

# MindBox E-Learning Services

## WEBSPHERE ADMINISTRATION ONLINE

### TRAINING | Duration : 30

Hours|Assignments|Materials| Record  
Videos|Realtime Examples|

#### **Unix/Linux/Windows commands**

- o File Commands
- o Process management
- o File permission
- o Searching
- o System Info
- o Compression
- o Network
- o VI Editor Commands

#### **Application Server Overview**

- o Need for application servers
- o WAS management features
- o WAS flavours
- o WAS Topologies
- o WAS 8.5 new features

#### **Install & Uninstall**

- o Installation planning
- o Product installation in GUI and silent mode
- o Profile creation in GUI and silent mode
- o Uninstalling product in GUI and silent mode

#### □ **Logs and Configuration**

- o Understanding product directory structure
- o Various log files written by WAS
- o HPEL
- o Configuring WAS classloaders

#### □ **Profiles and Centralized Configuration Management**

- o Profiles what they are and how they work
- o WebSphere Configuration repository
- o Centralized configuration management in Web Sphere

#### □ **Cluster Concepts**

- o Basic terminology
- o Federating nodes into DMGR cell
- o Vertical and Horizontal clustering
- o Node synchronization
- o Assigning weights to cluster members
- o Cluster level operations

#### □ **JDBC**

- o JDBC providers
- o Creating data source & testing connection
- o Connection pool settings

#### □ **JMS**

- o Why JMS?
- o Messaging models
- o JMS – administered objects
- o WAS JMS – High level picture

- o Service Integration Bus
- o File store and Data store
- o WebSphere MQ messaging
- o WebSphere MQ Link

#### **Application Deployment**

- o Understanding virtual hosts
- o Deployment – High level picture
- o Application targets
- o Deployment using admin console
- o Monitored directory deployment

#### **High availability**

- o Understanding session affinity
- o Deploying applications in a cluster
  
- o Clustering and JMS
- o Clustering and JDBC
- o Clustering and EJB requests
- o Understand Session replication & persistence
- o Dynamic Cluster

#### **Job Manager**

- o Creating Job Manager Profile
- o Registering DMGR and base nodes to Job Manager
- o Creating and scheduling jobs for execution

#### **Administrative Agent**

- o Creating administrative agent profile
- o Registering & Deregistering application server nodes
- o Working with administrative agent console

#### **IBM HTTP Server & WAS Plug-in**

- o Installing IHS and WebSphere Plug-in

- o Creating Web server definition
- o Plug-in generation and propagation

- **SSL Part I**

- o SSL Concepts
- o Configure SSL between IHS and WAS
- o The ikeyman tool

- **SSL Part II**

- o Inbound SSL
- o SSL Configuration object
- o Outbound SSL
- o Monitoring Certificate Expiry

- **Monitoring and Tuning**

- o Analyzing Thread Dumps
- o Analyzing Heap Dumps
- o Dump Agents
- o JVM Tuning
- o Analyzing GC log messages using GCMV
- o Performance monitoring infrastructure (PMI)

- **Security**

- o Introduction to WAS security
- o User, Group and Role
- o Authentication and Authorization
- o Securing different types of applications

- **Monitoring Environment**

- o FileSystem monitoring
- o CPU utilization
- o JVM heap size
- o Http Session
- o Connection Pool

- o process id monitoring
- o Network Monitoring

□ **ITIL Processes**

- o Incident management
- o Problem management
- o Change management
- o SLA

□ **Different type of environments:**

- o Production
- o DR (disaster recovery)
- o Pre-production
- o Test
- o Development

**BENEFITS OF TRAINING:**

**10 + Years Of Experience Trainer**  
**Record Videos**  
**Real Time Materials**  
**Real Time Examples**  
**Resume Preapartion**  
**Interview & Questions**

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