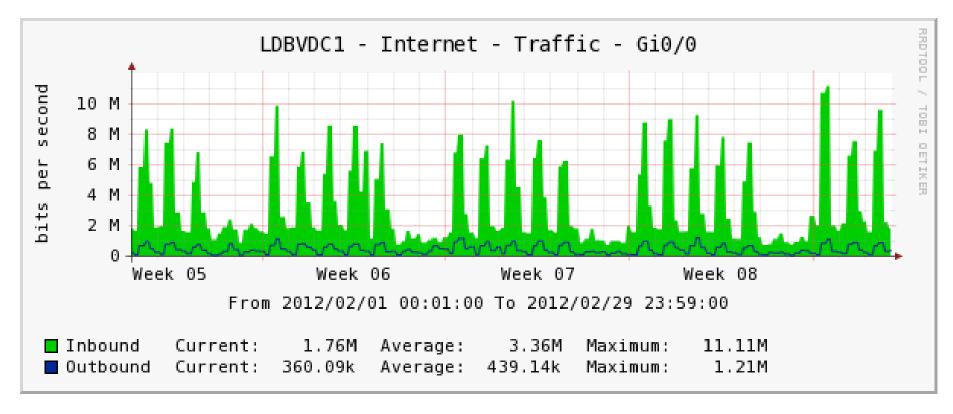
Data Centre Chart Analysis for February 2012

Monthly VDC Bandwidth Graphs – February 2012

Internet Bandwidth – VDC



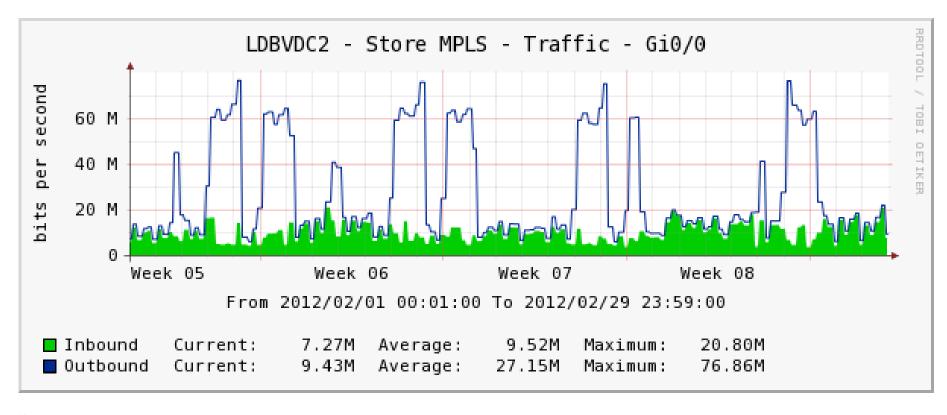
Summary: Graphical view of traffic going through Head Office to the Internet. The maximum traffic allowed is 10Mbs.

Observation: During HO core hours (8:00 to 4:30), Internet link is highly utilize and sustained at 60% of the available bandwidth. Occasionally have seen the bandwidth reach 8 MB/ second.

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Monthly VDC Bandwidth Graphs – February 2012

Bandwidth between HO and Stores



Summary: Graphical view of traffic going through Stores to Head Office via Internet.

