Splunk Admin (Real Time)

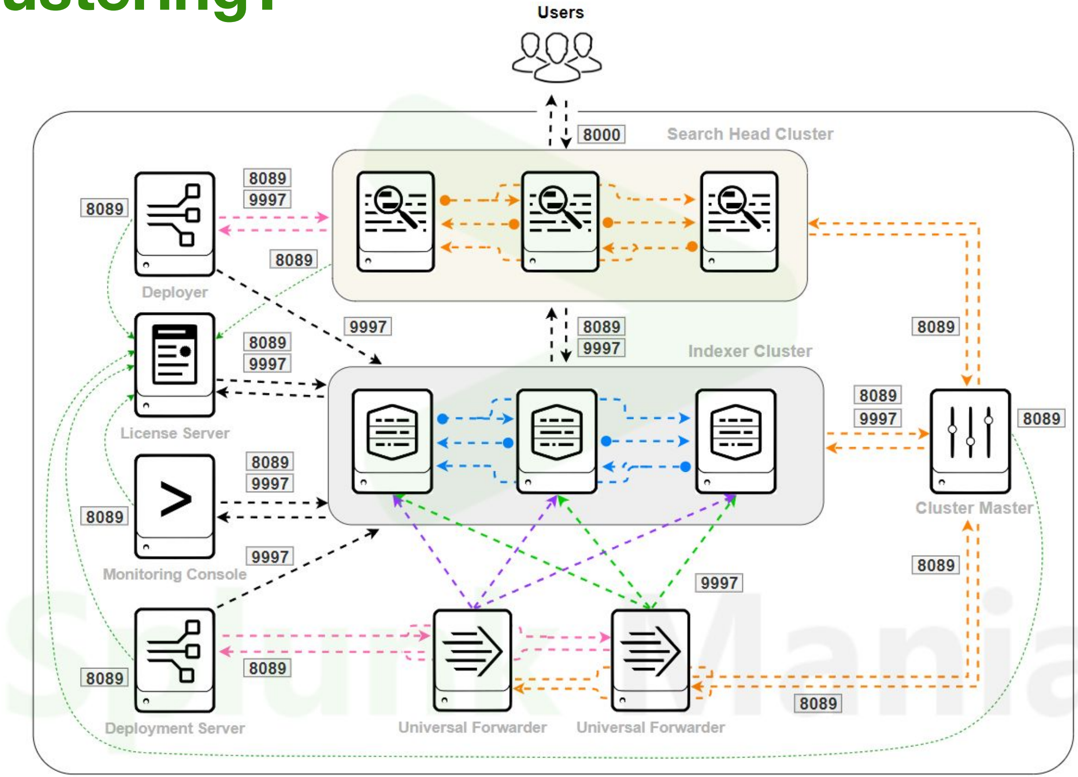
Day 18 - Phase 2

Splunk Mania

Why do we need Clustering?

