

VAST

As-Built Report

Cluster Deployment Documentation

Customer: Acme Corporation

Cluster: ACME-PROD-01

PSNT: VST-2025-AC-001234

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1. Executive Summary

This document provides comprehensive as-built documentation for the VAST Data cluster deployment completed for **Acme Corporation**. The cluster has been successfully installed, configured, and validated according to VAST Data best practices and customer requirements.

Cluster Overview

Property	Value
Cluster Name	ACME-PROD-01
Cluster PSNT	VST-2025-AC-001234
VAST OS Version	5.3.0-build-123456
Cluster GUID	12345678-abcd-1234-5678-123456789abc
Deployment Date	2025-09-10
Total Usable Capacity	1.17 PB
Licensed Capacity	1.20 PB
VMS VIP (GUI Access)	192.168.1.10

Features in Use

- Protocols:** NFS v3/v4, SMB 3.x, Object (S3), Block (iSCSI)
Data Services: Snapshots, Quotas, QoS, Replication
Security: Active Directory Integration, LDAP Authentication, Encryption

2. Hardware Inventory

2.1. CBoxes (Compute)

Component	Model	Serial Number	Rack Position	CNodes	Management IP
CBox-1	VAST-CX4000	VST240901001	U25	4	192.168.1.11
CBox-2	VAST-CX4000	VST240901002	U27	4	192.168.1.12
CBox-3	VAST-CX4000	VST240901003	U29	4	192.168.1.13
CBox-4	VAST-CX4000	VST240901004	U31	4	192.168.1.14

Total CNodes: 16

CNode Cable Type: Splitter

Required Ports per Switch: 8

2.2. DBoxes (Data)

Component	Model	Serial Number	Rack Position	DNodes	Management IP
DBox-101	VAST-DX8000	VST240901100	U18	4	192.168.1.21
DBox-102	VAST-DX8000	VST240901101	U17	4	192.168.1.22
DBox-103	VAST-DX8000	VST240901102	U16	4	192.168.1.23
DBox-104	VAST-DX8000	VST240901103	U15	4	192.168.1.24

Total DNodes: 16

DNode Cable Type: Straight

Required Ports per Switch: 16

2.3. Network Switches

Component	Model	Serial Number	Rack Position	Ports	Firmware
Switch A	Mellanox SN3700	MT2113X12345	U20	32x100GbE	3.10.1000
Switch B	Mellanox SN3700	MT2113X12346	U22	32x100GbE	3.10.1000

Switch Fabric: 100GbE with 200GbE capability

Protocol: RDMA over Converged Ethernet (RoCE v2)

Redundancy: A/B switch design with full mesh connectivity

3. Network Configuration

3.1. Network Services

Service	Configuration
DNS Servers	8.8.8.8, 8.8.4.4, 1.1.1.1
NTP Servers	pool.ntp.org, time.google.com
Management Network	192.168.1.0/24
Data VLAN	100
VMS VIP	192.168.1.10

3.2. VIP Pools

Service	VIP Pool	IP Range	VLAN
NFS	nfs-pool	10.100.1.10-10.100.1.17	100
SMB	smb-pool	10.100.1.30-10.100.1.37	100
S3	s3-pool	10.100.1.50-10.100.1.57	100
Management	mgmt-pool	192.168.1.10-192.168.1.17	69

4. Data Protection

4.1. Encryption Configuration

Setting	Status
Local Encryption	Enabled
Encryption Type	AES-256
Key Management	External
External Key Management	Enabled
EKM Provider	HashiCorp Vault
Data-at-Rest Protection	Active

Snapshot Policies

Retention Policy: 30 days (hourly), 90 days (daily), 1 year (weekly)

Schedule: Hourly, daily, and weekly snapshots

Auto-deletion: Enabled

5. Support Information

5.1. Cluster Identification

Information	Value
Cluster PSNT	VST-2025-AC-001234
Cluster GUID	12345678-abcd-1234-5678-123456789abc
VMS VIP	192.168.1.10
VAST OS Version	5.3.0-build-123456
Support Contract	Premium 24x7 (Contract #: SUP-2025-001234)
Technical Account Manager	John Smith (jsmith@vastdata.com)

5.2. Emergency Contacts

VAST Support: +1-800-VAST-DATA

Support Portal: <https://support.vastdata.com>

Professional Services: ps@vastdata.com

Emergency Support: Available 24x7 for Premium Support customers

6. Appendix

Report Generation Details

Automated Data Collection: 80% via VAST API v7
Manual Data Entry: 20% (physical attributes, business information)
Generation Time: 3 minutes 42 seconds
API Access: Read-only credentials (security compliant)
Report Format: PDF with embedded JSON metadata

Documentation References

- VAST Cluster Administrator Guide v5.3
- VAST API Reference Guide v7
- Customer Network Integration Guide
- Troubleshooting and Maintenance Guide

*This report was generated automatically by the VAST As-Built Report Generator v1.1
For questions or updates, contact Professional Services at ps@vastdata.com*