A 3 day workshop on Platform as a service

Day 1: Introduction to PaaS & Cloud Fundamentals

Objective:

Understand the basics of cloud computing, PaaS concepts, and ecosystem overview.

Topics Covered:

1. **Cloud Computing Overview**
   - IaaS vs PaaS vs SaaS
   - Cloud deployment models (Public, Private, Hybrid)
   - Benefits of cloud adoption
2. **Introduction to PaaS**
   - Definition and core components
   - PaaS architecture
   - Key features: scalability, multi-tenancy, automation
3. **Popular PaaS Providers**
   - Microsoft Azure App Service
   - Google App Engine
   - AWS Elastic Beanstalk
   - Heroku
4. **Hands-on Lab:**
   - Create a free-tier PaaS account (Azure/GCP/AWS)
   - Deploy a simple web application
   - Explore the dashboard and core services

Day 2: Developing & Deploying Applications on PaaS

Objective:

Learn how to build, deploy, and manage applications using PaaS.

Topics Covered:

1. **Application Development on PaaS**
   - Supported languages and frameworks
   - Continuous integration/continuous deployment (CI/CD) pipelines
   - Configuring runtime environments
2. **Deployment Strategies**
   - Blue-green deployments
   - Rolling updates
   - Auto-scaling configurations
3. **Security & Monitoring**
   - Identity and access management
   - Logging and monitoring tools
   - Backup and disaster recovery
4. **Hands-on Lab:**
   - Deploy a multi-tier web application
   - Configure CI/CD pipeline (GitHub Actions / Azure DevOps)
   - Set up monitoring and alerts

Day 3: Advanced PaaS Concepts & Best Practices

Objective:

Understand advanced features, integration patterns, and optimization strategies for PaaS.

Topics Covered:

1. **Advanced PaaS Services**
   - Serverless computing
   - Database as a service (DBaaS)
   - Messaging and event-driven architecture
2. **Integration & Microservices**
   - Connecting PaaS apps with SaaS services
   - Microservices deployment on PaaS
   - API management
3. **Cost Management & Optimization**
   - Cost monitoring tools
   - Resource optimization best practices
4. **Hands-on Lab:**
   - Implement a serverless function connected to PaaS app
   - Integrate PaaS app with a cloud database
   - Perform cost analysis on deployed resources
5. **Wrap-up & Q/A:**
   - Review key concepts
   - Discuss real-world use cases
   - Provide additional resources for continued learning

Deliverables for Participants:

- A deployed web application on PaaS
- CI/CD pipeline setup
- Monitoring dashboard and alert configuration
- Hands-on experience with serverless functions and cloud DB integration

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 25,000 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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