Ease of management

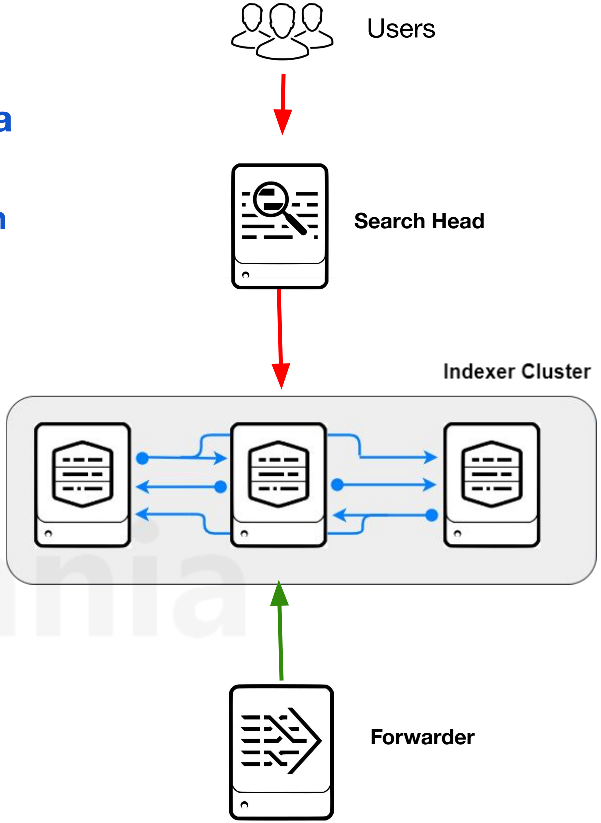
High availability



Indexer Cluster

Group of Indexers configured to replicate each others' data

- Replicates & Keeps Multiple Copies of data - **Index Replication**
- **Prevents Data loss** & Promotes **Data availability**
- Incoming data is indexed for sure with support of **Automatic Failover**
- Simplified Management
  - **Coordinates configuration updates** across all Peers/Indexers
  - Built-in **distributed search capability**
  - Indexer discovery - **Automatic load balancing**



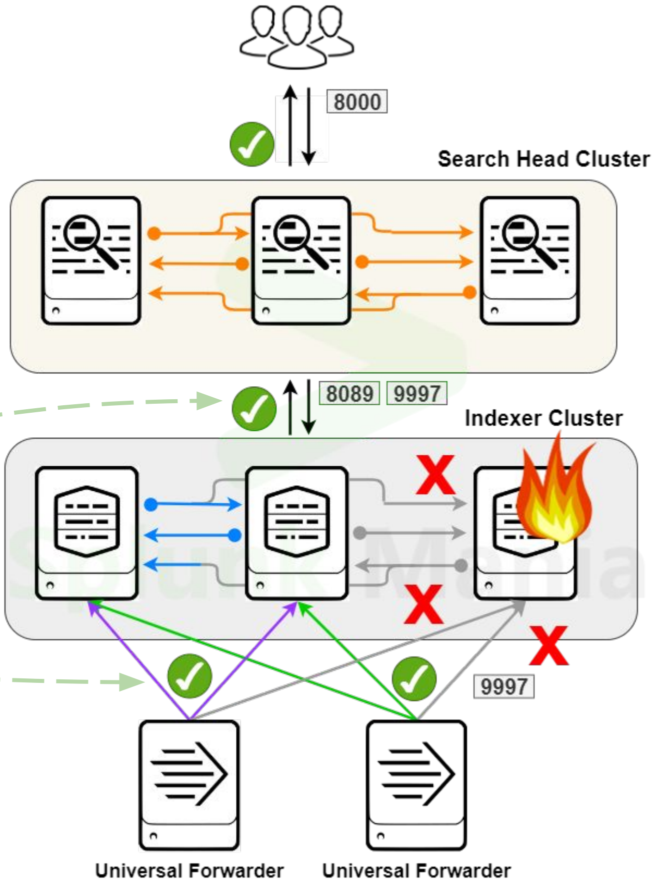
Indexer Cluster (cont.)

Data Availability

An indexer is always available to

1) Handle incoming data,

2) Indexed data is available for searching.

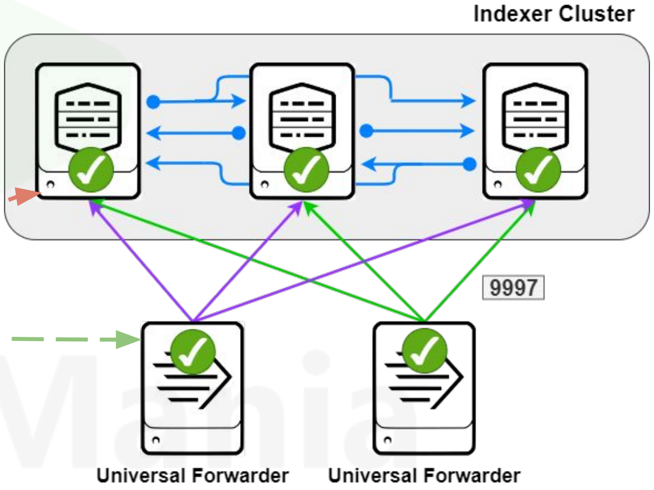


Indexer Cluster (cont.)

