

## SAN CCIE Storage SAN CCIE v2.0 – Lab Blueprint

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### **Implement FCP and FICON fibre channel features**

- Implement port channel, ISL, and trunking
- Implement VSAN
- Implement basic and enhanced zoning
- Implement IVR, including IVR 2, IVR service groups, IVR static FCIDs
- Implement traffic engineering
- Implement port tracking
- Implement Dynamic Port VSAN Membership
- Implement Device Aliases
- Implement CFS capable applications
- Implement FC domain parameters
- Implement FICON
- Implement proper oversubscription
- Implement standards-based and Cisco-specific FC-0 through FC-2 features
- Implement SAN extension over optical
- Implement fibre channel security features
- Validate proper configuration of FCP and FICON fibre channel features

### **Implement switch interoperability**

- Implement and validate interoperability with third party switches

### **Implement IP Storage-based solutions**

- Implement IP features, including high-availability
- Implement iSCSI, including advanced features
- Implement SAN Extension Tuner
- Implement Network Simulator
- Implement ISLB
- Implement ISNS
- Implement FCIP and security features
- Implement iSCSI security features
- Validate proper configuration of IP Storage-based solutions

### **Implement SAN management**

- Implement Performance Manager
- Implement NTOP
- Implement Fabric Manager and Device Manager
- Implement CLI variables, aliases, scripting, and Command Scheduler
- Implement Call Home, SNMP, and RMON features
- Implement IPFC
- Configure licensing for compliance
- Implement SAN Management security features
- Implement AAA services
- Verify performance statistics
- Validate proper configuration of SAN Management

**Implement Cisco intelligent storage services**

Implement Fibre channel write acceleration

Implement SANTap

Implement SME

Implement DMM

Implement Storage virtualization

Implement SDV

Validate proper configuration of Cisco intelligent storage services

**Troubleshoot SAN infrastructure**

Troubleshoot problems and failures using Command Line Diagnostic tools, show and debug commands, and GUI

Capture and analyze fibre channel flows using FCAnalyzer, SPAN, and RSPAN

Troubleshoot using RMON, SNMP, and Call Home for detecting problems

Configure and interpret the various system logs

Troubleshoot problems with switch recovery, upgrades, and rollbacks