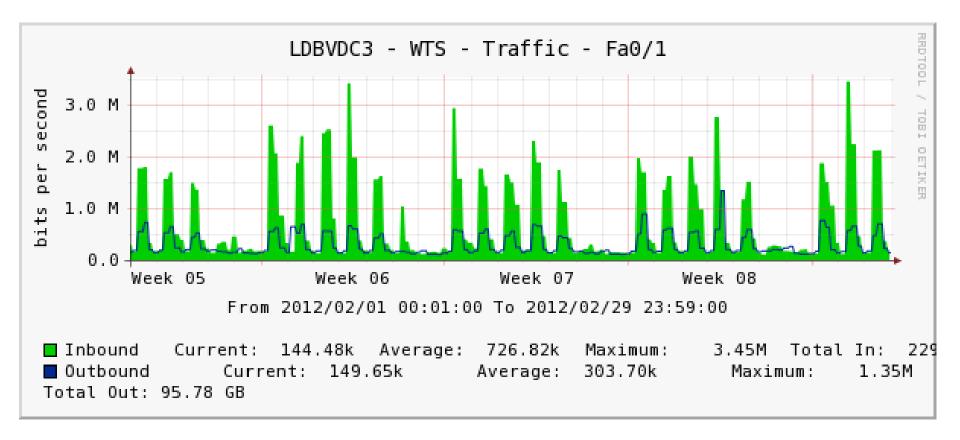
<u>Observation:</u> The beginning of the month the graph shows high utilization because DB backup/restore (refresh) processes for

FBIP and PCI projects. However outside of the DB backup/restore, store traffic e.g. ETN, store orders, patching

is minimal.

Monthly VDC Bandwidth Graphs – February 2012

Bandwidth used for Email, DNS and any Government websites

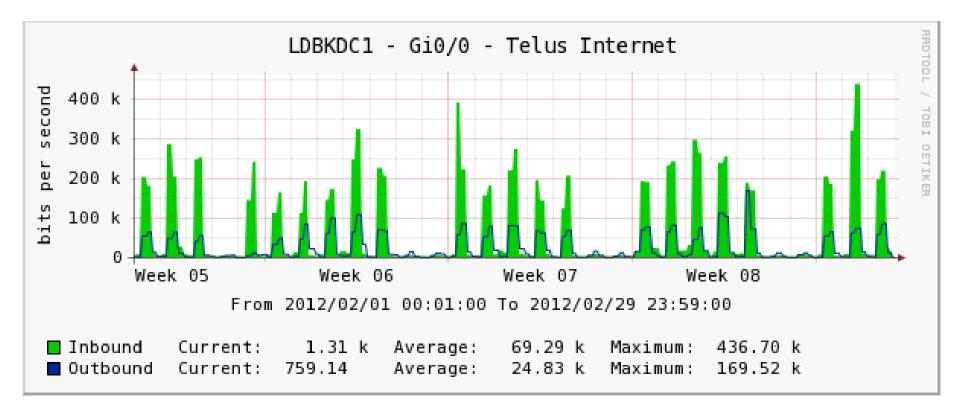


Summary: Graphical view of traffic going through WTS to Head Office via Internet.

Observation: Network utilization of the service above is deemed working within normal parameters.

Monthly KDC Bandwidth Graphs – February 2012

Internet Bandwidth - KDC

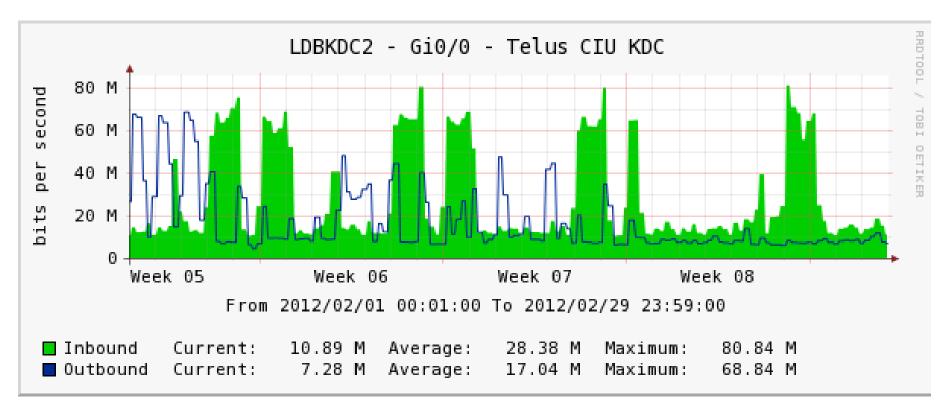


Summary: Graphical view of traffic going through KDC to the Internet.

