"Storage", TSM szekció

2014. szeptember

Menü (Akvamarin terem)

9:30 - 10:00 Hasznos TSM-es Linkek "10" percben

10:00 - 10:30 TSM kerekasztal, kötetlen beszélgetés

10:30 - 10:50 Kávészünet

10:50 - 11:35 Hatékony TSM üzemeltetés (Kósa Barna)

11:35 - 12:20 TSM v7.1.1 (Paul Weston)

12:20 - 13:20 Ebéd

Integration Toolbox for IBM Tivoli Storage Manager

· IBM Integrated Service Management Library

http://www-304.ibm.com/software/brandcatalog/ismlibrary/details?catalog.label=ITWIOSM59

· http://www.toolboxfortsm.com/



Overview | Gatting started | Libensing | Contact



Integration Toolbox for IBM® TIVOLI® Storage Manager

Create structured and modern TSM based backup and archive solutions

OVERVIEW

GETTING STARTED

LICENSING

CONTACT



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growing and it also speeds up development of TSMSSEM token, application by supporting montemporar programming patterns. Teached holder

- Insuring the second state of the second state of the second secon
- Object oriented event based imperior: use the original machanism to start actions based on external business events.
- Patrice program rade use the same source on ever elettron.
- Steam based object handling use standard (swistments) to conduct the constant.
- Object energed hadrup grouping manage TSW badds groups as joys objects.

How to got stated - five, vontry greater digit integrals include or BV - or distring Manage, processed on Consideration of the process of the

Supported placforms:

- Red Facility Enterprise Linux 8.5 (% b);
- Red hot@ th tarping thrus@ 6 %4 bit
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- * I-VINDS / 1
- Minosofit Win, seeb Server 2009 P2, r64 or its
 Microsofit Windows Disease 2012 r64 advices
- Microsoft& windows \$7,463 and \$61 ask on

Open requestive provide the Too box on any platform supported by TSV AP and not level have

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Hasznos TSM-es Linkek 10 percben

- · Letöltések
- · IBM-es hirlevlél
- · IBM developerWorks
- . TSM FAQ (Boston University)
- · Fórum (adsm.org)
- · Blog-ok...

Letöltések

IBM HTTP:

http://service.boulder.ibm.com/storage/tivoli-storage-management/

http://www-947.ibm.com/support/entry/portal/all_download_links/ tivoli/tivoli_storage_manager?productContext=-2105539168

IBM Fixcentral:

http://www.ibm.com/support/fixcentral/

1BM-es TSM ninlevél

e-mail: itivinfo@us.ibm.com
 tárgy: subscribe Tivoli Storage Manager

Most Recent News and Flashes

- Potential problems when the Tivoli Storage Manager server processes files greater than the MAXFRAGMENTSIZE setting
- Security Bulletin: TSM client metadata local unauthorized access (CVE-2013-6335)
- Security Bulletin: TSM client SetUID elevation of privilege (CVE-2014-0907)
- Security Bulletin: A potential denial of service vulnerability affects Liberty in Tivoli Storage Manager Operations Center (CVE-2014-0050)

Latest Technotes and FAQs

- ANR2969E Database restore terminated. DB2 sqlcode: -2033. DB2 sqlerrmc: 168
- ANR2020E BACKUP NODE: Invalid parameter -
- . Troubleshooting the startup of Operations Center service on Windows platform
- ANS4007E Error processing \\ access to the object is denied
- · Commented entries in sysctl.conf can result in server install failure
- · Unsigned application error when starting the TEP web client
- Installation of Tivoli Monitoring for Tivoli Storage Manager V6.3.5 and earlier fails on the SuSE Linux Enterprise Server operating system
- Insertdb doesn't progress during version 5 to version 6.x or 7.x upgrade
- Unexpected media wait times for some sessions
- Extending Tivoli Storage Manager server database filesystems on AIX
- · How to use space more efficiently in a VTL
- TSM Journal Based Backup FAQ
- . Number of replicated files incorrect in QUERY REPLNODE command

Latest Downloads and Fixes

Latest Downloads and Fixes

- Number of replicated files incorrect in QUERY REPLNODE command
- TSM Journal Based Backup FAu

1BM developerWorks

Welcome to the Tivoli Storage Manager wiki

- · Tivoli Storage Manager for Virtual Environments
- · TSM Virtual Appliance
- Forum



TSM FAQ (Boston University)

ADSM/TSM QuickFacts (5.425.003 bytes!!!) http://people.bu.edu/rbs/ADSM.QuickFacts

ADSM/TSM QuickFacts in alphabetical order, supplemented thereafter by topic discussions

