RabbitMQ Course Outline

Duration: 4 Days(16 hrs)

Day 1

1.Introduction to RabbitMQ Setting up the required folders Downloading and installing RabbitMQ

2.Understanding messaging The role of a consumer The role of a producer Bindings consumers and producers Messages and durability How to verify delivery Messaging Consumers/Producers Consumers and producers Queues Exchanges and bindings Virtual hosts and separation Durability Using publisher confirms to verify delivery

3. Administering RabbitMQ Starting and stopping nodes RabbitMQ configuration files How to manage privileges Viewing statistics and analyzing logs Sending alerts How to set up parallel processing

Day 2:

4. High availability with cluster Architecture of a cluster Queues in a cluster Setting up a test cluster Distributing the nodes to more machines How to preserve messages: mirrored queues

5. Brokers on Clusters

6. A programmer perspective Writing robust code Installing and configuring HAProxy Failing clients between servers

7. Implementing failover and replication Setting up a load balancer-based master/slave Installing the Shovel plugin Configuring and running Shovel

Day 3

8. Web tools to administer RabbitMQ The RabbitMQ Management plugin Managing RabbitMQ from the web console Administering users from the web console Managing queue from the web console Using the command line interface

9. RabbitMQ and the REST API REST API features Accessing statistics vhost and user provisioning

10. Monitoring and securing RabbitMQ Message durability and Message acknowledgement Memory usage and process limits Inbuilt Monitoring techniques

Day 4

11.Security Setting up SSL Object Security Server Security concepts

12. Problem Determination Identifying Network based Issues CPU and Memory based tuning practices

13. Spring Boot Application creation with RabbitMQ Working with Queues in boot Using RabbitMQ as Message Engine