Observation: Minimal use

Monthly KDC Bandwidth Graphs – February 2012

Bandwidth between KDC and Stores

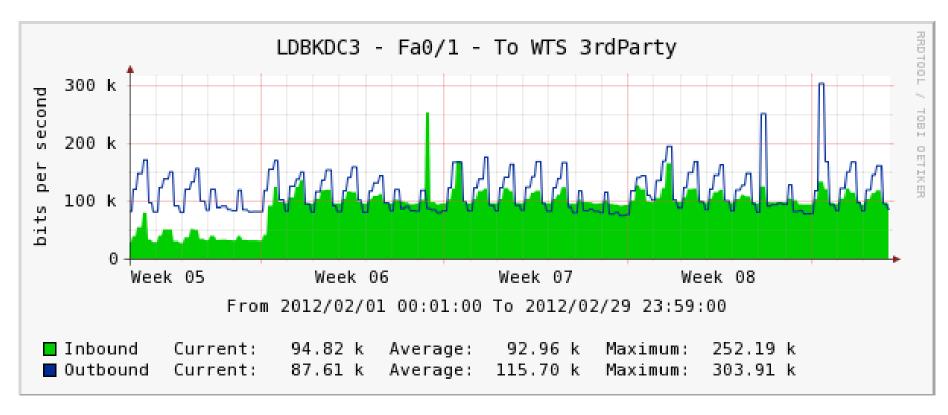


Summary: Graphical view of traffic going through Stores to KDC via Internet.

Observation: See above write-up for LDBVDC2.

Monthly KDC Bandwidth Graphs – February 2012

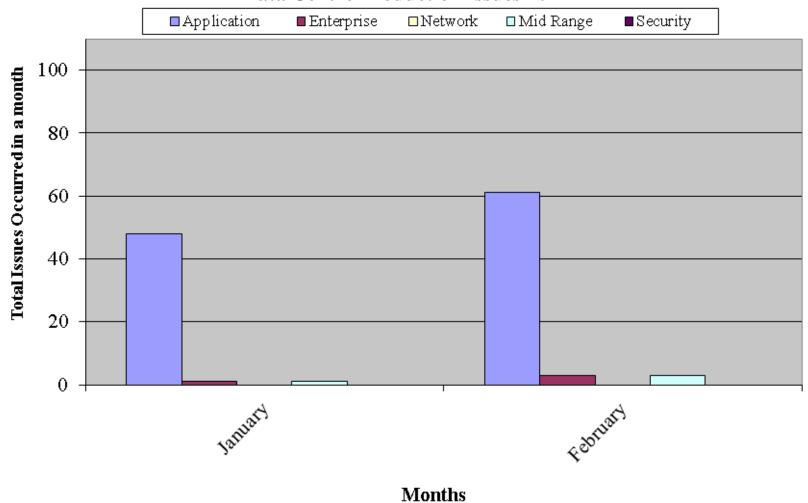
Bandwidth used for Email, DNS, and KDC via WTS



Summary: Graphical view of traffic going through KDC to WTS via Internet.

