



Wilshire Software Technologies

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Apache Cassandra DBA Schedule	
Topics	
Week - 1	Introduction of Cassandra (a NoSQL Database) and it's Advantages, CAP Theorem, Differences between SQL and NoSQL .
	Cassandra Basic Architecture - Key Structures & Components, Internode Communication (gossip)
	Cassandra Advanced Architecture - 1 - Partitioners, Partition key, Indexes .
	Cassandra Advanced Architecture - 2 - Data Distribution, Replication & Snitches .
	Cassandra Data Modeling, Cassandra Data Writes .
	Read, Update and Delete data from Nodes .
Week - 2	Data Consistency - 1 - Different Consistency Levels .
	Data Consistency - 2 - Node Repair, Compaction Strategies (Size Tiered, Level & Time Window) .
	Installation, Configuration and Monitoring of Cassandra in Windows O/S & Linux .
	Create, Alter and Drop Keyspaces, Describing and Using Keyspaces .
	CQL, Select & DML operations on Tables / Column families Creating a Sample Application .
	Cassandra.yaml file, Cassandra-env.sh file, Cassandra Tools (Node, Stress, SStable Utilities) .
	Building Cassandra Cluster with 2 or more nodes .
	Cluster Management - Adding and Removing Nodes in existing Cluster .
	Cluster Sizing (Capacity planning as per no. of nodes and Data Replication) .
	Monitoring Cassandra Cluster using Datastax OPS Center, Datastax Dev Center .
... End of the Course ...	