**JBOSS**

**1)** What are the new features added in JBOSS 6?

**A**: i) Management console has been introduced, by using this console we can do administration from centralized point.

ii) We have domain mode. By using this we can manage multiple EAP (Enterprise Applications) instances.

iii) It supports to jdk1.6 version.

iv) JAVA EE6 compliant (certified) server.

v) Modular class loading (or) on demand class loading.

vi) Light weight application server.

vii) It has simplified configuration like a) Domain.xml b) Host.xml

**2)** JBOSS supports TWO modes 1) Domain mode 2) standalone mode.

**3)** What is the folder (directory) structure of JBOSS?

**A**: i) bin ii) domain iii) standalone

i) Bin: it contains start scripts, by using command ***./domain.sh &*** we start the JBOSS server,

Users can be add to login console by using command ***./add-user.sh***

ii) Domain: domain folder contains

a) Configuration: Which contains main configuration of our server like domain.xml, host.xml, mgmt-group.properties and mgmt-user properties.

b) Servers: This folder contains all our server members information which are created by us.

c) Log: Which contains our JBOSS log files.

d) Data: Data contains your deployment (war, jar, ear) related hash files.

f) Temp: It contains the temporary files.

**4)** How many types of installation in JBOSS?

**A**: There are 3 types installations in JBOSS

1. Zip installation
2. RPM installation
3. JAR installation

Mostly we will use Zip installation.

**5)** What are the pre-requisites to install JBOSS?

**A**: i) RAM should be 512 Mb

ii) Jdk1.6 version should be install

iii) Disk space must be have 1GB which partition you choose to install.

**6)** What is domain mode?

**A**: We can configure & manage multiple instances by using single controller point.

**7)** What is the difference between TCP (Transmission Control Protocol) & UDP (User Datagram Protocol)?

**A**: TCP is gives the acknowledgement after message reached the destination, that’s why this is reliable protocol. In UDP there is no facility of acknowledgement.

**8)** What are the connectors available to integrate web server and application server?

**A:** i) Mod-proxy (used in APACHE)

ii) Mod-jk (used in APACHE)

iii) Mod-cluster (used in JBOOSS)

**9)** What is mean by Server-Group & what is the purpose of creating server-Groups?

A: Which consists of more than one server member is called server-group. If you want to provide high availability to our application we have to create server-groups.

**10)** What is mean by Port-offset?

**A**: To avoid the port conflicts we have to give the port-offset numbers with unique numbers.

**11)** Horizontal Cluster: Clustering members are belonging to different machines. In this commonly the IPS’s of cluster members should be different. It gives high availability to our application.

Vertical Cluster: Clustering members are belongs to same machine.

**12)** What is mean by Profile?

**A:** Collection of subsystems is called profile.

**13)** What is mean by subsystem?

**A**: Set of instructions OR configurations is called subsystem.

**14)** How many profiles are available in JBOSS?

**A:** we have 4 types of profiles in JBOSS, they are

i) Default-profile

ii) Ha-profile

iii) Full-profile

iv) Full-ha profile

i) Default-profile: it contains infinispan, logging, mail service, transactions, EJB modules.

ii) Ha-profile: it contains modcluster & jgroups subsystem along with default-profile subsystems.

iii) Full-profile: it contains messaging service along with default-profile subsystems.

iv) Full-ha profile: it contains both full & ha profile subsystems along with default-profile subsystems.

**15)** What is patch?

**A**: It is a readymade solution, which is taken from Red hat support team. If you want to upgrade the version we will download the patch file from Red hat support team.

**16)** How to apply the patch file in JBOSS?

**A:** Patchcan beapply in two ways 1) CLI mode 2) Management console

To apply in CLI mode first connect to CLI mode by using command ***./jboss-cli.sh --connect***

* ***./domain.sh –version*** (to know the current version of jboss)
* ***Patch history --host=master*** (it shows any patches applied before)
* ***Patch apply /home/venkat/patch file*** (patch file path) after execute this command we will get a message like “success”.
* ***Patch history --host=master*** (to check whether it changed to the applied patch)
* ***Patch rollback --patch-id=jboss-eap-6.4.1 --reset-configuration=true*** (if we want to restore the old version)

**17)** What is mean by JDBC?

**A**: This is a connectivity between database to application. OR

It is interface between java application and database it converts java calls into database specific calls.

**18)** What is mean by Data-source?

**A**: which contains the address of the database.

**19)** What is mean by Non-XA data-source?

**A:** When your application is configured in single database (i.e., sql, oracle, db2) is called non-xa data-source. In short form it is called single-phase commitment.

**20)** What is mean by connection pool?

**A:** It is readymade connection available in data source, which is used to communicate database.

**21)** What is load balancer?

**A:** Which balances the request flow to its pool members by using algorithm. We are using F5 load balancer.

**22)** What is sticky session (or) session affinity?

**A**: Once browser establishes a session with server, all requests from same browser would routes to same server until the session gets timed out.

**23)** What is application server?

**A**: An application server which serves the dynamic content. It supports RMI, LDAP, IOP, EJB, HTTP, HTTPS protocols.

**24)** What is the command to know the Jboss version?

**A**: ***./domain.sh –version***

**25)** What is mean by SSL?

**A**: SSL is a secure socket layer used to encrypt the data in between source and destination to

overcome the hacking issues.

**26)** How do you access the application in Jboss?

**A**: To access the application <http://localhost:8080/application> route

If security enabled <https://localhost:8443/application> route

**27)** What is EJB container?

**A:** It consists of Java beans, which is used to execute business logics.

28) Which command use to connect CLI mode in jboss?

**A:** ***./jboss-cli.sh --connect***

29) Where you check port related information in jboss?

**A:** In jboss directory go to domain then go to configuration in that **host.xml** file we will see all port related information.

30) How many ways you can manage you jboss?

**A:** By using management console, CLI and XML

31) What is know about Security Realms in Jboss?

**A:**  A security realm is a series of mappings between users and passwords, and users and roles. Security realms are a mechanism for adding authentication and authorization to your EJB and Web applications. JBoss EAP 6 provides two security realms by default: