- Supported by RedHat and developers from RedHat actively participate in mailing list
- Our Atlas file system has 480TB storage and more than 100 million files. LHCb has 300TB and much less number of files. I think number of files is an issue as I haven't seen any issue with LHCb

OpenVas: Open Vulnerability Scanner and Manager



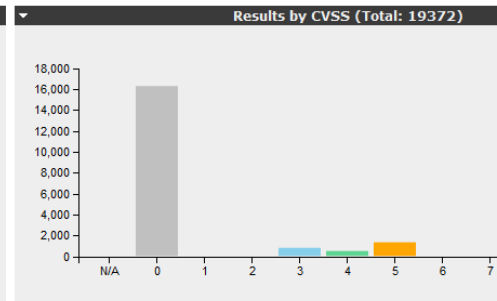
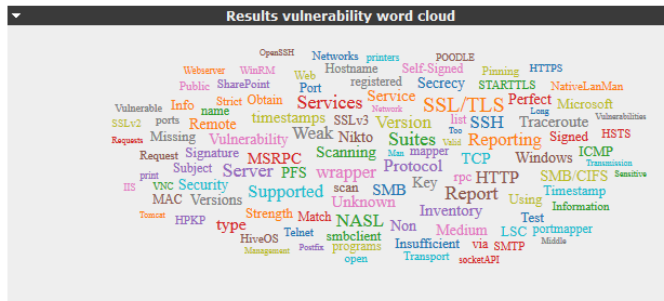
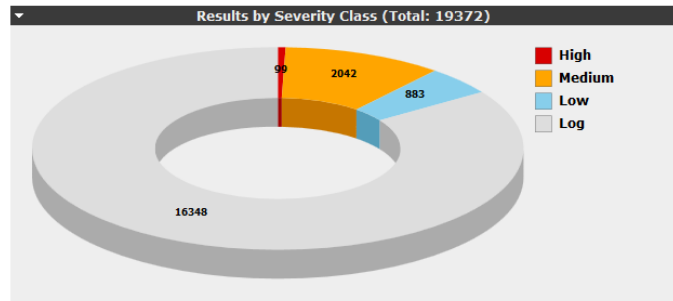
OpenVas



Filter: min_qod=70 apply_overrides=1 autofp=0 rows=10 sort-reverse=created first=1



Results (19372 of 25420)



Vulnerability	Severity	QoD	Host	Location	Created
Check open ports	0.0 (Log)	95%	-----	8081/tcp	Fri Jun 8 22:14:46 2018
CPE Inventory	0.0 (Log)	80%		general/CPE-T	Fri Jun 8 22:14:06 2018
Generic HTTP Directory Traversal	7.8 (High)	99%		8081/tcp	Fri Jun 8 21:54:20 2018
ICMP Timestamp Detection	0.0 (Log)	80%		general/icmp	Fri Jun 8 19:40:10 2018
CGI Scanning Consolidation	0.0 (Log)	80%		8081/tcp	Fri Jun 8 19:40:05 2018
Traceroute	0.0 (Log)	80%		general/tcp	Fri Jun 8 19:10:35 2018
Check open ports	0.0 (Log)	95%		3351/tcp	Fri Jun 8 18:25:03 2018
Check open ports	0.0 (Log)	95%		447/tcp	Fri Jun 8 18:25:02 2018
CPE Inventory	0.0 (Log)	80%		general/CPE-T	Fri Jun 8 18:23:42 2018
Windows LSC Authenticated Scan Info Consolidation	0.0 (Log)	80%		general/tcp	Fri Jun 8 18:23:42 2018

(Applied filter: min_qod=70 apply_overrides=1 autofp=0 rows=10 sort-reverse=created first=1)

Apply

OpenVas

File Edit View History Bookmarks Tools Help
 Ganglia: PP U... Nagios C... Inbox (16... parallel-re... 2018 UK H... Timetable... (12,061 un... #37596: B... apperenti... Managem... [SOLVED] ... IT Self-Regis... Eid Mubar... fitra in UK... Unity Con... Green... x New Tab New Tab +

https://vulscanner.physics.ox.ac.uk:9392/omp?cmd=get_assets&asset_type=os&filter=first=21 rows=10 first=11 rows=10 sort=name&token=8da61d30-fa5b-4660-9faf-70ac79dfc3b0

Greenbone Security Assistant No auto-refresh Logged in as Admin admin | Logout Thu Jun 14 14:52:08 2018 UTC

Dashboard Scans Assets SecInfo Configuration Extras Administration Help

Filter: first=21 rows=10 sort=name

OS Operating Systems (47 of 27)

Operating Systems by Severity Class (Total: 47)

