PostgreSQL DBA

Duration: 2 Days

Day 1 – PostgreSQL Administration, Backup & High Availability

- **Module 1: PostgreSQL Architecture, Installation & Configuration**
- PostgreSQL architecture and installation
- Database configuration and administration
- User, role, and security management
- Practical: PostgreSQL setup and database administration

Module 2: Backup, Recovery & Disaster Recovery

- PostgreSQL backup and recovery
- WAL and Point-in-Time Recovery (PITR)
- Disaster recovery planning
- Practical: Backup and recovery demonstration

Module 3: High Availability & Replication

- PostgreSQL high availability concepts
- Streaming and logical replication
- Failover and recovery operations
- Practical: Replication configuration

Day 2 – Performance, Advanced Administration & Azure PostgreSQL

Module 4: Performance Tuning & Troubleshooting

- PostgreSQL performance tuning
- Database monitoring and troubleshooting
- Query optimization and performance analysis
- Practical: Performance troubleshooting

Module 5: Advanced PostgreSQL Administration

- Table partitioning and Change Data Capture (CDC)
- Connection pooling
- PostgreSQL upgrades and automation
- Practical: DBA maintenance operations

Module 6: Azure PostgreSQL & Production DBA Operations

- Azure Database for PostgreSQL administration
- Backup, security, and monitoring in Azure
- End-to-end production DBA operations
- Practical: Production DBA scenario walkthrough