

INFOSOFT IT SOLUTIONS

Training | Projects | Placements

Revathi Apartments, Ameerpet, 1st Floor, Opposite Annapurna Block,

Info soft it solutions ,Software Training& Development 905968394,918254087

IBM Z/VM TRAINING

1. Introduction to IBM Z/VM

- Overview of IBM Z/VM (Virtual Machine)
- History and evolution of VM
- Advantages and use cases

2. Architecture and Components

- Virtual Machine Architecture
- Control Program (CP) and Virtual Machine (VM)
- Directory Maintenance Facility (DMF)
- Virtual Machine Operating System (VM/ESA, z/VM)

3. Installation and Configuration

- System requirements and hardware considerations
- Installation process
- Configuration of z/VM

4. Managing Virtual Machines

- Creating and deleting virtual machines
- Virtual machine resources (CPU, memory, storage)
- Networking configuration (LAN, OSA)

5. User Interfaces and Commands

- CP and CMS command interfaces
- Conversational Monitor System (CMS)
- Command-line interface (CP commands)

6. Virtual Machine Management

- Resource allocation and management
- Performance monitoring and tuning
- Backup and restore procedures

7. Networking in Z/VM

- Networking concepts in z/VM
- Configuring virtual switches and LANs
- TCP/IP configuration and management

8. Security in Z/VM

- User authentication and authorization
- Access controls and permissions
- Securing VM environments

9. Storage Management

- DASD (Direct Access Storage Device) management
- Disk space allocation and management
- Backup and recovery strategies

ADVANCE TOPICS :-

1 Advanced Virtual Machine Management

- Dynamic resource allocation (Dynamic Capacity Upgrade, Dynamic Memory Upgrade)
- Workload management and performance optimization
- Advanced virtual machine networking configurations (VSWITCH, VSWITCH server)

2. z/VM System Automation

- Automated deployment of virtual machines (Autoinstall)
- Scripting and automation using REXX and CP commands
- Automation tools and utilities (e.g., VMPro, VM/SES)

3. Advanced Networking and Connectivity

- Network security and isolation techniques (Virtual Switch Security, VLANs)
- Integration with external networks (Guest LANs, External VSWITCH)
- Advanced TCP/IP configuration and management (IP reconfiguration, IP Storage, IP WLM)

4. Performance Monitoring and Tuning

- Performance metrics and monitoring tools (Performance Toolkit for VM)
- Capacity planning and resource utilization
- Tuning z/VM for optimal performance (HiperDispatch, Large Pages)

5. Disaster Recovery and High Availability

- Clustering and failover techniques (Parallel Sysplex)
- Backup and restore strategies for virtual machines and z/VM
- Disaster recovery planning and implementation

6. Security Enhancements

- Advanced user authentication mechanisms (SecureID, Kerberos)
- Implementing encryption in z/VM (z/VM Cryptographic Services)
- Security auditing and compliance (VM Security Manager)

7. Advanced Storage Management

- DASD management strategies (HyperPAV, Multiwriter DASD)
- Storage virtualization and advanced disk configurations
- Backup and recovery automation (Snapshot and Instant Restore)

8. Integration with Other IBM Systems

- Integration with IBM z/OS and z/Linux environments
- VM guest clustering and workload balancing (VM Cluster Services)
- Interoperability with IBM Cloud Infrastructure (IBM Cloud for z)

9. Advanced Troubleshooting and Debugging

- Diagnosing performance issues (z/VM Performance Analyzer)
- Debugging techniques and tools (DASD Recovery Tool, VM/370 Problem Diagnosis)