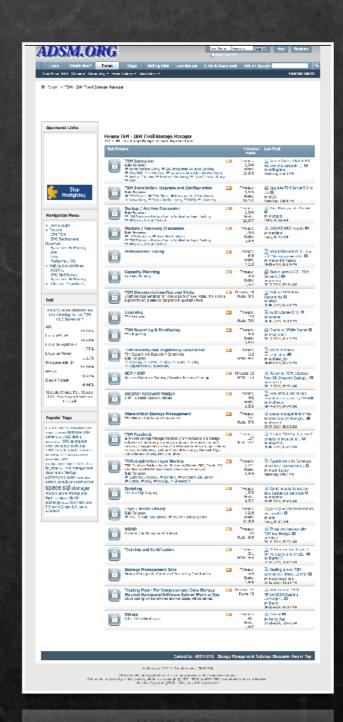
as compiled by Richard Sims,
Boston University (www.bu.edu), Information Services & Technology
On the web at http://people.bu.edu/rbs/ADSM.QuickFacts

Last update: 2013/10/04

This reference was originally created for my own use as a systems programmer's "survival tool", to accumulate essential information and references that I knew I would have to refer to again, and quickly re-find it. In participating in the ADSM-L mailing list, it became apparent that others had a similar need, and so it made sense to share the information. The information herein derives from many sources, including submissions from other TSM customers. This, the information is that which everyone involved with TSM has contributed to a common knowledge base, and this reference serves as an accumulation of that knowledge, largely reflective of the reality of working with the TSM product as an administrator. I serve as a compiler and contributor. This informal, "real-world" reference is intended to augment the formal, authoritative documentation provided by Tivoli and allied vendors, as frequently referenced herein. See the REFERENCES area at the bottom of this document for pointers to salient publications.

Forum - adsm.org

ADSM.org - Storage Management Technical Forum



BL09-041.

- Tivoli-UG, TUG: http://tivoli-ug.org/tech-zones/storage-management/b/weblog/
 2014. szeptember
- Tommy Hueber: http://www.tsmblog.org/
 2014. augusztus
- · Chad Small: http://www.tsmadmin.com/ 2014. augusztus
- http://www.tsmguru.com/ 2013. február
- http://tsm62.blogspot.hu/
 2013. május





BL09-011.

- https://rogerluethy.wordpress.com/tag/tsm/
 2014. szeptember
- Anil K Y Ommi: http://www.tsmtutorials.com/
 TSM Video Tutorials
 2014. augusztus
- Magyar! Soltész Zoltán
 http://vmware-tsm.blogspot.hu/
 2013. augusztus
- Jackie Chen's IT Workshop http://jackiechen.org/tag/
 LSM/
 2014. április

Valami Lérdés?

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TSM kerekasztal, kötetlen beszélgetés!!!

- TDP
 Oracle, MS Exchange, MS SQL, MS SharePoint(DocAVE), Lotus
 Domino, VMware, SAP
- · VSS/Snapshot
- · Space Management, HSM (Windows, UNIX)
- · Tivoli Storage FlashCopy Manager
- · Undocumented commands
- · Trace client/server
- DRM, BRM, ...

TSM kerekasztal, kötetlen beszélgetés 🄅

· sebességverseny

| Start | End | #Proc | Node | #E/A/F | #Bytes | Time | Speed | Idle | MedW | P | Suc |
|--|----------|---------|---------------------|--------|--------|------|----------------------|------|------|---------|------------|
| xxxx-xx-xx xx:xx:xx | | | | | | | xxxxxxx | | | | |
| xxxx-xx-xx xx:xx:xx 2014-09-07 05:15:47 | | | | | | | xxxxxxxx 262 MB/s | | | | YES |
| | | | | | | | | | | | |
| · xxxx-xx-xx xx:xx:xx | xx:xx:xx | xxxxxx | xxxxxxxxxxxxxxx | x/x/x | xxxxxx | xxxx | xxxxxxx | xxxx | xxxx | хх | xxx |
| xxxx-xx-xx xx:xx:xx 2014-09-08 16:09:43 | | | | | | | xxxxxxx 203 MB/s | | | xx 1 | XXX YES |
| | | | <u>-</u> | | | | | | | | |
| | | | | 1 1 | | | | | | | |
| xxxx-xx-xx xx:xx:xx 2014-09-11 03:03:31 | 03:59:50 | 3775752 | XXXX_ORA (XXXXORAX) | 0/1/0 | | | 218 MB/s | | | | YES |
| <pre>xxxx-xx-xx xx:xx:xx .</pre> | xx:xx:xx | XXXXXX | xxxxxxxxxxxxxxxx | x/x/x | XXXXXX | XXXX | xxxxxxx | XXXX | XXXX | XX | XXX |
| | | | | | | | | | | | |

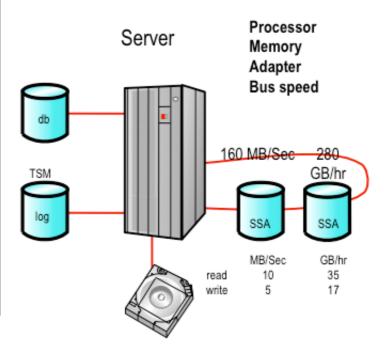
Speed II.

