

VAST As-Built Report

Customer Deployment Documentation

Cluster: selab-var-204

Version: 5.3.1.1.10603406698381149702

PSNT: selab-var-204

Generated on: October 04, 2025 at 08:23 AM



VAST Professional Services | Automated As-Built Documentation

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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 | 16 days, 16:49:12.004163 |
| 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 | 38 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) Inventory

| 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) Inventory

| 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

DNS Configuration:

- Enabled: True

VIP Pools: 35 pools configured

Cluster Network Configuration:

- Management VIPs: Not Configured
- External Gateways: Not Configured
- DNS Server: Not Configured
- NTP Server: Not Configured
- External Netmask: Not Configured
- Auto Ports External Interface: Not Configured
- B2B IPMI: Not Configured
- IPMI Gateway: Not Configured
- IPMI Netmask: Not Configured
- Ethernet MTU: Not Configured
- InfiniBand MTU: Not Configured

Cluster Network Configuration

- Management VIPs: Not Configured
- External Gateways: Not Configured
- DNS Servers: Not Configured
- NTP Servers: Not Configured
- External Netmask: Not Configured
- Auto Ports External Interface: Not Configured
- B2B IPMI: False
- Ethernet MTU: Not Configured
- InfiniBand MTU: Not Configured
- IPMI Gateway: Not Configured
- IPMI Netmask: Not Configured

CNodes Network Configuration

Total CNodes: 3

| ID | Hostname | Mgmt IP | IPMI IP | Box Vendor | VAST OS | VMS Host | IPMI Support | Single NIC | Net Type |
|----|----------------------|--------------|--------------|-----------------------------------|------------------|----------|--------------|------------|----------|
| 8 | se-az-arrow-cb4-cn-1 | 10.143.11.81 | 10.143.11.82 | supermicro_gen5_cbox, two dual... | 12.14.19-1809895 | No | No | No | eth |
| 2 | se-az-arrow-cb4-cn-2 | 10.143.11.83 | 10.143.11.84 | supermicro_gen5_cbox, two dual... | 12.14.15-1791040 | No | No | No | eth |
| 1 | se-az-arrow-cb4-cn-3 | 10.143.11.85 | 10.143.11.86 | supermicro_gen5_cbox, two dual... | 12.12.15-1440723 | Yes | No | No | eth |

DNodes Network Configuration

Total DNodes: 2

| ID | Hostname | Mgmt IP | IPMI IP | Box Vendor | VAST OS | Position | Ceres | Ceres v2 | Net Type |
|----|----------------------|--------------|--------------|----------------------------|------------------|----------|-------|----------|----------|
| 4 | se-az-arrow-db4-dn-1 | 10.143.11.41 | 10.143.11.42 | BlueField, SoC PCIe Bridge | 12.14.15-1791040 | right | Yes | Yes | eth |
| 5 | se-az-arrow-db4-dn-2 | 10.143.11.43 | 10.143.11.44 | BlueField, SoC PCIe Bridge | 12.14.15-1791040 | left | Yes | Yes | eth |

Logical Configuration

Tenants: 20 tenants configured

Views: 274 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: 20 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: 2025-10-04T08:23:55.912552
- Data completeness: 4311.2%
- 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