BM Certified System Administrator

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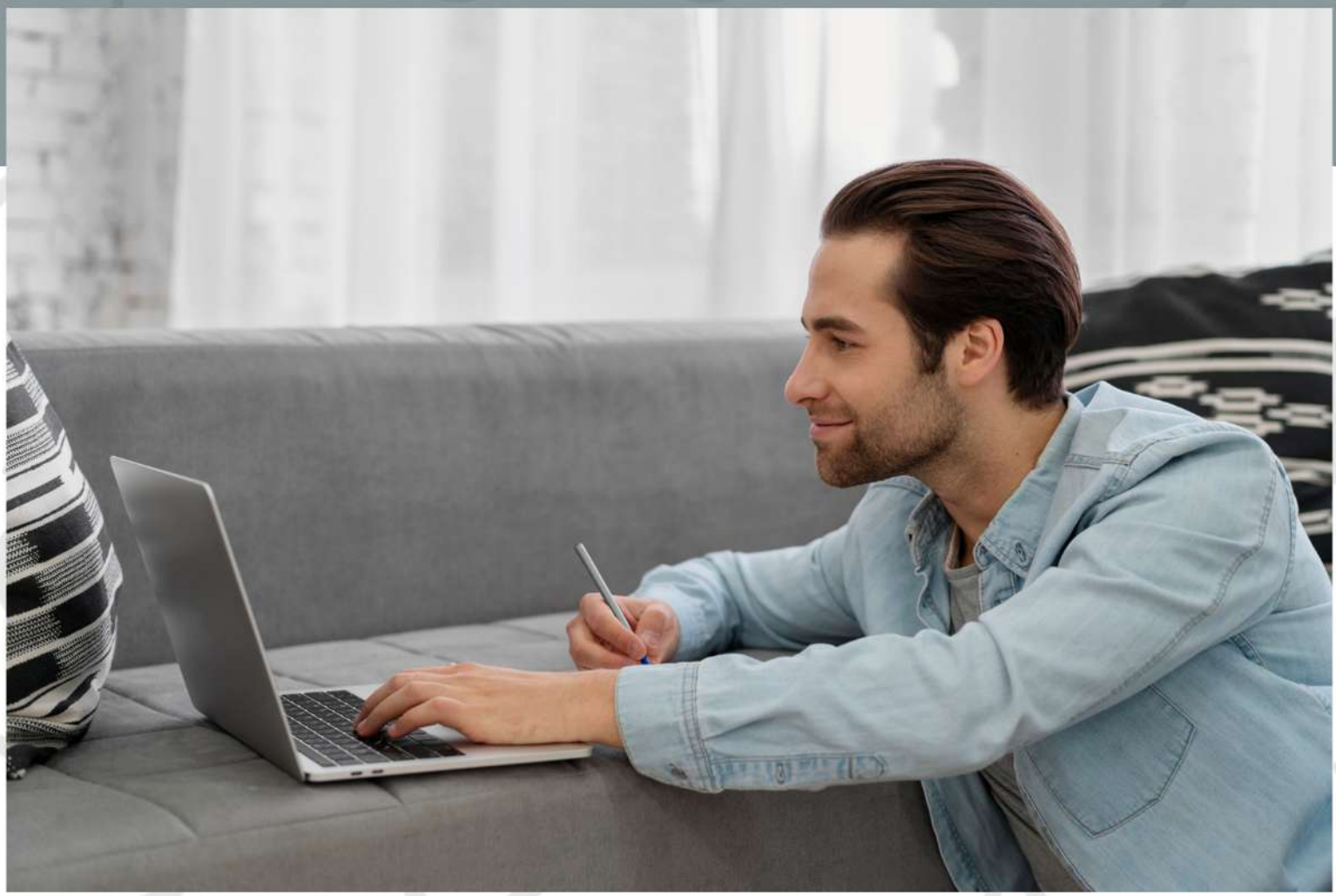

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Online Course

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Course Modules

1. Architecture

- Identify the components and services in a WebSphere Application
- Design various WebSphere Application Server topologies
- Appropriate design considerations when architecting topologies
- Understanding of how requests traverse various WebSphere App
- Demonstrate an understanding of the administration activities
- Identify and describe the components of the WebSphere App

2. Product Installation, Configuration and Maintenance

- Demonstrate an understanding of the IBM Installation Manager
- Perform a silent installation process for WebSphere Application
- Perform pre and post installation verification.
- Troubleshoot installation problems.
- Create and manage Full and Liberty profiles.
- Manage nodes in a WebSphere topology, for example, managed
- Backup & restore configuration including the use of checkpoints.

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3. Application Management

- Explain the structure of enterprise applications, web applications
- Deploy applications to a WebSphere App Server environment.
- Configure resources, for example, data sources, JNDI, class paths
- Use the IBM Rational App Developer for WebSphere Software
- Understanding of the administrative tasks required to take

4. Administrative Tools

- Usage of the Integrated Solns Console (ISC) and its various tools
- Use the standard set of command line administrative tools
- Capabilities of the Job Manager tooling including the submission
- Use scripting to perform administrative tasks, for eg, scripting
- Write, test, and debug scripts by using the IBM Rational App
- Configure or modify a WebSphere Application Server environmnt

5. Security Configuration and Maintenance

- Configure user repositories.
- Configure SSL for clients & servers, for example, create certificts..
- Discuss the implications of resource security settings.
- Implement multiple security domains.
- Apply administrative and application security roles.
- Configure differnt authentication and authorization mechanisms
- Config Java Enterprise, Liberty, Web and Web Services Security.

6. Clustering and Workload Management

- Configure clusters in workload management topologies.
- Configure and manage the HTTP server & the web server plug-in.
- Configure distributed session management for high availability
- Config messaging engine policies for clustered service integration
- Configure high availability using core groups.
- Utilize the capabilities of the Liberty collectives.

7. Intelligent Management and Resiliency

- Use the dynamic cluster elasticity feature.
- Configure On Demand Routers (ODR) and the ODR plug-in
- Use health policies and actions to monitor and react to changing
- Configure and maintain application editions.

8. Performance Monitoring and Tuning

- Tivoli Performance Viewer (TPV) to monitor the WebSphere App
- Tivoli Performance Viewer (TPV) Advisor & the Diagnostic Advisr
- Tune parameters, for example JVM settings, connection pools
- Performance Monitorg Infrastructre (PMI) metrcs & poll MBeans
- Config & monitr the WebSphere App Server caching mechansms.
- Configure multi-cell performance management.

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For Enquiry: +91 8680961847

9. Problem Determination

- High Performance Extensible Logging (HPEL) & view HPEL data.
- Cross Component Trace (XCT) & view trace data in XCT Log Viewr.
- Use tools to trigger and analyze heap dumps, javacore dumps
- Configure diagnostic tracing.
- Use "mustgather" doc & the IBM Support Assistant to collect
- Configure, review and analyze log files for example, (FFDC)

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For contact: +91 8680961847
+91 9600579474