Observation: Minimal use

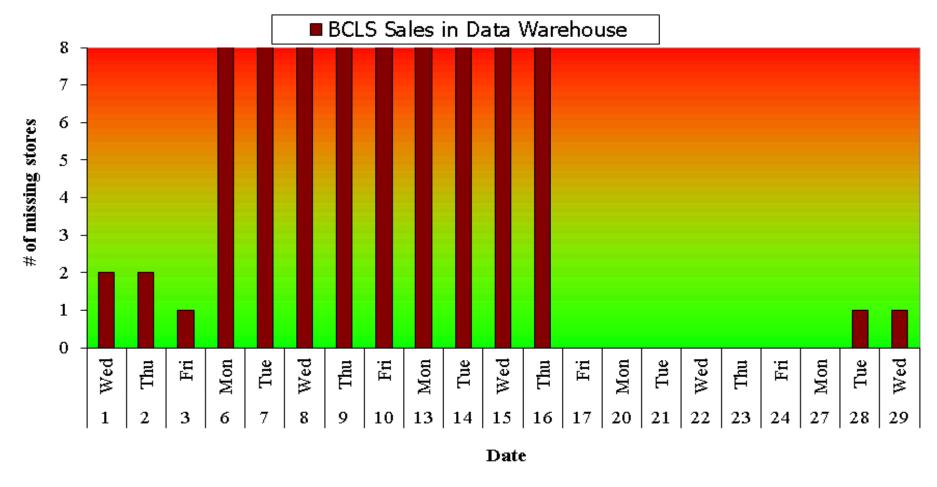
Data Centre Production Issues 2012



<u>Summary:</u> High level graphical view of monthly production issues from January 2012 to February 2012. Input comes from Operations daily status report.

<u>Observation:</u> Majority are application issues of which 67% are Autosys jobs and 25% are run away process (see BMC tickets for more information) for the month of February.

Sales – Finance Data Availability - February 2012



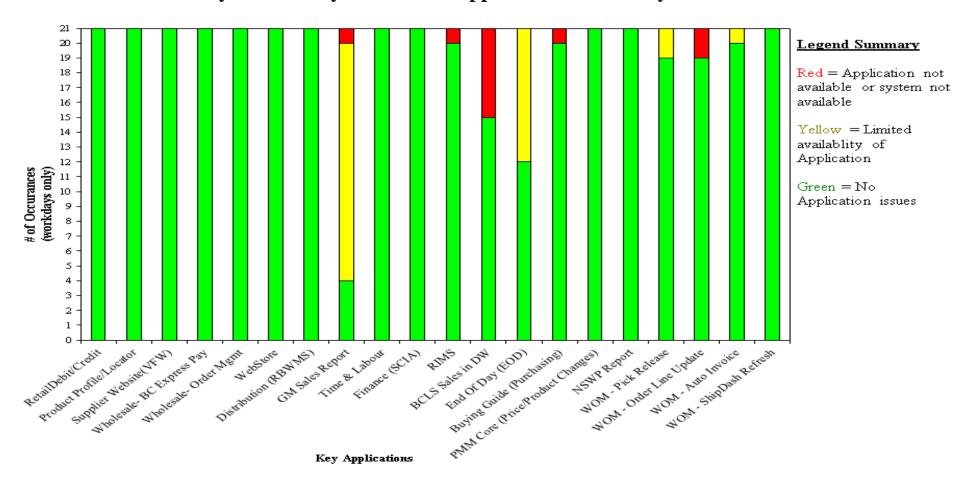
Summary: Graphical view of transmitted BCLS Stores Financial Sales Data to Head Office in Data Warehouse.

Observation: February was a month where FBIP was implemented (Approx Feb. 06) and new procedures were put in place and therefore a lot Data Warehouse Autosys jobs halted (put ON_ICE) until new jobs were being stabilized..

Meantime Sales Data was manually massaged and reported to Jay by the BICC Support Group

Recommendation: To stabilize Data Warehouse in order to get the correct sales data reporting daily via the new automated jobs

