



Data Center Test Bed

Discussion Slides November 7th, 2017

Issue



- New features in storage devices which are targeted to meet Hyperscaler requirements need new code
 - Both in the drive as well as the host
- The specification of these features may be immature and subject to different interpretations
 - Certification tests take time to develop and approve
- One on one testing between Drive vendor and Hyperscaler will not discover interoperability problems between drive vendors





- SNIA Technology Center in Colorado Springs could be a location for a possible test bed for new standards features of interest to Hyperscalers
- Examples might include NVMe (IOD, KV), NVMe-oF (TCP), Persistent Memory over Fabrics.
- The SNIA facility is used for other plugfests but is under utilized at this time.

Example Benefits



Early testing on new features would help accelerate adoption.

- Hyperscalers can debug prototype code with early implementations
- Drive/Fabric vendors can debug firmware with real world Datacenter applications
- SNIA workload groups may be able to capture loads for performance characterization
- Testing/Certification organizations (UNH-IOL) can debug early test suites

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SNIA Technology Center



- Private entrance
- Equipment to support storage networking training
- 1,500 sq. ft. of Interoperability test labs
- Classrooms and meeting space
- Industrial-grade tiered workbenches
- Integrated network and fibre infrastructure
- Teleconferencing and other meeting support (remote demonstrations of storage technologies)
- Secure remote access to testing labs and other hosted equipment
- Pre-stage and remote deployment of storage networking equipment for demonstrations and hands-on training opportunities



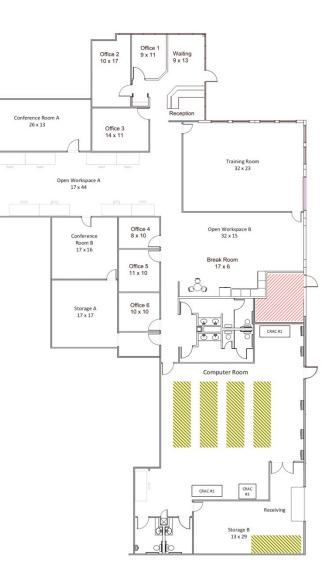
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Fees, Building Layout

Service Name	Description	Pricing
1U rackspace	1U rackspace, 3 Amps power, one 10/100 Mb drop,	\$150/month
	network drop 100GB of transfer, 1 external IP address	\$100 setup*
¼ Cabinet	10U rackspace, 5 Amps power, one 10/100 Mb drop,	\$300/month
(2 to 10U)	125GB of transfer, up to 2 external IP addresses	\$100 setup*
½ Cabinet	20U rackspace, 10 Amps power, one 10/100 Mb drop,	\$450/month
(11 to 20U)	150GB of transfer, up to 4 external IP addresses	\$200 setup*
Full Cabinet	42U rackspace, 20 Amps power, one 10/100 Mb drop,	\$700/month
(21 to 42U)	175GB of transfer, up to 8 external IP addresses	\$200 setup*
Additional Power	Additional 20 Amps circuit. Setup fee will apply for 3 or	\$200/month
	more circuits per cabinet.	
Additional Drop	Additional 10/100 Mb drop, network drop to your cabinet.	\$50/month
	No additional bandwidth included.	\$50 setup*
Additional 20GB of	Contracted price	\$40/month
Traffic		
Additional 50GB of	Contracted Price	\$80/month
Traffic		
VPN access	Single VPN access account to customer equipment.	\$50/month
		\$50 setup*
Additional external	Up to 4 additional external IP addresses	\$15 /month
IP address		\$50 setup*

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- Open Mailing List:
 - Send email to the list (must be subscribed): <u>datacenter@snia.org</u>
 - Subscribe (empty email to): <u>datacenter-subscribe@snia.org</u>