"A 3 day AI workshop on Mastering IaaS: Infrastructure as a Service"

Day 1: Introduction & Fundamentals of IaaS

Objective: Understand the basics of IaaS, its ecosystem, and core services.

Topics Covered:

1. **Cloud Computing Overview**
   - Cloud service models: IaaS, PaaS, SaaS
   - Public, Private, Hybrid clouds
   - Benefits & challenges of cloud adoption
2. **Introduction to IaaS**
   - Definition and core concepts
   - Key providers: AWS, Azure, GCP, IBM Cloud
   - Use cases of IaaS in enterprises
3. **IaaS Architecture**
   - Virtualization & hypervisors
   - Compute, storage, and networking resources
   - Scalability and elasticity
4. **Hands-on Lab:**
   - Setting up a cloud account (AWS/Azure/GCP free tier)
   - Launching a virtual machine (VM)
   - Basic VM configuration

Day 2: Core IaaS Services & Management

Objective: Explore key IaaS components and learn how to manage cloud resources effectively.

Topics Covered:

1. **Compute Services**
   - Virtual machines, instances, and auto-scaling
   - Load balancing & high availability
2. **Storage Services**
   - Object, block, and file storage
   - Backup, snapshots, and redundancy
3. **Networking Services**
   - Virtual networks, subnets, and IP addressing
   - Firewalls, security groups, VPNs
4. **Security & Compliance**
   - IAM (Identity & Access Management)
   - Encryption & compliance best practices
5. **Hands-on Lab:**
   - Deploying multi-tier applications using VMs
   - Configuring storage and network resources
   - Setting up basic security policies

Day 3: Advanced IaaS Features & Optimization

Objective: Learn advanced techniques, cost management, and real-world deployment strategies.

Topics Covered:

1. **Monitoring & Management**
   o Cloud monitoring tools & dashboards
   o Logging, alerts, and automated scaling
2. **Cost Management**
   o Pricing models and cost optimization strategies
   o Resource tagging and usage analysis
3. **High Availability & Disaster Recovery**
   o Designing resilient infrastructure
   o Backup & failover strategies
4. **Best Practices & Case Studies**
   o Enterprise adoption examples
   o Migration from on-premises to IaaS
5. **Hands-on Lab:**
   o Implementing auto-scaling and load balancing
   o Configuring monitoring and alerts
   o Simulating disaster recovery

Workshop Deliverables:

- Hands-on experience in deploying IaaS resources
- Understanding IaaS architecture, security, and cost management
- Practical labs to design scalable and resilient cloud infrastructure
- Certificate of completion (optional)

Instructor: Mr Suresh Tripathi is a founder of Geosun Pty Ltd an Australian company registered in year 2000 to provide AI corporate training, data center solutions and data pipeline end-to-end cloud platform. He has nearly 25+ years of work experience in digital data analytics integrated with AI and tech platforms. His education qualifications include master degree in Statistics from India, master degree in Geostatistics from Australia and master degree in Geoscience from Australia. He completed his AI certificate courses from Stanford Business School from California and High Impact Leadership from Cambridge University, UK. He has worked in Australia and US focusing his career on data strategy, tech platforms, and developing in-house training. He has worked with range of industries in Australia and US that include Deloitte, Flybuys, Ambulance Victoria, CFA (Emergencies Services), Avexa, Covance, Avance Clinical (Pharmaceuticals), Intelligen, Commonwealth Bank, Hackett Group (US), Health and Safety Sphera Solutions(US), Vic Government (Environment, water and energy), Waste Management (US), Outfront Media (US), Adani Mining (Australia) and Fura Gems Industries (Dubai).

Fee: Rs 50,000 per participant plus GST payable to GeosunAI Tech Cloud Pvt Ltd. RTGS/Cheque/ PhonePe via below link form.

Bank: Punjab National Bank

Account Name: NB, GeosunAI Tech Cloud Pvt Ltd

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