dashDB Local–Nodes BOM

Hardware BOM – IBM *econfig*

			dashDB Mini Config
MT	Model	Description	
8001	22C	ServerConfig- S822C	3
	Processor	EKP4 EKP4 (PS)8-core 3.32 GHz POWER8 processor	1
	Memory	EKM3 (PS) 32GB DDR4 MEMORY DIMM	8
	Bezel	EKB8 1S base system with LFF high function drive midplane (NVM	1
	Storage Adapter	Integrated Sata controller	1
		EKEA PCIe3 SAS RAID Controller w/cable for 2U server, based on	1
	Disks	EKD1 2TB 3.5" SAS HDD	2
		EKS7 1.9 TB, SFF SAS SSD; 1 DWPD Kit	7
Per S822C Server -- Required Inter-connect			
Required for Mfg Genesis	Network Adapter	EKA2 (PS) INTEL 82599ES 2-PORT SFP+ 10G GEN2 x8 STANDA	1
	Power	EKLJ (PS #6665) PWR CBL DRWR TO IBM PDU, 2.8m (9.2ft), 250V/10A, IEC320/C13, IEC320/C20	2
	Cables	CAT5E SWITCH CABLE, BLUE (3M)	1
		CAT5E SWITCH CABLE, GREEN (3M)	1
		EKC1 3M- Active Twinax cable	2
	Misc	Country specific FCs (keyboards, language groups) are selectable	1
		Shipping and Handling	1

Additional eConfig SW License and Supports (PER NODE)

5639-U16	Ubuntu Server 16 for IBM Power	(Optional)	1
	0001 Per Server Ubuntu Advantage L3 Support		1
5641-GPF	IBM Spectrum Scale V4	(if GPFS FPO Filesystem is used)	1
	0970 Standard Server per Socket w/ 1-Year SWMA		1
5641-GS1	1-Year Subscription and Support for 5641-GPF		1
	0979 Standard Server per Socket		1
5771-DKR	IBM Support Line for Docker on Power Systems	(Optional)	1
	2162 1 Yr L1-L3 9x5 Support for Docker OSS per		1
5771-LNX	1 Yr IBM Support for Linux	(Optional)	1
	1128 1 yr Support per Server		1

dashDB Local – IBM Passport Advantage

https://www.ibm.com/us-en/marketplace/ibm-dashdb-local/purchase

Start Free Tial License or Contact IBM via link above.

Additional Requirements

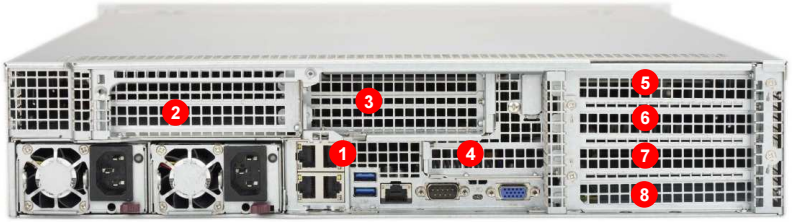
Network :
1 /(2) x IBM 10G G8264 / Customer provide (3 x 10G Port/ Switch)
1 x IBM 1G G8052 / Customer provide (6 x 1G port / Switch)

Space Requirements: 6U
Rack Requirements:
IBM SlimRack 7965-94Y / Customer provide equivalent.