Daily Availability of Business Application – February 2012

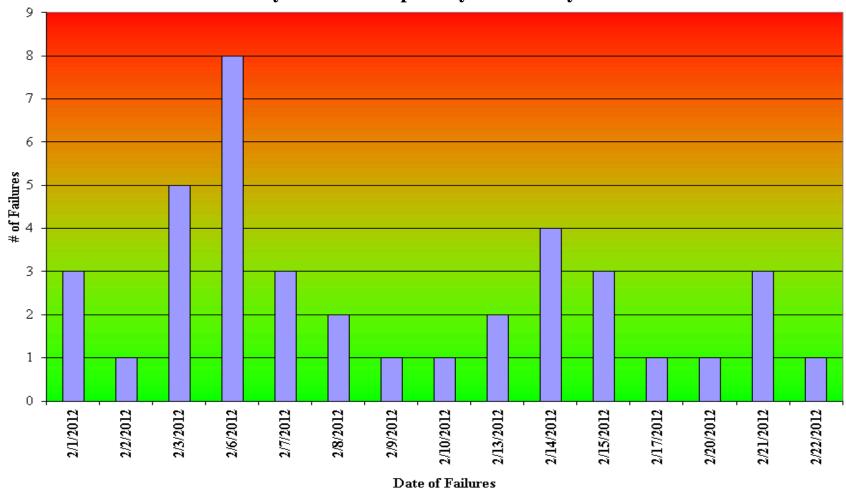


Summary: High level graphical view of Business Applications availability.

Observation: All Yellow (Warnings) and Red (Critical) in GM Sales, BCLS Sales in DW, and EOD etc...are due to FBIP

implementation and stabilization of new procedures including Buying Guide and WOM.

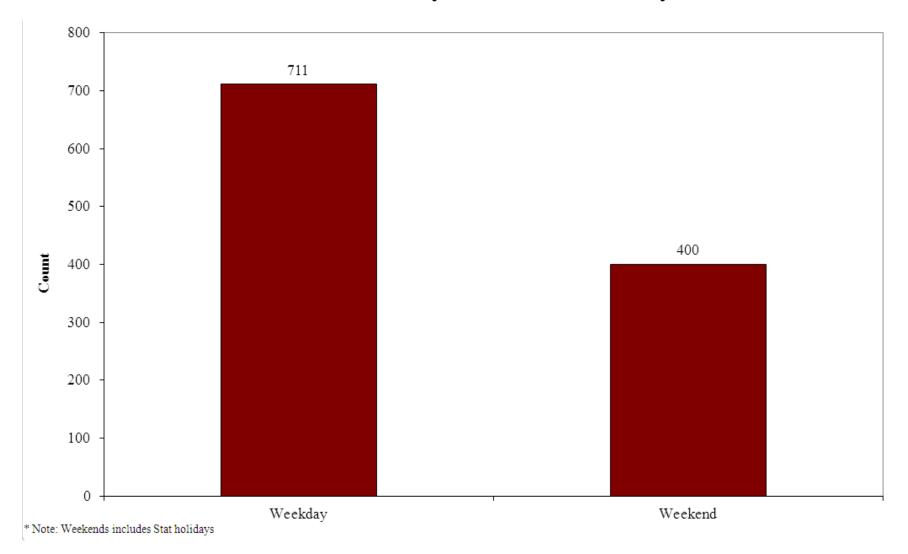
Autosys Jobs failed per day – February 2012



Summary: High level graphical view of Production Autosys Job failures for the month of February 2012.

Observation: February 6th – a lot of the new FBIP related Autosys jobs failed as expected and Autosys itself. See BMC # 465514, 465624, 465643, 465764, 465750, 465643, and 465741.

Remote Access on Weekday vs. Weekend – February 2012

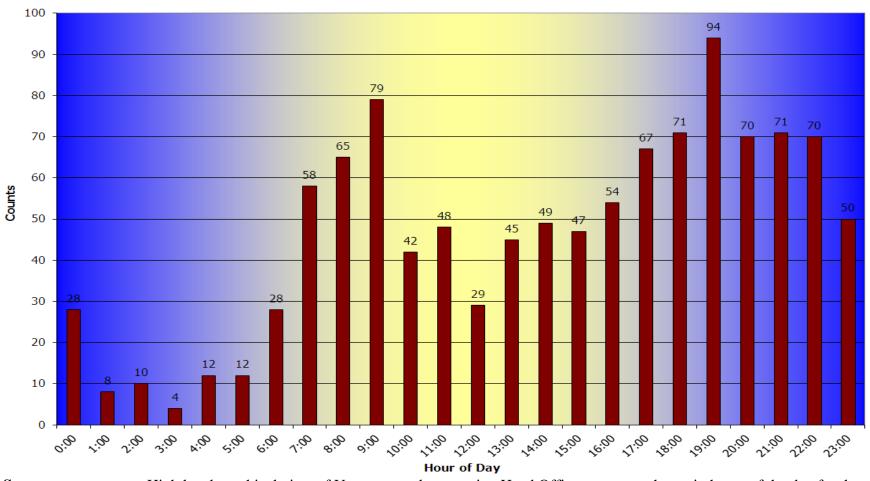


Summary: High level weekday and weekend graphical view of Users remotely accessing Head Office resources.

