

Cloud Object Storage Plugfest

Planning call #1

June 5, 2024

10:00 am PT / 1:00 pm ET



Today's Presenters



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SNIA Is



- An industry organization that focuses on technologies related to handling and optimizing data



- A collaboration of experts on data that
 - Develops global standards
 - Delivers vendor-neutral education



- SNIA Cloud Storage Technologies Initiative (CSTI)
 - Committed to the adoption, growth and standardization of intelligent data storage usage in cloud infrastructures.

Agenda

- SNIA Overview
 - Survey overview
- Plugfest Collaboration and Network Goals
 - Discuss your goals
- Testing Process
- Logistics
- NDA, Fee, and Registration
- Next Steps
- Q&A



Interoperability Challenges

- Incompatibilities are costing our customers
- We have we hit a plateau in terms of compatibility
- There are no open forums to assist with multi-vendor testing
- Most object storage clients test against cloud service offerings
- Server behavior often needs to be inferred from cloud service offerings
- There are no formal specifications
- Most object storage servers only implement a subset of defined functionality

Interoperability Challenges

- What does success look like?
 - Identification and documentation of common implementation pitfalls
 - Compatibility implementation guidance for client implementations
 - Guidelines for a base subset of functionality (80%/20% rule)
 - Recommendations for testing (server and client)
 - Clients that “just work” with servers
 - Reduction in integration costs and risks for customers
 - Happy Customers

Interoperability Challenges

- How do we get there?

- Open communication in a safe (under NDA) environment
- Collaboration to identify issues
- Sharing of testing tools and techniques

- Some questions for participants:

- What does success look like for you?
- What are your goals as a contributor?
- What are your existing pain points?
- How significant do you see these issues?
- How fast are these getting resolved?
- How do you envision this forum helping?
- What time to market improvements do you think we can help facilitate?
- How is the existing community network enabling you to interact with the right people?

Cloud Object Storage Survey Results (as of 6/4/24)

Interested Companies

- Centre for Development of Advanced Computing
- Dell
- Flexify
- Google
- Hewlett Packard Enterprise
- IBM
- Microsoft
- NetApp
- Nutanix
- Versity Software
- Zadara

Implemented Protocols

- Amazon S3 Client
- Amazon S3 Server
- Microsoft Azure Blob Storage Client
- Microsoft Azure Blob Storage Server
- Google Cloud Storage Client
- Google Cloud Storage Server
- Other Interest
 - Backblaze B2
 - Ceph Object Storage
 - Dropbox
 - OpenStack Swift

<https://www.snia.org/plugfestsurvey>

SNIA Cloud Object Storage Plugfest Goals

- Ensure smooth interaction between multiple cloud object storage solutions based on the same protocol (for example, S3-compatible or Azure-compatible) from different providers.
- Collectively address the challenges associated with object storage compatibility'
- Reduce compatibility issues, thus improving customer experience and increasing the adoption rate of object storage solutions.



Testing Procedures

- The participants of the Plugfest work together to define the testing process and matrix, assuring that objectives are accomplished.
 - Planning calls held prior to the event to work out the details
- Based on supported protocols each participant will test with other compatible participants
- Test Tools
 - Participant supplied
 - Open source (e.g. Ceph s3-tests, AWS sdk, etc.)

Logistics

- Plugfest is open to all, SNIA membership is not required
- Co-located at SNIA Developer Conference (SDC) 2024
 - September 16-18, 2024, Santa Clara, CA
- SNIA will provide and support the network and infrastructure for the Plugfest, creating a collaborative framework for testing.
- **Schedule**
 - **Set Up:** Sunday 9/15/2024, 1 pm – 5 pm PDT
 - **Testing:** Monday 9/16/2024, 9 am to Wednesday 9/18/2024, 5 pm PDT
 - **Tear-down starts:** Wednesday 9/18/2024, 5 pm PDT (complete by 8 pm)

NDA, Fee, and Registration

- All Plugfest participants are under an NDA
 - Any information obtained at the Plugfest about the performance, compatibility or test results relating to the products of any participant is confidential.
 - <https://www.snia.org/plugfestnda>
- The fee to participate is \$895 per engineer which includes full access to the SNIA Developer Conference sessions and meals
- Registration
 - Authorized representative from company completes the [Plugfest Company Registration](#) form, agreeing to the NDA on behalf of the company
 - Each participating engineer:
 - Register for SDC at the discount rate of \$895
 - Complete the Plugfest Participant Registration form
 - Attend the Plugfest planning calls

Next Steps

1. Fill out Plugfest survey at <https://www.snia.org/plugfestsurvey>
2. Stay informed, join the Plugfest email reflector (receive copy of this presentation)
 - Send email to subscribe-cloudplugfest@snia.org
3. When ready visit the Plugfest registration page at <https://www.snia.org/cloudplugfest>
 - *Please register as soon as possible so that we can finalize logistics*
4. Attend upcoming Plugfest planning calls
 - [July 10th at 10 am PDT](#)
 - [August 14th at 10 am PDT](#)

Need additional details, email us at askcloudplugfest@snia.org

Important Links

- Cloud Object Storage Plugfest Survey
 - <https://www.snia.org/plugfestsurvey>
- Cloud Object Storage Plugfest event details
 - <https://www.snia.org/cloudplugfest>
- Cloud Object Storage Plugfest Mailing List
 - cloudplugfest@snia.org
- Cloud Object Storage Plugfest Confidentiality Agreement
 - <https://www.snia.org/plugfestnda>
- Cloud Object Storage Plugfest Webinar
 - <https://youtu.be/o6RIPL-S8sA>
- SNIA Developer Conference
 - <https://www.sniadeveloper.org>
- Contact us
 - askcloudplugfest@snia.org

QUESTIONS?