Data Fidelity

You never lose any data.

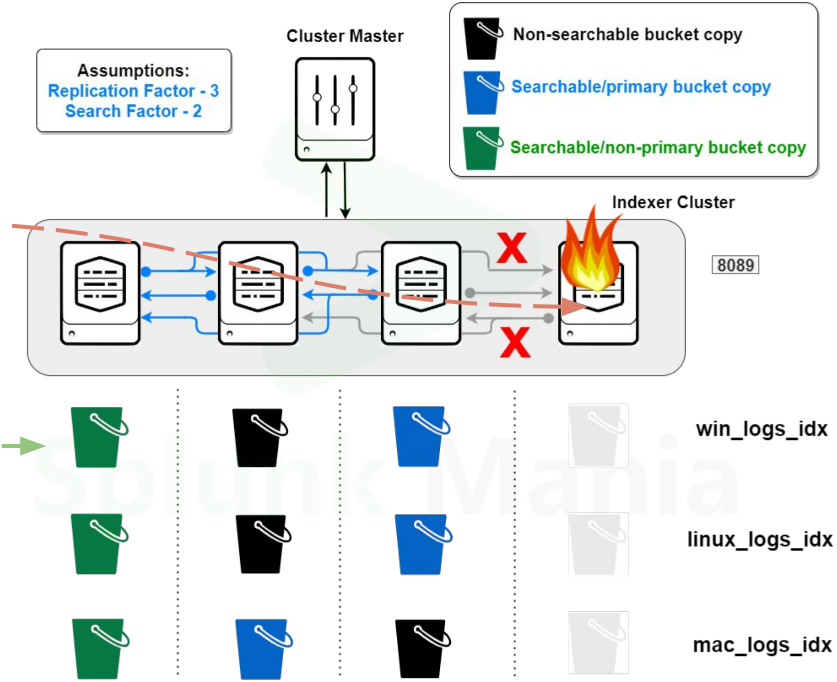
You have assurance that the **data sent to the cluster** is exactly the same **data that gets stored** in the cluster and that a search can later access.



Indexer Cluster (cont.)

Data Recovery

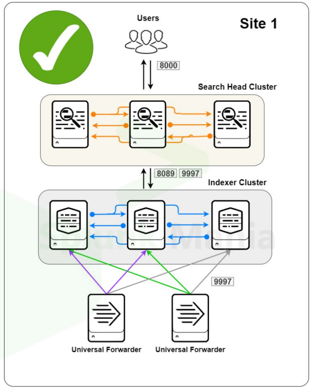
Your system **can tolerate downed indexers** **without losing data or losing access to data.**

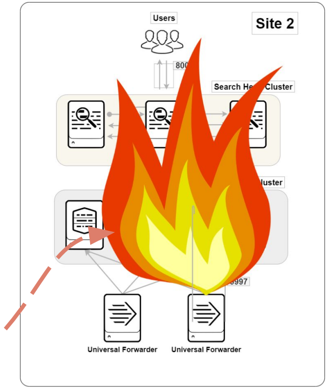


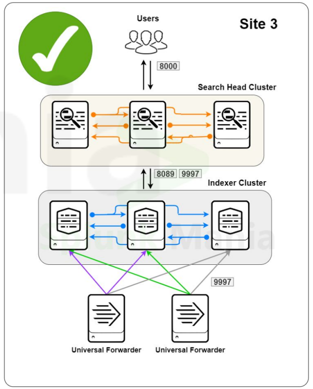
Indexer Cluster (cont.)

