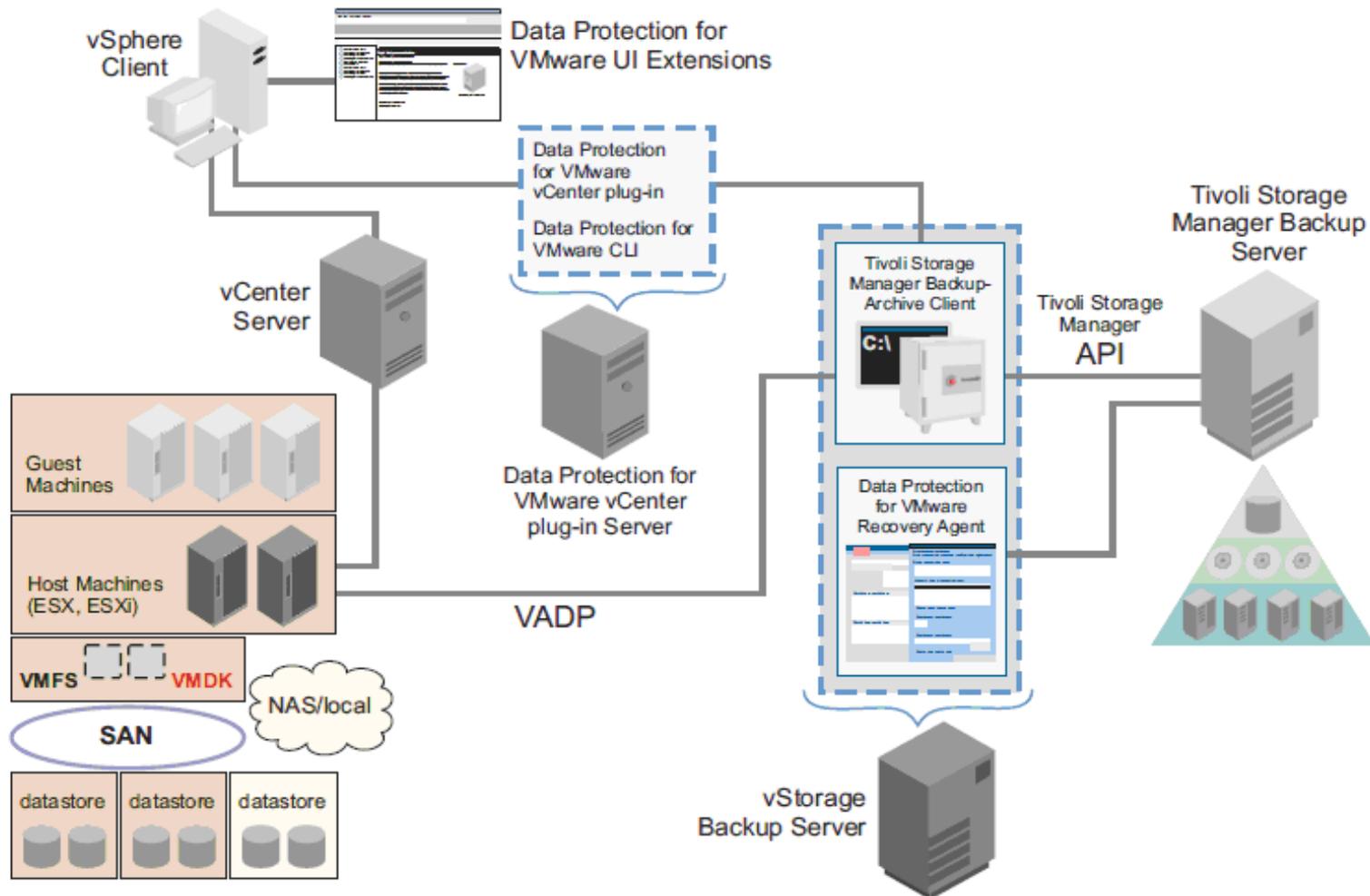


Tivoli Storage Manager for Virtual Environments v6.4

Lessons learned during implementation



IBM's overview TSM4VE



Simp



```

C:\> Select Command Prompt

Starting Full VM backup of Virtual Machine 'win2003x64 - nanoclone1'

Backing up Full VM configuration information for 'win2003x64 - nanoclone1'
    12,218 VM Configuration [Sent]
Processing snapshot disk [less800_svt2] win2003x64 - nanoclone1/win2003x64 - nano
clone1.umdk (Hard Disk 1), Capacity: 12,884,901,888, Bytes to Send: 12,884,901,8
88 (san)[sending]
[2011-06-01 16:50:06.064 04820 trivia 'ThreadPool'] PrepareToWait: Starting new
thread
Volume --> 12,884,901,888 Hard Disk 1 [Sent]
Backup processing of 'win2003x64 - nanoclone1' finished without failure.

Total number of objects inspected:          1
Total number of objects backed up:         1
Total number of objects updated:           0
Total number of objects rebound:          0
Total number of objects deleted:           0
Total number of objects expired:           0
Total number of objects failed:            0
Total number of subfile objects:           0
Total number of bytes inspected:           12.00 GB
Total number of bytes transferred:         12.00 GB
LanFree data bytes:                        12.00 GB
Data transfer time:                        407.76 sec
Network data transfer rate:                30,858.22 KB/sec
Aggregate data transfer rate:              16,480.91 KB/sec
Objects compressed by:                     0%
Total data reduction ratio:                0.00%
Subfile objects reduced by:                0%
Elapsed processing time:                   00:12:43

Successful Full VM backup of Virtual Machine 'win2003x64 - nanoclone1'

```

During backup:

- SAN transport is usually faster than over-the-network backup;
- For array-based storage, SAN transport is often the best performing choice for backups when running on a physical proxy.

