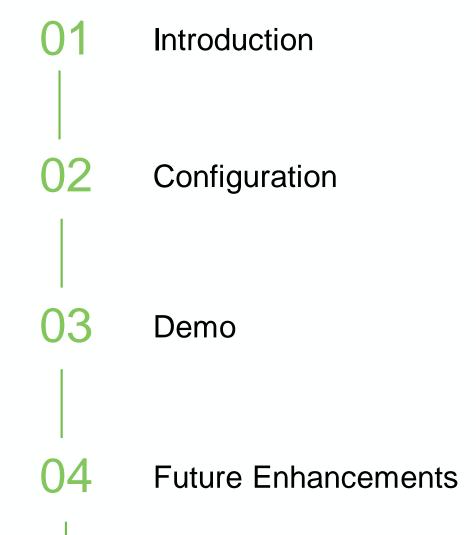


### Perf Tools - AutoPerf

Tushar Jain, CORTX Performance Jan 27, 2021 AGENDA

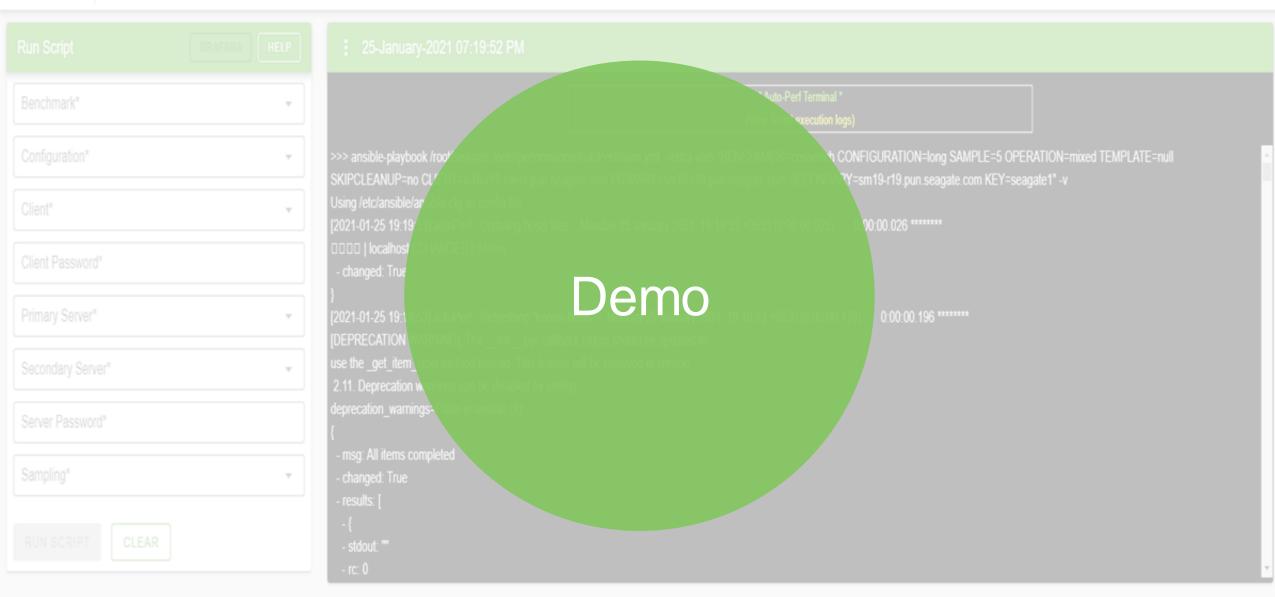


#### What is AutoPerf?

- AutoPerf is a Performance Testing and Monitoring Tool
- Can do
  - Setup Workload Infrastructure and Generate Workload
  - Collect Metric Stats / Artifacts
  - Provide Live Monitoring and Visualization
- Can't do
  - Setup CORTX Infrastructure
  - Provide Summary
  - **Export Run Data**

#### How AutoPerf Work?

- Workloads
  - Industry Benchmarks S3bench, HSBench, COSBench, Fio
  - Custom Workloads failover & failback (Time taken to failover and failback)
- Easy to use interface
  - Automated environment setup, No user intervention required
  - Customized workload configuration for minimal user input
  - Abstracted benchmark specific configuration details
- Observability Live running dashboards
  - System Stats CPU/Memory/Network/Storage etc.
  - Workload Stats Throughput, Latency etc
  - Live running console for execution status



