JBOSS Admin

1. ***Introduction to JBoss***
   - ✓ *Introduction*
   - ✓ *JBoss AS5 Architecture*
   - ✓ *Installation*
   - ✓ *Directory Structure*
   - ✓ *Running and shutting down the application server*
   - ✓ *Running and shutting down multiple servers simultaneously*
   - ✓ *JMX Console*
   - ✓ *Twiddle*

2. ***Deployment***
   - ✓ *Deployment of application and Un-deployment*
   - ✓ *Different application types that we can deploy to a server*
   - ✓ *Deployment ordering*
   - ✓ *Step by step process to create and deploy a sample jboss web application*
   - ✓ *Deployment challenges and Remedies*
   - ✓ *Configuring class loading repositories*

3. ***Logging and Data Source***

   - ✓ *Log4j and logging services*
   - ✓ *Configuring logging*
   - ✓ *Default Database Hypersonic SQL Database*
   - ✓ *Configuring Other Databases*
   - ✓ *Demo of Above concepts*

4. ***Configuring JBoss Web Server***

   - ✓ *Configuring Virtual Hosts*
   - ✓ *Configuring Context Paths*
   - ✓ *Configuring Connectors (Protocol, Ports, Concurrency and Timeouts)*
   - ✓ *Configuring Proxy Hostname and Proxy Port*
   - ✓ *Configuring Valves*
   - ✓ *Configuring Single Sing On (SSO) services*

5. *Clustering*

- ✓ *Clustering*
- ✓ *Launch JBoss Cluster*
- ✓ *Load Balancing using Apache2.2*
- ✓ *Session Replication*
- ✓ *Configuring Passivation*

6. *EJB*

- ✓ *Configuring EJBs*
- ✓ *Configuring Session Beans*
- ✓ *Configuring Transport Protocol*
- ✓ *Configuring EJB security*
- ✓ *Configuring Method level and Role based Security in EJBs*

7. *Security on JBoss*

- ✓ *Security Configurations*
- ✓ *Configuring security to JMX-Console*
- ✓ *Configuring security to Your Application*
- ✓ *Enabling SSL(HTTPS)*
- ✓ *Allowing application to access through only HTTPS*

8. *Basic JVM concepts*

- ✓ *Introduction to translators.*
- ✓ *Introduction to Java Development Kit*
- ✓ *Explanation on how Java code understandable to matchines.*
- ✓ *JVM Architecture.*
- ✓ *Explanation on Runtime Data Areas.*
- ✓ *Use of JIT Compiler.*
- ✓ *Detailed Explanation of Heap memory.*
- ✓ *Different parts of Heap Memory.*
- ✓ *Sun Hotspot VM memory spaces options*
- ✓ *Differences between Stack vs Heap in Java.*
- ✓ *Types of out of memory errors in Java*

9. ***JBoss Messaging service***

- ✓ *Configuring JBoss Messaging(JMS)*
- ✓ *Configuring JMS Destinations (Create and Configure Queue and Topics)*
- ✓ *Configuring Data source for JMS*
- ✓ *Configuring Security for JMS destinations*
- ✓ *Configuring secure message transport*

10. ***Performance tuning***

- ✓ *Going to production*
- ✓ *Configure JBoss AS For Production Environment*
- ✓ *Removing unwanted applications and services*
- ✓ *Configuring Logging*
- ✓ *Protecting Administration Console Applications*
- ✓ *Selecting Platform and JVM version*
- ✓ *Configuring JVM Memory Settings*
- ✓ *Changing Default HTTP Port to 80*
- ✓ *Configuring Data source Settings*
- ✓ *Configuring HTTP Connector Settings*
- ✓ *Configuring JSP Compilation Settings*