But during restore:

- SAN transport is not always the best choice for restores;
- It offers the best performance on thick disks, but the worst performance on thin disks, because of round trips through the disk manager APIs, AllocateBlock and ClearLazyZero;
- For thin disk restore, NBDSSL is usually faster, and NBD is even faster;
- Changed Block Tracking (CBT) must be disabled for SAN restores;
- SAN transport does not support writing to redo logs (snapshots or child disks), only to base disks.

Best practices when using advanced transport for backup and restore (1035096)

http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1035096

'BACKUP VM':

- DOMAIN.VMFULL=<narrow focus>
- VMMAXP=5
- VMLIMITPERHOST=5
- VMLIMITPERDATASTORE=5
- MAXNUMMP of datamover node > 5

- VMware Templates
- testflag VMBACKUP_CBT_RESET

ANS1715E A filespace already exists for VM (VMNAME), but with a different VM uuid (UUID) than the current one (UUID)

- TSM DB is storing the UUID of VM;
- Compares it at every backup.

- Manually edit VMware configuration file (uuid.bios in .vmx file);
- Delete filespace for this VM from TSM;
- Testflag VMBACKUP_UPDATE_UUID;

TSM Queries vCenter for UUID instead of storing it.

vCenter Plug-in Reporting Enhancements - I



- Getting Started
- Summary
- Backup
- Restore
- Reports
- Configuration

- View:**

This table shows the amount of space that is occupied by backups of Tivoli Storage Manager client nodes on the Tivoli Storage Manager server. The client nodes represent VMware data center objects.

[Learn more...](#)



Name	Occupancy	Virtual Machines	Virtual Machines Backed Up
Datacenter	10.11 TB	987	461

vCenter Plug-in Reporting Enhancements - II



Getting Started | Summary | Backup | Restore | **Reports** | Configuration

View: Events | Recent Tasks | **✓ Backup Status** | Datacenter Occupancy

This table shows the backup status for each VM that is managed in the VMware data center domain.
[Learn more...](#)

Select a data center:
ARC Lab

Select a report:
Backup status for all VMs

Generate Report

VM Name	Status	Last Backup End	Backup Duration	Backup Currency	Last N
DigcamClean01	✓ Success	November 5, 2012 10:47:00 AM PST	00:13:52	4d 03:52:01	
DigcamClean02	⚠ Aged	October 24, 2012 10:16:36 PM PDT	00:05:13	15d 16:22:25	
DigcamClean03	⚠ Aged	October 24, 2012 10:02:26 PM PDT	00:00:10	15d 16:36:35	
donut1	⚠ Aged	October 23, 2012 11:22:48 PM PDT	00:00:49	16d 15:16:13	
donut1_clone	ℹ Deleted				
donut1_restore10	✗ No Backup				
donut1_test10_clone	✗ No Backup				
donut1_test11	✗ No Backup				
donut2_clone	⚠ Aged	October 23, 2012 10:36:24 PM PDT		16d 16:02:37	
DOS63x32 - host14	⚠ Aged	October 24, 2012 10:01:19 PM PDT	00:00:02	15d 16:37:42	
DOSvmtest	⚠ Aged	October 25, 2012 6:16:09 AM PDT	00:00:42	15d 08:22:52	
Drift-PC	⚠ Aged	October 25, 2012 4:29:35 AM PDT	00:01:47	15d 10:09:26	



IBM has clearly put a lot of time and effort into TSM for VE and that hard work is paying off: IBM has established TSM's position as one of the preeminent data protection platforms for virtualized environments.



Announced: IBM Tivoli Storage Manager for Virtual Environments (TSM4VE) v6.4



Posted on [October 3, 2012](#)

[Print](#) [PDF](#) [Email](#)

Today (October 3rd, 2012) IBM Tivoli Storage Manager (TSM4VE) v6.4 is announced. The software will be GA available for download **November 16, 2012**.

On a historic note: the GA date of TSM4VE v6.2 was November 18, 2011.

The GA date of TSM4VE v6.3 was March 18, 2011.

If a product launches its 3rd version within approx. 18 months, then development is running hot. So what's new in TSM4VE v6.4?

Note that TSM4VE has skipped version v6.1 altogether. This is because the VADP integration is introduced to the VMware Backup Tools part of the TSM B/A Client since v6.2.

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Fragen?