Disaster Recovery

With multi-site clustering, your system **can tolerate the failure of an entire data center.**



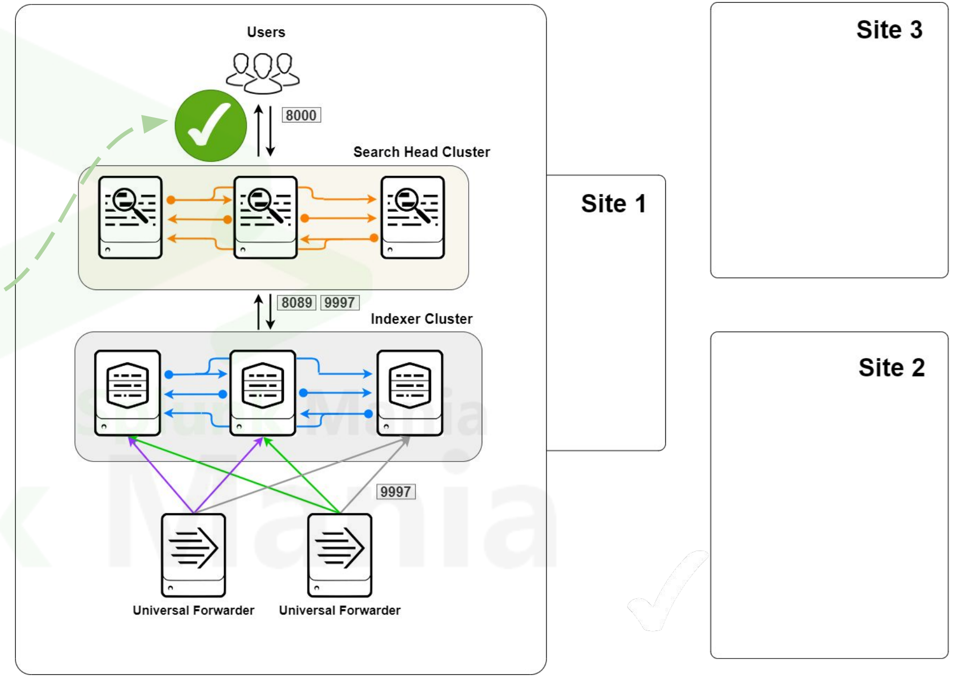




Indexer Cluster (cont.)

Search Affinity

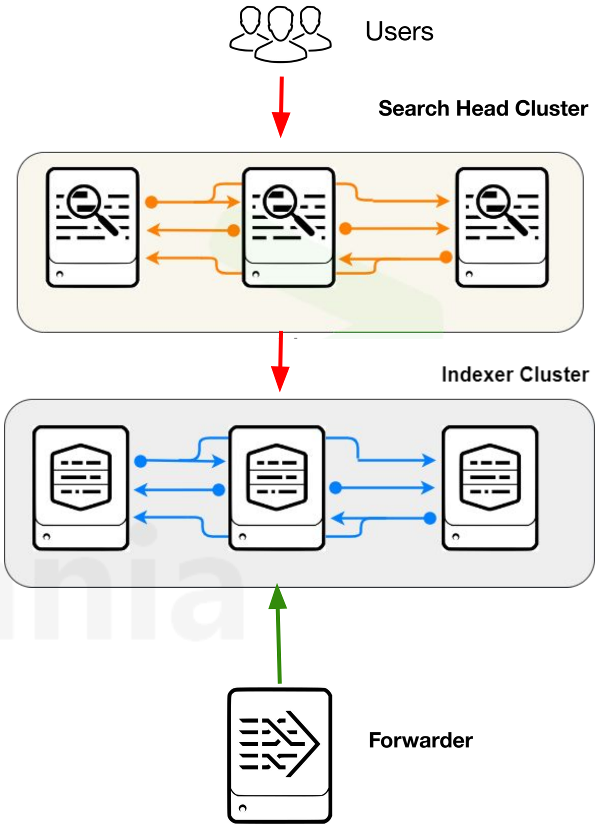
With multi-site clustering, **search heads can access the entire set of data** through their local sites, greatly **reducing long-distance network traffic.**



Search Head Cluster

Group of Search Heads - Central Resource for Searching

- Shares Knowledge objects, apps, and all other configurations
- **Same Search gives same result in all Search Heads**
- Some of the benefits:
  - **Horizontal scaling** - add/remove more search heads based on the load
  - **High Availability -** Same results across all Search Heads
  - **No single point of failure -** Dynamic captain



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