Testing All Flash Arrays with High-Speed Interconnects

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Testing an All Flash Array is difficult.

- Challenges

  - Test Approach

  - Test Coverage

  - High Speed Interconnects

  - Cache

Test Approach

- How to test?
  - Flash Drives?
  - Flash Array Features?
  - Data Pools
  - System Performance

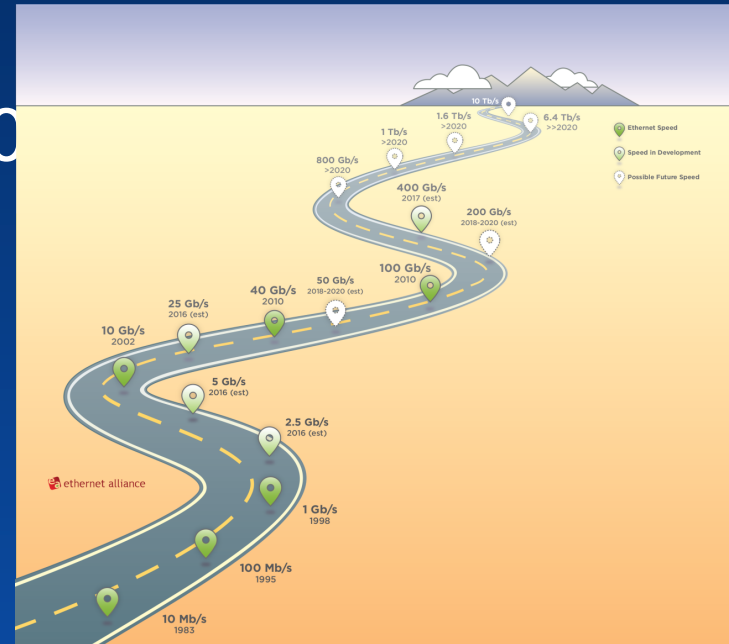- When to test?

Test Coverage

- **What to test?**
  - Flash Drives?
  - Flash Array Features?
  - Data Pools
  - System Performance

- **What not to test?**
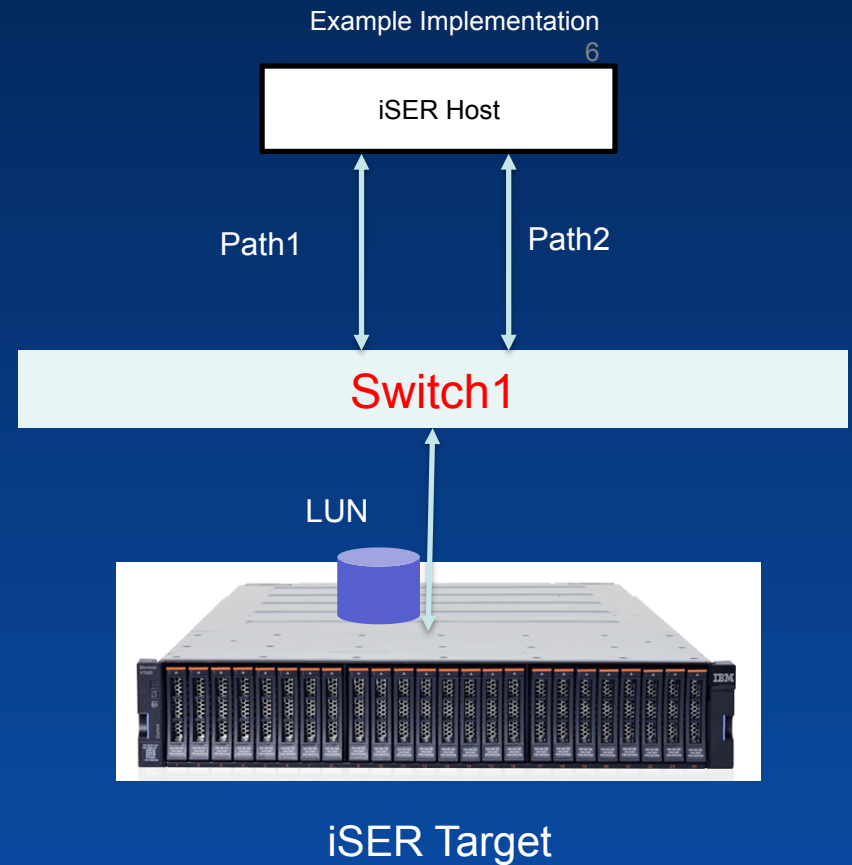
High Speed Interconnects

- Fibre Channel (32/64 Gbps)
- Ethernet (25/50/100/200/400 Gbps)
  - RDMA
  - **iSER**

- How it affects testing of All Flash Arrays?

Cache

- Role of System Cache in All Flash Array Testing
- Real life use cases
- How to minimize the risk?
- Other simpler ways to deal this while testing.

Example Implementation

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iSER Host

Path1   Path2

Switch1

LUN

iSER Target

Thank You!