Network Characteristics

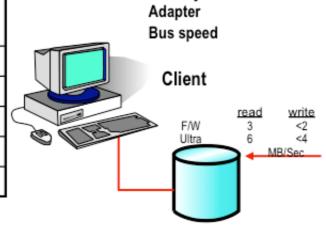
Network

| | Mbps | MB/sec | GB/hr w → | % Efficiency |
|-------------|------|--------|-----------|-----------------|
| Ethernet | 10 | 1.25 | 1.8 | 40 |
| Token Ring | 16 | 2 | 5.7 | 80 |
| Ethernet | 100 | 12.5 | 18 | 40 |
| FDDI | 100 | 12.5 | 35.2 | 80 |
| АТМ | 155 | 19.4 | 34.1 | 50 |
| SPSwitch | | 150 | 432 | 80 |
| Т3 | 45 | 5.6 | 15.8 | 80 |
| T1 | 1.54 | 0.2 | 0.54 | 80 |
| Gb Ethernet | 1000 | 125 | 352 | 80 |

| Where | is | the | hott | leneck? |
|---------|----|-----|---------------|---------|
| VVIICIC | 10 | uiv | \mathcal{L} | |



| SCSI | Native | GB/hr | | |
|-----------|--------|-------|--|--|
| Bus | Speed | @ 70% | | |
| Type | MB/sec | | | |
| F/W | 40 | 100.8 | | |
| Ultra/W | 40 | 100.8 | | |
| Ultra 2/W | 80 | 201.6 | | |
| Ultra 3/W | 160 | 403.2 | | |
| Ultra 320 | 320 | 806.4 | | |



Processor Memory

| Drive Type | Native Speed MB/sec | GB/hr @ 80% |
|------------|---------------------------|----------------|
| 3590H | 14 | 40.32 |
| 3580 Ult 1 | 15 | 43.20 |
| 3580 Ult 2 | 35 | 100.8 |
| 3580 UIt 3 | 80 | 230.4 |
| 3592 | 40 | 144 |

| 3592 | 40 | 144 |
|------------|----|-------|
| 3580 Ult 3 | 80 | 230.4 |

Speed III.

| | Generation | | | | | | | | | |
|--------------------------|------------|--------|--------------------|--------|-----------------------|-----------------------|--------------------------------|------------------------|--|--|
| Attribute | LTO-1 | LTO-2 | LTO-3 | LTO-4 | LTO-5 | LTO-6 | LTO-7 | LTO-8 | | |
| Release Date | 2000 | 2003 | 2005 | 2007 | 2010 | TBA ^[6] | TBA | TBA | | |
| Native Data Capacity | 100 GB | 200 GB | 400 GB | 800 GB | 1.5 TB ^[7] | 3.2 TB ^[8] | 6.4 TB ^[6] | 12.8 TB ^[6] | | |
| Max Speed (MB/s) | 20 | 40 | 80 | 120 | 140 | 270 ^[9] | 315 ^[6] | 472 ^[6] | | |
| Compression Capable? | | | Yes | "2:1" | | Pla | Planned "2.5:1" ^[6] | | | |
| WORM Capable? | No Yes | | | 'es | Planned | | | | | |
| Encryption Capable? | No Yes | | | Yes | Planned | | | | | |
| Partition Capable? | | No | (1) | | Yes (2) | Planned | | | | |
| Tape Thickness | 8.9 | μm | 8 μm 6.6 μm 6.4 μm | | | | | | | |
| Tape Length | 609 | m | 680 m 820 m 846 i | | 846 m | | | | | |
| Tape Tracks | 384 | 512 | 704 | 896 | 1280 | | | | | |
| Write Elements | 8 | 3 | | 1 | 6 ^[7] | | | | | |
| Wraps per Band | 12 | 16 | 11 | 14 | 20 ^[7] | | | | | |
| Linear Density (bits/mm) | 4880 | 7398 | 9638 | 13250 | 15142 ^[10] | | | | | |
| Encoding | RLL 1,7 | RLL 0 | 0,13/11; PRML R | | RLL 32/33; PRML | | | | | |

Sepesség

- · http://en.wikipedia.org/wiki/List_of_device_bit_rates
- TSII40 (3592)
 Native sustained data rate (uncompressed) 250 MBps Burst data rate 800 MBps
 Adaptive instantaneous data rates 13 speeds, from 76 MBps to 251 MBps, for 3592 JC/JK/JY cartridges initialized in Gen 4 format
- TS1060
 Native data transfer rate 160 MBps; 576 GB/hour
 Dynamic speed matching at one of fourteen speeds: 160.0, 150.8, 141.5, 132.3, 123.1, 113.8, 104.6, 95.4, 86.2, 76.9, 67.7, 58.5, 49.2 or 40.0 MB/s

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