VAST As-Built Report

Customer Deployment Documentation

Cluster: selab-var-204
PSNT: selab-var-204
Release: release-5.3.1-sp3-1898015
Management IP: 10.143.11.204

CBox Hardware: supermicro_gen5_cbox, two dual-port NICs
CBox Quantity: 3
DBox Hardware: BlueField, SoC PCIe Bridge
DBox Quantity: 2

Table of Contents

Executive Summary

Cluster Overview

Description	Value
ID	1
Name	selab-var-204
Management VIP	10.143.11.204
URL	https://10.143.11.204/api/v7/clusters/1
Build	release-5.3.1-sp3-1898015
PSNT	selab-var-204
GUID	127db70c-0197-5f4f-8af8-44bead61cda2
Uptime	17 days, 18:43:23.696181
Online Since	2025-09-17T22:34:29.502591Z
Deployed	2025-08-07T18:57:44.259621Z

Hardware Overview

Description	Value
Total Nodes	5
CNodes	3
DNodes	2
CBoxes	0
DBoxes	0
Switches	0

Cluster Information

Cluster Name: selab-var-204

Function	Status
State	ONLINE
SSD RAID State	HEALTHY
NVRAM RAID State	HEALTHY
Memory RAID State	HEALTHY
Leader State	UP
Leader CNode	cnode-3-11
Management CNode	cnode-3-12
Management Inner VIP	172.16.4.204
Management Inner VIP CNode	cnode-3-11
Enabled	Yes
Similarity Enabled	Yes
Deduplication Active	Unknown
Write-Back RAID Enabled	Yes
Write-Back RAID Layout	DATA_6_PARITY_2
DBox HA Support	No
Rack Level Resiliency	No
Metrics Disabled	No

Hardware Summary

Storage Capacity

Metric	Value
Usable Capacity	223 TB
Free Usable Capacity	39 TB
Data Reduction Ratio (DRR)	1.6:1
Physical Space	282 TB
Physical Space In Use	233 TB
Free Physical Space	49 TB
Physical Space In Use %	83%
Logical Space	348 TB
Logical Space In Use	287 TB
Free Logical Space	60 TB
Logical Space In Use %	82%

CBox Inventory (Compute)

ID	Model	Serial Number	Status	Position
6	supermicro_gen5_cbox two dual-port NICs	S929986X5306758	ACTIVE	N/A
2	supermicro_gen5_cbox two dual-port NICs	S929986X5306720	ACTIVE	N/A
3	supermicro_gen5_cbox two dual-port NICs	S929986X5306437	ACTIVE	N/A

DBox Inventory (Data)

ID	Model	Serial Number	Status	Position
1	dbox-515-25042300200055	C15-25042300200017	ACTIVE	N/A
2	dbox-515-25042300200055	C15-25042300200021	ACTIVE	N/A

Physical Rack Layout

Visual representation of hardware positioning in the rack with U-number assignments.

[Physical Rack Layout Diagram Placeholder]

Network Configuration

Setting	Value
Management VIPs	10.143.11.204
External Gateways	10.143.254.254
DNS Servers	10.140.3.248
NTP Servers	10.140.0.17
External Netmask	255.255.0.0
Auto Ports Ext Interface	outband
Ethernet MTU	9000
InfiniBand MTU	65520
IPMI Gateway	10.143.254.254
IPMI Netmask	255.255.0.0
B2B IPMI	False

CBox Network Configuration

ID	Hostname	Mgmt IP	IPMI IP	VAST OS	VMS Host	Net Type
8	se-az-arrow-cb4-cn-1	10.143.11.81	10.143.11.82	12.14.19-1809895	False	eth
2	se-az-arrow-cb4-cn-2	10.143.11.83	10.143.11.84	12.14.15-1791040	False	eth
1	se-az-arrow-cb4-cn-3	10.143.11.85	10.143.11.86	12.12.15-1440723	True	eth

DBox Network Configuration

ID	Hostname	Mgmt IP	IPMI IP	VAST OS	Position	Ceres	Ceres v2	Net Typ
4	se-az-arrow-db4-dn-1	10.143.11.41	10.143.11.42	12.14.15-1791040	right	True	True	eth
5	se-az-arrow-db4-dn-2	10.143.11.43	10.143.11.44	12.14.15-1791040	left	True	True	eth

Network Services

VIP Pools: 35 pools configured

Logical Configuration

Tenants: 20 tenants configured

Views: 276 views configured

View Policies: 115 policies configured

Security & Authentication

Active Directory:

• Enabled: True

• Domain: Unknown

Encryption Configuration:

• Encryption Enabled: False

• Encryption Type: INTERNAL

• S3 AES Ciphers Only: Not Configured

• EKM Servers: Not Configured

• EKM Address: Not Configured

• EKM Port: 5696

• EKM Auth Domain: Not Configured

• Secondary EKM Address: Not Configured

• Secondary EKM Port: 5696

Data Protection

Protection Policies: 19 policies configured

Enhanced Features

Rack Positioning:

• Supported: Yes

• Automated U-number generation for hardware positioning

• Physical rack layout visualization available

PSNT Tracking:

• Supported: Yes

• Cluster Product Serial Number available for support tracking

• PSNT: selab-var-204

Appendix

Report Generation Information:

• Generated on: 2025-10-05T10:18:08.007468

• Data completeness: 84.1%

• API version: v7

• Cluster version: 5.3.1.1.10603406698381149702

Physical Rack Layout:

• Occupied positions: 4

• Position range: U18 - U25

• Total CNodes: 3

• Total DNodes: 2