



VDBENCH Scripts: Configuring Host Storage

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SNIA Emerald™ Training

*SNIA Emerald Power Efficiency
Measurement Specification,*
for use in EPA ENERGY STAR®

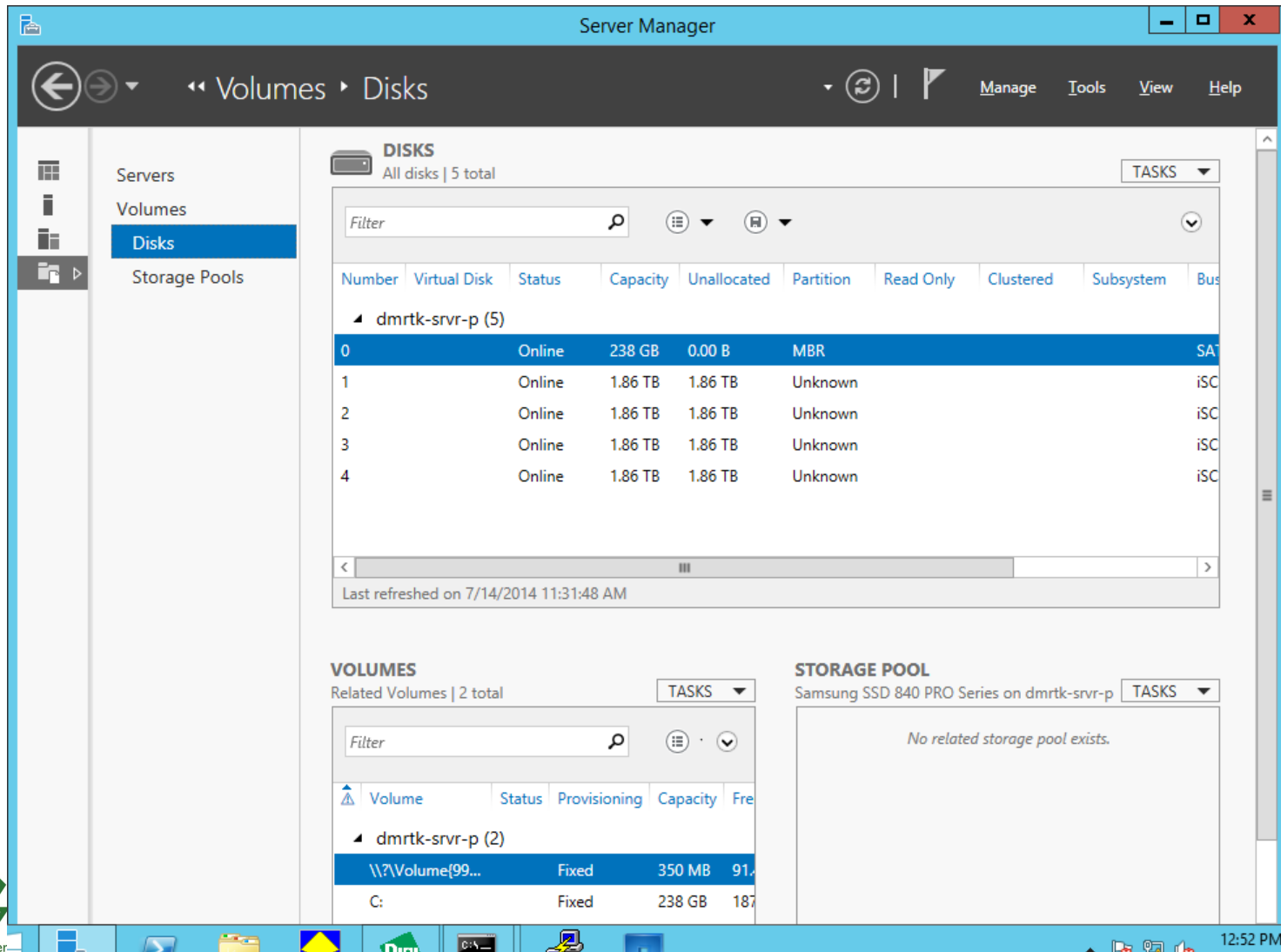
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Configuring Host Storage

- Volumes, or LUNs, need to be configured that match the VDBENCH scripts, corresponding to the “SD” storage definitions in the VDBENCH script.
- For these tests, we use raw volumes which means that there is no filesystem on the volumes
- Each storage system has different ways to create LUNs and volumes, set RAID levels, etc.
- We have found that more LUNs, up to a point, are better with the SNIA Emerald testing rather than creating one large LUN.

Host View #1



The screenshot shows the Server Manager application window. The breadcrumb navigation indicates the current view is 'Volumes > Disks'. The left-hand navigation pane shows 'Servers', 'Volumes', 'Disks' (selected), and 'Storage Pools'. The main content area is divided into three sections: 'DISKS', 'VOLUMES', and 'STORAGE POOL'.