Observation: More people accessing Head Office resources during the Weekday due to FBIP implementation

Remote Access by Hour of Day – February 2012

Login by Connectra



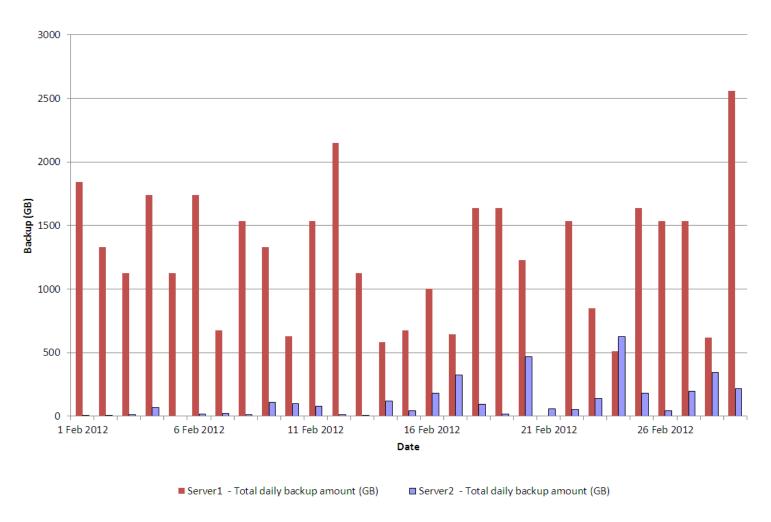
Summary:

High level graphical view of Users remotely accessing Head Office resources shown in hours of the day for the month of February 2012.

Observation:

More people accessing Head Office resources in the morning (between 7am - 11am) and again in the afternoon thru to the late evening (2pm - 11pm). *** Note: Currently capacity for concurrent users is 50.

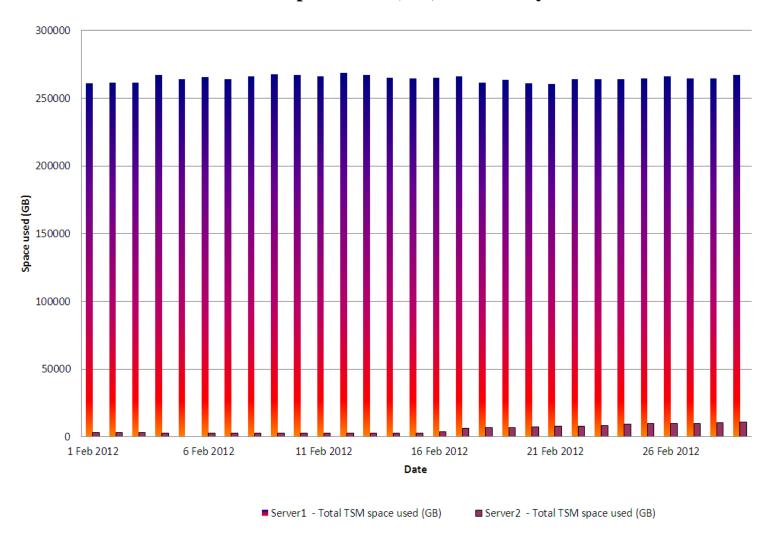
Total Daily Backup Amount (GB) – February 2012



Summary: High level graphical view graphical view of TSM Daily Backup for the month of February.

<u>Observation:</u> February 29th – 2.5TB of SAN storage data was backed up on TSM. 1.5TB of SAN storage as transitional data constantly increases/decreases as data is migrated to tape.

