Upcoming Sessions:
Plans and Suggested Preparation

Wayne Adams
SNIA GSI Chair

SNIA Emerald™ Training

SNIA Emerald™ Power Efficiency Measurement Specification

Version 3.0

February-March 2018

March 6th – 8th
***could be March 13th-15th, notice by Feb 28th

Mar 6, Tuesday, 10-2	PUT Config Overview and setup for File
10 mins	Overview of next 3 days of training
220 mins --- 55 mins Youtube	SFS 2014 Overview
45 mins Youtube - inc above	SFS 2014 SNIA Emerald
inc above	1. Setting up AC power.
15 mins - 2014 inc above	2. Setting up the power meter, and measurement system.
inc above	3. Setting up Sflow on the switch, and sflow collector.
inc above	4. Setting up the SFS2014 benchmark.
inc above	a. Software configuration.
inc above	b. Hardware configuration
inc above	c. Install and setup ssh automatic logins.
30 mins - 2014 inc above	Capacity Optimization testing and types (applies to both file and block)
10 mins	Q&A,
Mar 7th, Wednesday, 10-2	**Part 1 Run the SNIA Emerald Tests and Generate Data; Analyze Data**
10 mins	Overview of today agenda
220 mins	Continue - 4. Setting up the SFS2014 benchmark.
inc above	d. Finding the peak throughput, for each workload type.
inc above	e. Finding the optimal throughput versus power for each workload type
inc above	5. When things go wrong.
est 15 mins 2014 inc above	Run COM Test
10 mins	Q&A
Mar 8th, Thursday, 10-2	**Part 2 Run the SNIA Emerald Tests and Generate Data; Analyze Data**
10 mins	Overview of today agenda
210 mins	Continue - 4. Setting up the SFS2014 benchmark.
inc above	f. Merging the power meter results with Sflow results.
	g. data reduction, validation, and metric calculation
inc above	Mistakes to avoid, lessons learned - tests and - data analysis
30 mins 2014 inc above	SNIA Test Data Report elements
10 mins	Q&A
10 mins	Support, Help, Resources

March 6th

Mar 6, Tuesday, 10-2	PUT Config Overview and setup for File					
10 mins	Overview of next 3 days of training					
220 mins --- 55 mins Youtube	SFS 2014 Overview					
45 mins Youtube - inc above	SFS 2014 SNIA Emerald					
inc above	1. Setting up AC power.					
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inc above	a. Software configuration.					
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30 mins - 2014 inc above	Capacity Optimization testing and types (applies to both file and block)					
10 mins	Q&A,					

Block IO testing with Vdbench not covered
Refer to V2.0.2/V2.1 Training Materials
SNIA Emerald V3.0 Block IO same V2.1
https://www.snia.org/emerald/training/July2014
https://www.snia.org/emerald/training/July2015

Suggested Activities
February 23 to March 5th

◆ Review Block IO training materials from 2014/2105, raise questions via email and we answer

◆ Watch these two Videos ahead of March 6th and join 12N PT on March 6 Instead of at 10AM
https://www.spec.org/sfs2014/presentations/index.html

> Application-Level Benchmarking with SPEC SFS 2014
> Using SPEC SFS with the SNIA Emerald Program for EPA Energy Star Data Center Storage Program

◆ Watch for an email confirming either of these dates

- March 6-8
- Or
- March 7-13

Presentations on SPEC SFS® 2014

Collected here are various presentations and supporting materials (if available) about the S

Application-Level Benchmarking with SPEC SFS 2014

Presented by SFS committee members Nick Principe and Vernon Miller at SNIA SDC 2015

SPEC SFS 2014: An Under-the-Hood Review

Presented at the SNIA Storage Developer Conference in September 2014 by SFS committe

Using SPEC SFS with the SNIA Emerald Program for EPA Energy Star Data Cent

Presentation by Vernon Miller (Senior Software Engineer, IBM) and Nick Principe (Principal

Questions?

SNIA Emerald™

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