DISKS
All disks | 5 total

Number	Virtual Disk	Status	Capacity	Unallocated	Partition	Read Only	Clustered	Subsystem	Bus
dmtk-srvr-p (5)									
0		Online	238 GB	0.00 B	MBR			SATA	
1		Online	1.86 TB	1.86 TB	Unknown			iSCSI	
2		Online	1.86 TB	1.86 TB	Unknown			iSCSI	
3		Online	1.86 TB	1.86 TB	Unknown			iSCSI	
4		Online	1.86 TB	1.86 TB	Unknown			iSCSI	

Last refreshed on 7/14/2014 11:31:48 AM

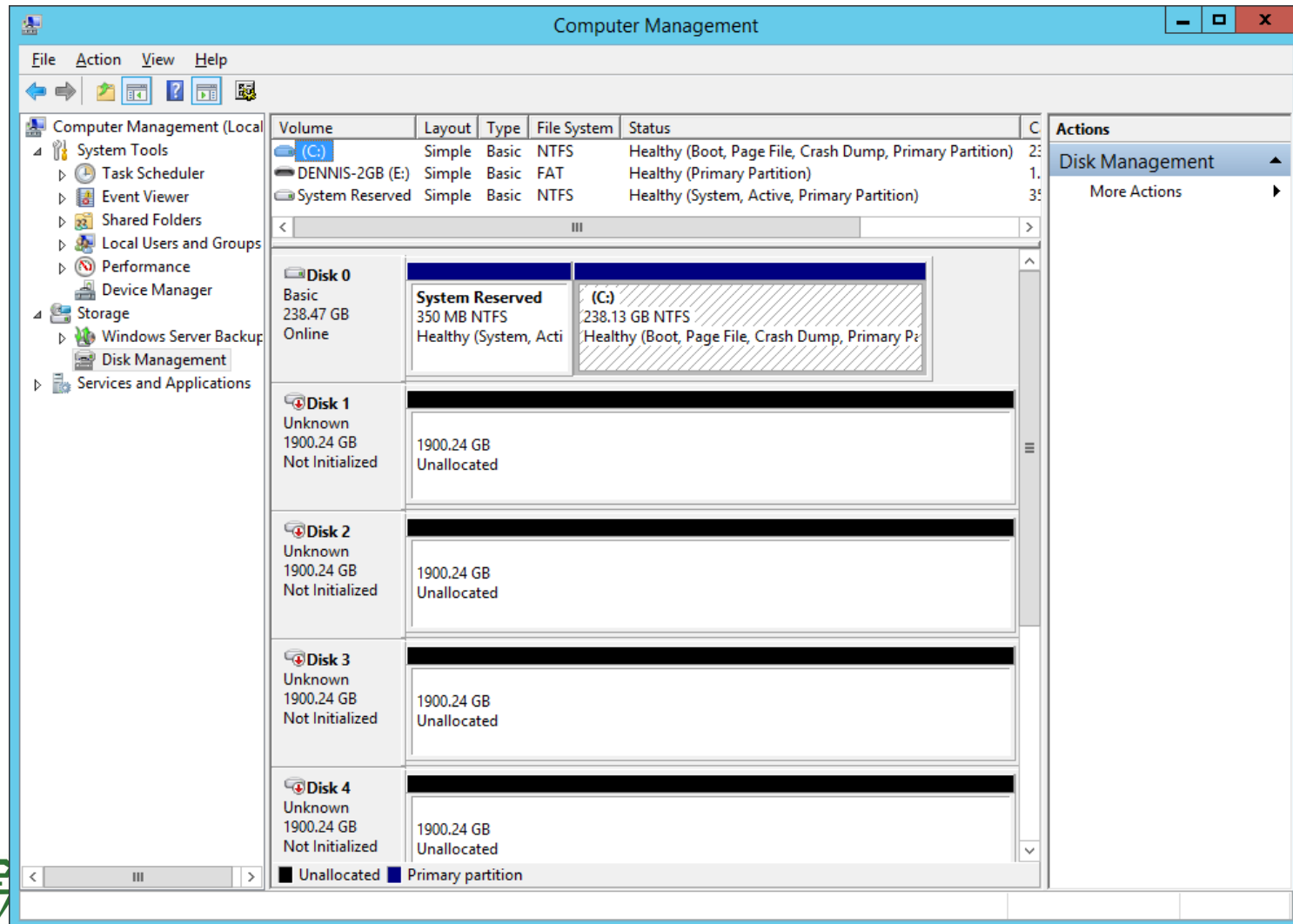
VOLUMES
Related Volumes | 2 total

Volume	Status	Provisioning	Capacity	Free Space
dmtk-srvr-p (2)				
\\?\Volume{99...}	Fixed		350 MB	91...
C:	Fixed		238 GB	187...

STORAGE POOL
Samsung SSD 840 PRO Series on dmtk-srvr-p

No related storage pool exists.

Host View #2



The screenshot shows the Windows Computer Management console, specifically the Disk Management section. The left-hand navigation pane shows the tree structure: Computer Management (Local) > Storage > Disk Management. The main area displays a table of volumes and a graphical representation of disks.

Volume	Layout	Type	File System	Status	C
(C:)	Simple	Basic	NTFS	Healthy (Boot, Page File, Crash Dump, Primary Partition)	2:
DENNIS-2GB (E:)	Simple	Basic	FAT	Healthy (Primary Partition)	1:
System Reserved	Simple	Basic	NTFS	Healthy (System, Active, Primary Partition)	3:

Disk	Capacity	State	Partitions
Disk 0	238.47 GB	Online	System Reserved (350 MB NTFS, Healthy), (C:) (238.13 GB NTFS, Healthy)
Disk 1	1900.24 GB	Unknown, Not Initialized	Unallocated
Disk 2	1900.24 GB	Unknown, Not Initialized	Unallocated
Disk 3	1900.24 GB	Unknown, Not Initialized	Unallocated
Disk 4	1900.24 GB	Unknown, Not Initialized	Unallocated

Legend: ■ Unallocated ■ Primary partition

Host iSCSI Initiator

- Two paths are configured to this storage
- 10GbE connections running iSCSI