Total TSM Space Used (GB) – February 2012

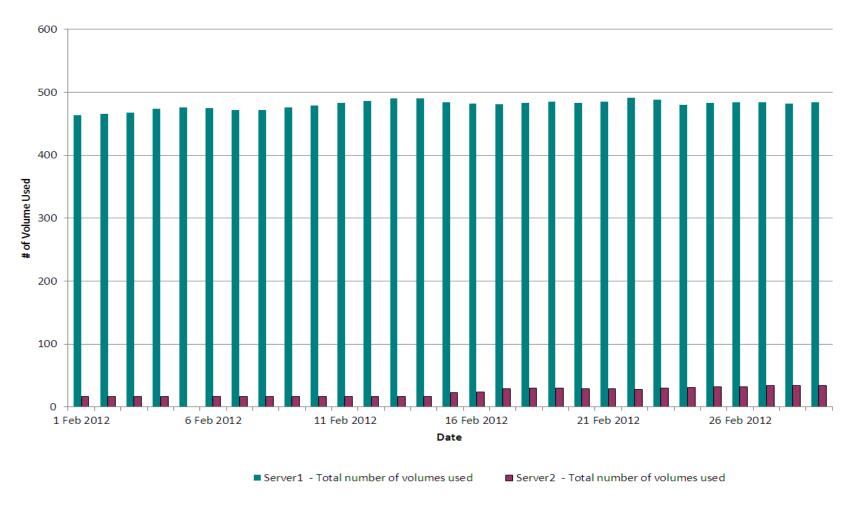


Summary: High level graphical view of data stored on TSM per day for the month of February.

Observation: Space used is relatively the same however as data of Oracle database has grown so is space required to be backed up.

Recommendation: To reduce the number of tapes in library and in Iron Mountain and take advantage of higher transfer rates of new LTO5 so that quadruple data that can be backed up.

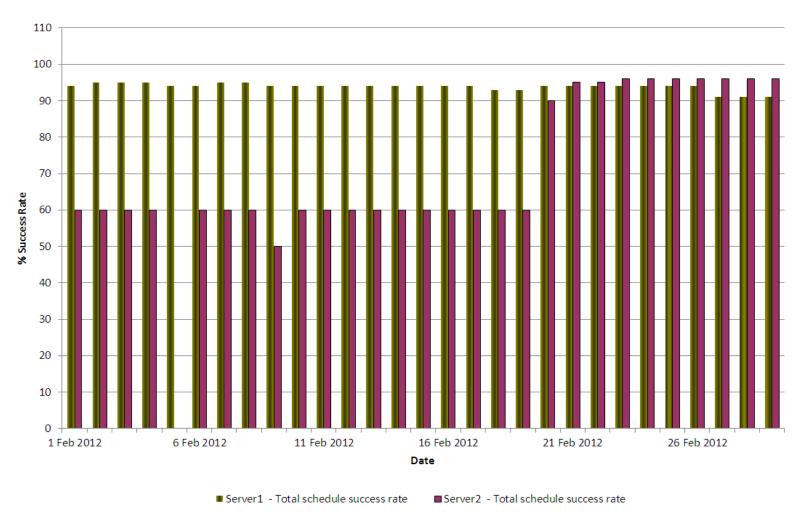
Total Number of Volumes Used – February 2012



Summary: High level graphical view of TSM using the number of volumes in a day for the month of February.

Observation: Currently there is 451 tape volumes used by TSM to backup data which includes combination of LTO3 and LTO4. This includes tapes stored offsite. Each LTO4 tape holds 1.5TB. The library has 253 tape slots and 236 of them are in use. Vault capacity is infinite as we continue to order tapes as required.

