SolrCloud

Duration: 24 hours

Day 1

Getting Started with SolrCloud

* How SolrCloud Works
* SolrCloud Resilience
* SolrCloud Configuration and Parameters
* Rule-based Replica Placement
* Cross Data Center Replication (CDCR)
* SolrCloud Autoscaling
* Colocating Collections
* Shards and Indexing Data in SolrCloud
* Distributed Requests
* Read and Write Side Fault Tolerance

SolrCloud Configuration and Parameters (Docker and Kubernetes containerization)

* Setting Up an External ZooKeeper Ensemble
* Using ZooKeeper to Manage Configuration Files
* ZooKeeper Access Control
* Collections API
* Parameter Reference
* Command Line Utilities
* SolrCloud with Legacy Configuration Files
* ConfigSets API

Day 2

Legacy Scaling and Distribution

* Introduction to Scaling and Distribution
* Distributed Search with Index Sharding
* Index Replication
* Combining Distribution and Replication
* Merging Indexes

The Well-Configured Solr Instance

* Configuring solrconfig.xml
* Solr Cores and solr.xml
* Configuration APIs
* Implicit Request Handlers
* Solr Plugins
* JVM Settings
* v2 API
* Rule-based Replica Placement
* Cross Data Centre Replication (CDCR)

Day 3

Monitoring Solr

* Metrics Reporting
* Metrics History
* MBean Request Handler (important)
* Configuring Logging
* Using JMX with Solr
* Monitoring Solr with Prometheus and Grafana
* Performance Statistics Reference

Securing Solr

* Authentication and Authorization Plugins
* Enabling SSL
* Audit Logging

Client APIs

* Introduction to Client APIs
* Choosing an Output Format
* Client API Lineup
* Using JavaScript