

LogPoint Architecture (Reference)

Date: 2026-02-26

Source: Business expertise

Node Types

1. Data Node (DN)

Composition: Collector + Storage

Role: Log ingestion and storage

API Configurable: Yes

2. Search Head (SH)

Composition: Web interface + search engine + alerting

Role: Queries, dashboards, alerts

API Configurable: Yes

3. AIO (All-In-One)

Composition: Data Node + Search Head on single machine

Role: Monolithic SIEM

API Configurable: Yes (as DN + SH combined)

Deployment Types

Client A: AIO Only

```
Client A
└─ AIO-01 (all configuration)
```

Client B: Simple Distributed

```
Client B
└─ DN-01 (storage + collection site A)
└─ DN-02 (storage + collection site B)
└─ SH-01 (single interface for both DNs)
```

Client C: Distributed with Clustering

```

Client C
└── DataNode Cluster "production"
    ├── DN-PROD-01
    ├── DN-PROD-02
    └── DN-PROD-03 (same config as others)

└── DataNode Cluster "archive"
    └── DN-ARCHIVE-01 (different config from prod)

└── SearchHead Cluster "frontend"
    ├── SH-01
    └── SH-02 (same config, load balancing)

└── SH-Admin (dedicated admin search head, not in cluster)

```

Config ↔ Node Type Mapping

Config Type	Data Node	Search Head	AIO	Comment
Repos	✓	✗	✓ (DN part)	Physical storage
Routing Policies	✓	✗	✓ (DN part)	Log routing
Normalization Policies	✓	✗	✓ (DN part)	Log parsing
Processing Policies	✓	✗	✓ (DN part)	Processing pipeline
Device/Log Sources	✓	✗	✓ (DN part)	Log sources
Alert Rules	✗	✓	✓ (SH part)	Threat detection
Dashboards	✗	✓	✓ (SH part)	Visualization
Reports	✗	✓	✓ (SH part)	Periodic reports
Users/Permissions	✓	✓	✓	Authentication everywhere
System Settings	✓	✓	✓	SNMP, backup, etc.

Key CaC-ConfigMgr CaC Concepts

Pseudo-Cluster

Group of **same-type nodes** receiving the **same configuration**.

- **DataNodeCluster:** 1..N Data Nodes identical (HA, load balancing)
- **SearchHeadCluster:** 1..N Search Heads identical (HA, query concurrency)

Cross-References

- A Search Head can be connected to **1 or more** DataNodeClusters
- A client can have **multiple** DataNodeClusters (prod, archive, test...)

Configuration Granularity

- Config can target: **individual AIO, individual DN, individual SH**
- Config can target: **entire cluster** (applied to all members)
- Config can target: **entire client** (users, global settings)

Immutable Rule

Config elements are **associated by node type**:

- Repos can only be deployed on Data Nodes
- Alerts can only be deployed on Search Heads
- Users go everywhere

Note: An AIO = DataNode + SearchHead combined