Server Mode Layout

IBM MTM: 8001-22C
Single Socket CPU config

OS boot drives



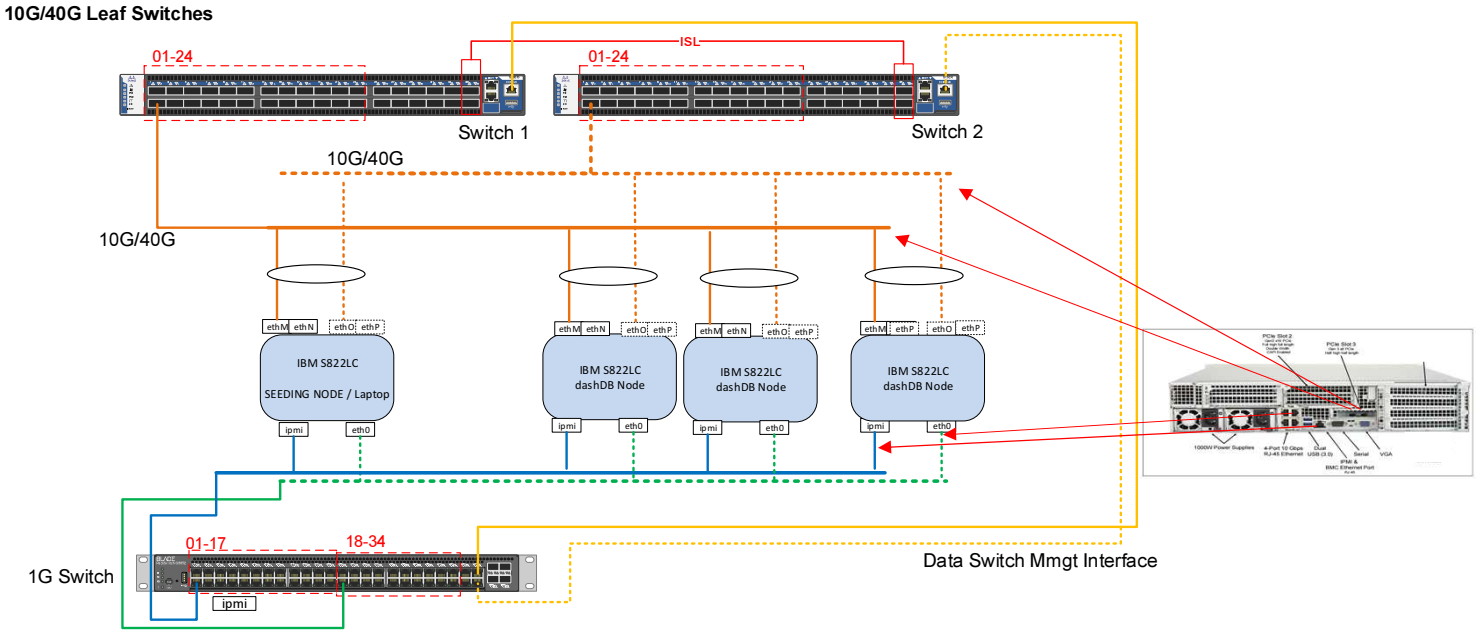
Option 9

Mix up to 12 Disk Drives (SAS or SATA)

SAS RAID Ctrl.	1
SATA DOMs	0-2

	Mechanical	Electrical
1	4 Ports 1/10 BaseT Ethernet card (LOM)	x8 (CPU1)
2	N/A	
3	Un-used	x16 (CPU1) CAPI
4	Dual-10G Ethernet Adapter	x8 (CPU1)
5	Double Width Full Height (4.2”), 10.5” Length	x16 (CPU2) CAPI
6	N/A	
7	Full Height (4.2”), 10.5” Length	x8 (CPU2) CAPI
8	Full Height (4.2”), 10.5” Length	x8 (CPU2) CAPI

Detail Network Diagram



Network Rule

- 2 x 10/40G High-speed Network Connections (Data+Mgmt) / Server Node
- 1 x 1G IPMI / Server Node
- This network design support 1-24 Nodes (1-2 Racks), additional Node will repeat the same network design but will requires additional Spine Switches
- Network switches will be install in Rack #1

Detail Network Cable P2P Label

		10GbE	10GbE
		10G_TOR_1	10G_TOR_2
Server #	Name <opt>	P2P Data network Cable Label	P2P Data network Cable Label
1	hnode-1	1A/hnode-1/SVR1/slot 3/T1 <> 10G_TOR_1/Port1	1A/hnode-1/SVR1/slot 3/T2 <> H_TOR_2/Port1
2	dnode-1	1A/dnode-1/SVR2/slot 3/T1 <> 10G_TOR_1/Port2	1A/dnode-1/SVR2/slot 3/T2 <> H_TOR_2/Port2
3	dnode-2	1A/dnode-2/SVR3/slot 3/T1 <> 10G_TOR_1/Port3	1A/dnode-2/SVR3/slot 3/T2 <> H_TOR_2/Port3

		1GbE	1G_IPMI
		1G_TOR_1	1G_TOR_1
Server #	Name <opt>	P2P Mgmt RJ4-5 Cable Label	P2P IPMI RJ-45 Cable Label
1	hnode-1	1A/hnode-1/SVR1/LOM/T1 <> 1G_TOR_1/Port1	1A/hnode-1/SVR1/LOM/impi <> 1G_TOR_1/Port19
2	dnode-1	1A/dnode-1/SVR2/LOM/T1 <> 1G_TOR_1/Port2	1A/dnode-1/SVR2/LOM/impi <> 1G_TOR_1/Port20
3	dnode-2	1A/dnode-2/SVR3/LOM/T1 <> 1G_TOR_1/Port3	1A/dnode-2/SVR3/LOM/impi <> 1G_TOR_1/Port21