

# 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 07:09 AM



VAST Professional Services | Automated As-Built Documentation

Generated: 2025-10-04 07:09:27 | 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, 15:34:44.783480
- 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	38.120 TB
Data Reduction Ratio (DRR)	1.6:1
Physical Space	282.095 TB
Physical Space In Use	233.526 TB
Free Physical Space	48.569 TB
Physical Space In Use %	82.78%
Logical Space	347.557 TB
Logical Space In Use	286.646 TB
Free Logical Space	59.447 TB
Logical Space In Use %	82.47%

### CNodes Inventory

ID	Model	Serial Number	Status	Rack Height (U)
6	supermicro_gen5_cbox, two dual-port 10GbE SFP+ ports	8920986X5306758	ACTIVE	U25
2	supermicro_gen5_cbox, two dual-port 10GbE SFP+ ports	8920986X5306720	ACTIVE	U24
3	supermicro_gen5_cbox, two dual-port 10GbE SFP+ ports	8920986X5306437	ACTIVE	U23

### DNodes Inventory

ID	Model	Serial Number	Status	Rack Height (U)
1	dbox-515-25042300200055	C15-25042300200017	ACTIVE	U18
2	dbox-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	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: 2025-10-04T07:09:27.805752
- 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