

# 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 06:55 AM



VAST Professional Services | Automated As-Built Documentation

Generated: 2025-10-04 06:55:18 | Data Completeness: 4311.2%

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## Executive Summary

### Cluster Overview:

- 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, 15:20:35.654232
- Online Since: 2025-09-17T22:34:29.502591Z
- Deployed: 2025-08-07T18:57:44.259621Z

### Hardware Summary:

- Total Nodes: 5
- CNodes: 3
- DNodes: 2
- Rack Positions: Available



## 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 Inventory

**Summary:** 5 total nodes  
**Rack Positioning:** Available

### Storage Capacity

| Metric                     | Value      |
|----------------------------|------------|
| Usable Capacity            | 222.868 TB |
| Free Usable Capacity       | 38.104 TB  |
| Data Reduction Ratio (DRR) | 1.6:1      |
| Physical Space             | 282.095 TB |
| Physical Space In Use      | 233.547 TB |
| Free Physical Space        | 48.548 TB  |
| Physical Space In Use %    | 82.79%     |
| Logical Space              | 347.380 TB |
| Logical Space In Use       | 286.646 TB |
| Free Logical Space         | 59.391 TB  |
| Logical Space In Use %     | 82.52%     |

### CNodes Inventory

| ID | Model                                    | Serial Number   | Status | Rack Height (U) |
|----|--|-----------------|--------|-----------------|
| 6  | supermicro_gen5_cbox, two dual-port NICs | S929986X5306758 | ACTIVE | U25             |
| 2  | supermicro_gen5_cbox, two dual-port NICs | S929986X5306720 | ACTIVE | U24             |
| 3  | supermicro_gen5_cbox, two dual-port NICs | S929986X5306437 | ACTIVE | U23             |

### DNodes Inventory

| ID | Model                    | Serial Number      | Status | Rack Height (U) |
|----|--------------------------|--------------------|--------|-----------------|
| 1  | dbbox-515-25042300200055 | C15-25042300200017 | ACTIVE | U18             |
| 2  | dbbox-515-25042300200055 | C15-25042300200021 | ACTIVE | U18             |

### 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 | TPM 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 Typ |
|----|----------------------|--------------|--------------|----------------------------|------------------|----------|-------|----------|---------|
| 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: 2025-10-04T06:55:18.861409
- 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