# **Configuration Parameters**

Туре	Clients	Number of Samples	Object Size
Short	32	2048, 4096	1Mb, 4Mb, 8Mb
Long	64	2048, 4096	32Mb, 64Mb
Small	128, 256	4096	4Mb, 16Mb, 32Mb
Large	128, 256	4096	64Mb, 128Mb, 256Mb

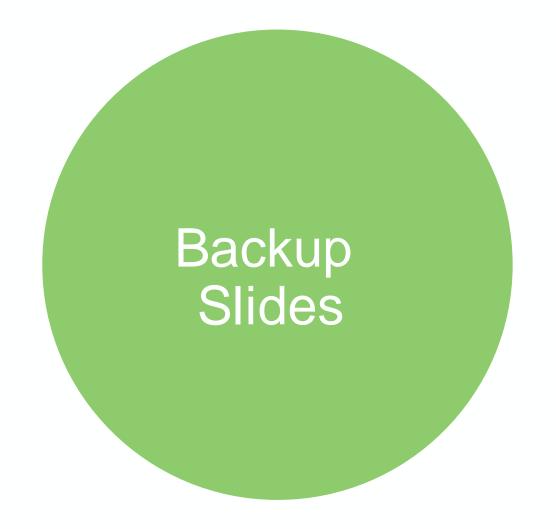
#### **Future Enhancements**

- LDR R2 Support
- New Benchmarks / Workloads Veeam & BareOS
- More Control Stop/Terminate Job Gracefully
- Data Export Option Downloadable/Accessible Run Results and Artifacts
- User Personalization Display User's Past Runs, Logs and Configuration History
- More Customization—Detailed Configuration Interface for Advanced User
- Grafana Dashboard Enhancements More System and Workload Stats

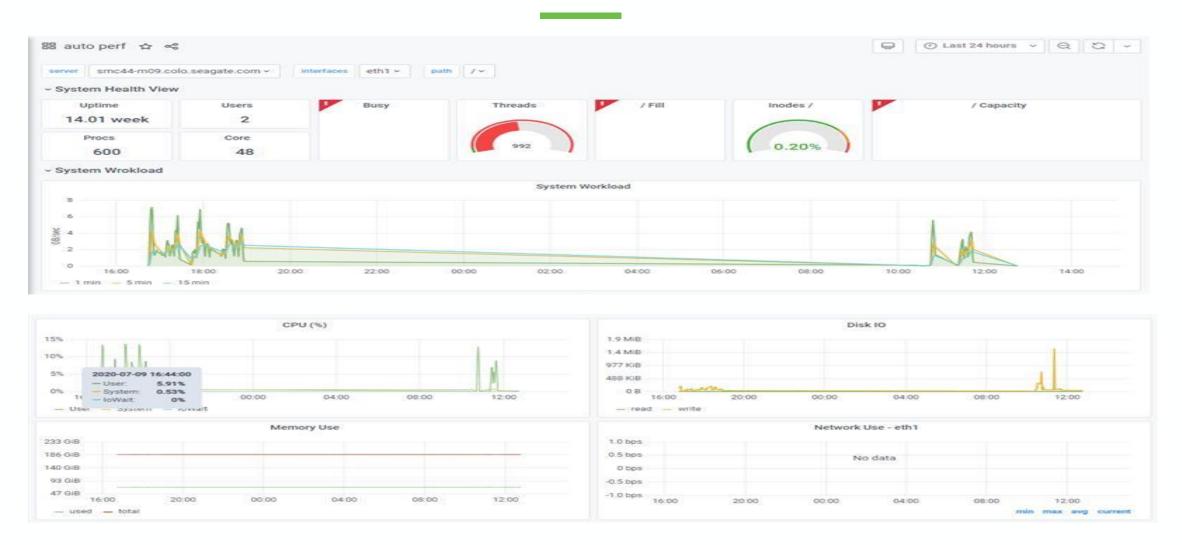
#### Talk to us!

- **Autoperf Location** 
  - Hosted at: Auto Perf (seagate.com)
  - Github Repository: Seagate/Seagate-tools
- Have query/suggestion/idea for AutoPerf?
  - Email: cortx.perf@seagate.com
  - Jira : project = EOS AND component = Cortx-Perf

Q&A



# Sample Grafana Screenshots



### Sample Grafana Screenshots

