OpenStack Administration

Course Details

✅ Duration -
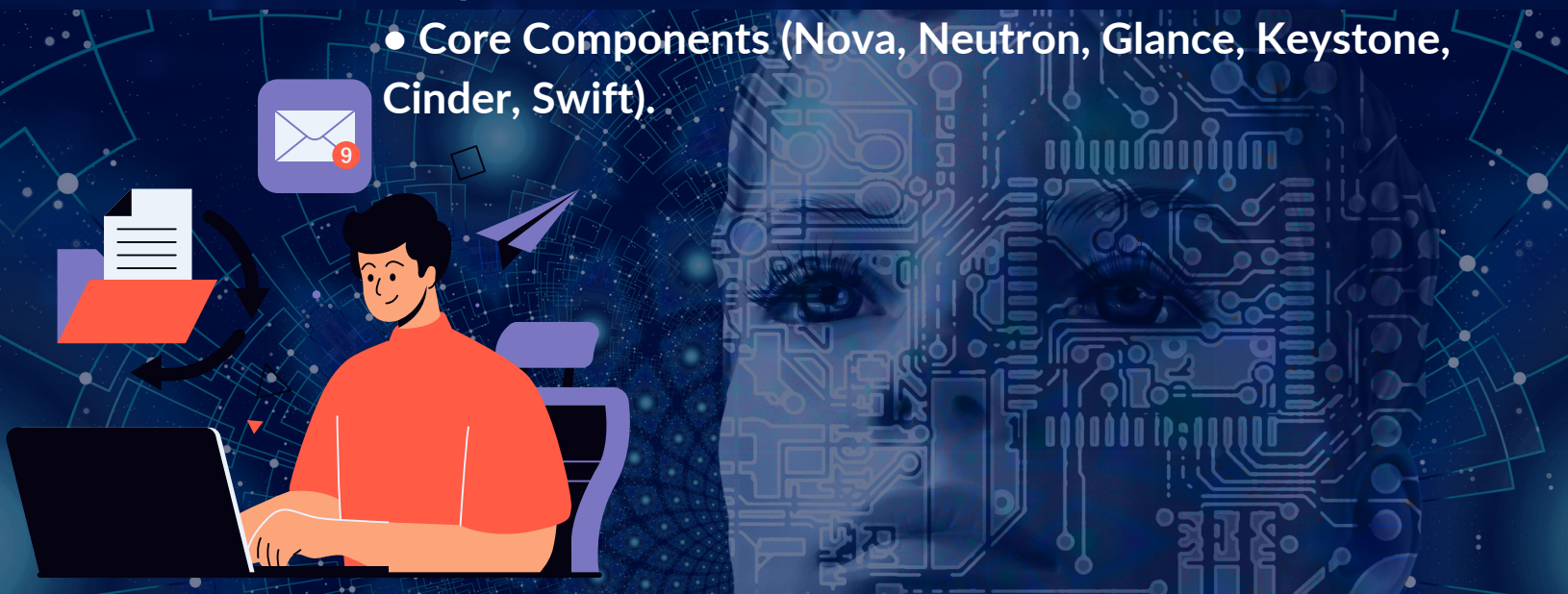✅ Format -
✅ Training Type – Classroom Training

OpenStack Administration

Deploy, configure, and manage scalable private cloud infrastructure using OpenStack. Master core components and real-world enterprise cloud scenarios.
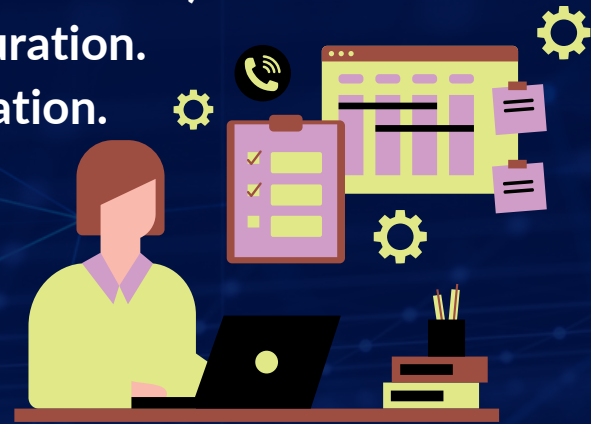
OpenStack Administration

MODULE 1: INTRODUCTION TO OPENSTACK & CLOUD COMPUTING

- What is OpenStack?
- Benefits of Private Cloud Infrastructure.
- OpenStack Architecture Overview.
- Core Components (Nova, Neutron, Glance, Keystone, Cinder, Swift).

MODULE 2: ENVIRONMENT SETUP & DEPLOYMENT

- Lab Setup (DevStack, PackStack, Manual Installation).
- System Requirements and Network Configuration.
- OpenStack Installation and Services Verification.

MODULE 3: OPENSTACK COMPUTE (NOVA) MANAGEMENT

- Launching and Managing Instances.
- Flavors and Images.
- Key Pairs and Instance Access.
- Nova Scheduler and Hypervisor Management.

MODULE 4: IDENTITY, IMAGE, & DASHBOARD SERVICES

- Keystone (Authentication & Authorization).
- Glance (Image Services).
- Horizon (Web Dashboard for Admin & Users).

MODULE 5: NETWORKING WITH NEUTRON

- OpenStack Networking Concepts.
- Provider & Self-Service Networks.
- Router, Floating IPs, Security Groups.
- DHCP, VLAN, VXLAN Integration.

MODULE 6: BLOCK & OBJECT STORAGE

- Cinder – Block Storage Management.
- Volume Attach/Detach.
- Swift – Object Storage Configuration.
- Backup & Recovery Strategies.

MODULE 7: MONITORING, LOGGING & TROUBLESHOOTING

- Common Logs and Services.
- Basic Debugging Tools (CLI, Logs).
- Integration with Monitoring Tools (Nagios, Prometheus).
- OpenStack Upgrades & Patching.

MODULE 8: PROJECT WORK & CERTIFICATION

- Real-World Infrastructure Simulation
- Practice with Admin Tasks
- Final Assessment & Review
- Interview Readiness & Certification Tips

NEED MORE DETAILS ? :

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