Severity Class	Count
High	7
Medium	20
Low	11
N/A	9

Operating Systems by Vulnerability Score

OS	Vulnerability Score
cpe:/o:microsoft:windows	~1500
cpe:/o:linux:kernel	~1000
.../o:canonical:ubuntu_linux	~500
cpe:/o:cisco	~400
.../o:canonical:ubuntu_linux:14.04	~300
.../o:microsoft:windows_10:1507	~200
.../o:canonical:ubuntu_linux:16.04	~150
.../o:aerohive:hiveos:6.6r2	~100
cpe:/o:freebsd:freebsd	~50
cpe:/o:apple:mac_os_x	~20

Operating Systems by CVSS (Total: 47)

CVSS Score	Count
N/A	9
3	7
4	5
5	12
6	6
7	0
8	4
9	0
10	3

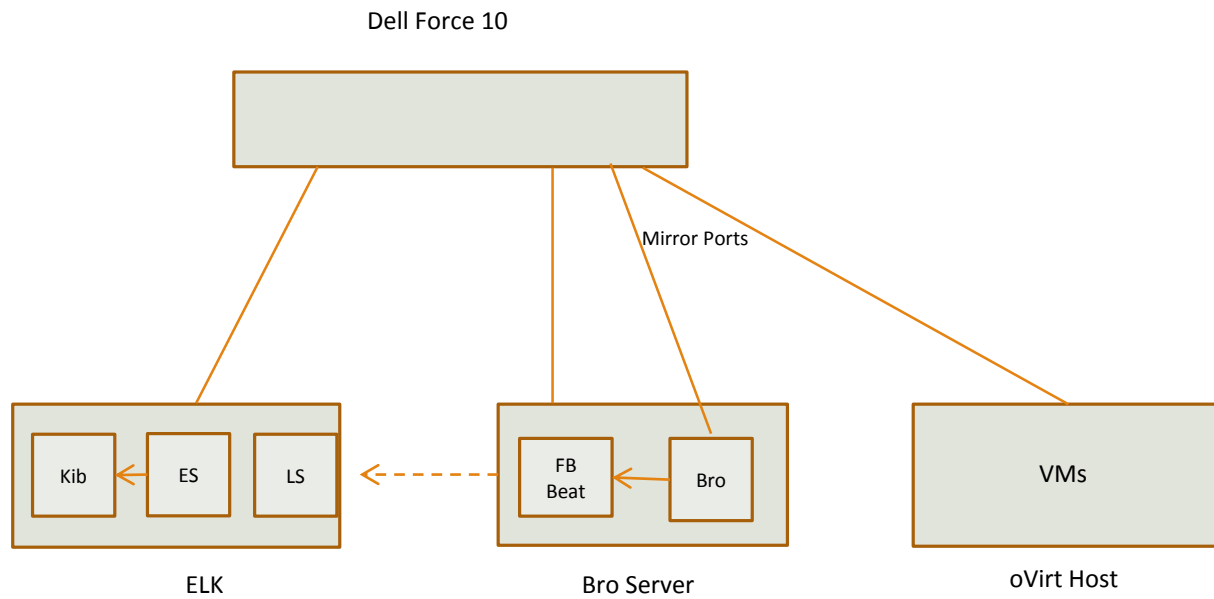
Name	Title	Severity			Hosts	Updated	Actions
		Latest	Highest	Average			
cpe:/o:canonical:ubuntu_linux:10.04		(N/A)	10.0 (High)	10.0 (High)	2	Fri Jun 8 2018	[X] [D]
cpe:/o:canonical:ubuntu_linux:12.04		10.0 (High)	10.0 (High)	10.0 (High)	7	Fri Jun 8 2018	[X] [D]
cpe:/o:canonical:ubuntu_linux:14.04		(N/A)	7.5 (High)	5.01 (Medium)	33	Fri Jun 8 2018	[X] [D]
cpe:/o:canonical:ubuntu_linux:16.04		9.0 (High)	9.0 (High)	4 (Low)	45	Fri Jun 8 2018	[X] [D]
cpe:/o:canonical:ubuntu_linux:18.04	Canonical Ubuntu Linux: 18.04	(N/A)	2.6 (Low)	2.6 (Low)	5	Fri Jun 8 2018	[X] [D]
cpe:/o:centos:centos:6	CentOS-6	7.5 (High)	7.5 (High)	7.5 (High)	1	Wed Jun 6 2018	[X] [D]
cpe:/o:centos:centos:7		5.0 (Medium)	5.0 (Medium)	5.0 (Medium)	1	Tue Jun 5 2018	[X] [D]
cpe:/o:cisco		4.3 (Medium)	4.8 (Medium)	4.38 (Medium)	38	Wed Jun 6 2018	[X] [D]
cpe:/o:debian:debian_linux		5.0 (Medium)	5.0 (Medium)	2.5 (Low)	2	Wed Jun 6 2018	[X] [D]
cpe:/o:debian:debian_linux:7		10.0 (High)	10.0 (High)	10.0 (High)	1	Wed Jun 6 2018	[X] [D]

(Applied filters: first=21 rows=10 sort=name)

Backend operation: 5.33s

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