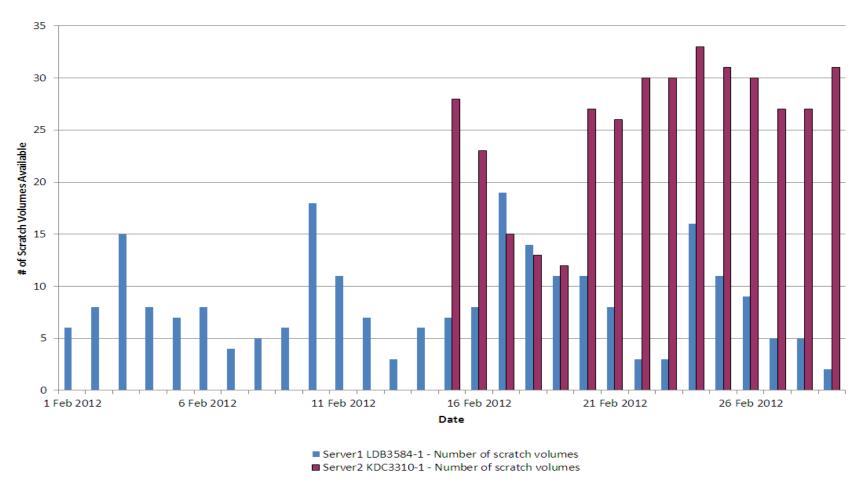
Total Schedule Success Rate – February 2012



Summary: High level graphical view of TSM being successful in completing the backups on a daily basis for the month of February.

Observation: Current known client failures are servers LDBPD01, LDBPD02, KDCTDFS01 and KDCTDFS01 are having problems.

Number of Total Scratch Volumes (available for use) – October 2011



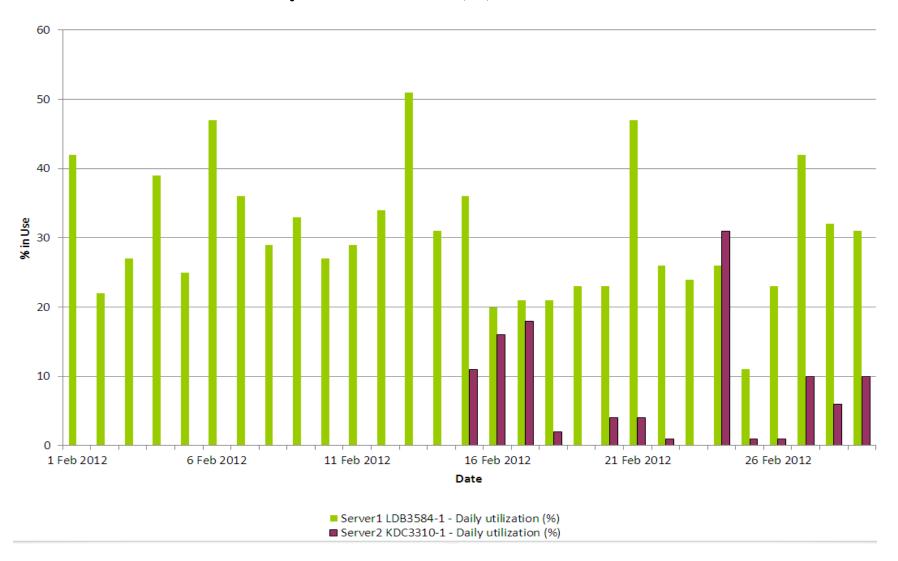
Summary:

High level graphical view of TSM being successful in completing the backups on a daily basis for the month of February. This now include both VDC and KDC.

Observation:

Each Weekend number of scratched tapes becomes available due to data being deleted by DBA's, data expiring or utilizing new tapes. (Note: data deleted by DBA's for Oracle databases backups on regular basis which are older than 40 days or expires). Mid February all KDC server backups are now being backed up on the KDC TSM server.

Daily TSM Utilization (%) – October 2011



Summary: High level graphical view of TSM Tapes being mounted each day for the month of February.

Observation: TSM is highly utilized on the weekends and starting mid-February KDC is being utilized for daily KDC server backups on KDC TSM Server.

End of Data Centre Chart Analysis for February 2012