
1-Day Workshop Plan on IaaS (Infrastructure as a Service) — suitable for corporate teams, students, IT professionals, or university programs.

1-Day Workshop on Infrastructure as a Service (IaaS)

Title: *"Mastering IaaS: Deploy, Manage & Scale Cloud Infrastructure"*

Duration: 1 Day (6–7 Hours)

Audience: Students, IT engineers, DevOps beginners, cloud learners, startups

Workshop Objectives

By the end of the workshop, participants will:

- Understand what IaaS is and how it differs from PaaS & SaaS
- Learn major IaaS providers: AWS, Azure, Google Cloud
- Deploy and manage virtual machines (VMs) on the cloud
- Configure networking, storage, and security
- Understand cost models and billing
- Gain hands-on experience with real cloud consoles or simulations

09:00 – 09:30 | Introduction to Cloud Computing & IaaS

- What is Cloud Computing?
- Service Models: IaaS vs PaaS vs SaaS
- Deployment Models: Public, Private, Hybrid
- Where IaaS fits into enterprise IT
- Real-world examples: Netflix, Airbnb, Uber, Govt. Clouds

09:30 – 10:15 | Deep Dive into IaaS Architecture

- Compute (VMs, EC2, Azure VM, GCE)
- Storage (Block, Object, File)
- Networking (VPC, Subnets, Security Groups)
- Hypervisors & Virtualization
- Load balancing, Auto Scaling
- High Availability & Disaster Recovery

10:15 – 10:30 | Tea Break

10:30 – 11:30 | Major IaaS Platforms Overview

- AWS IaaS Components
 - EC2, EBS, S3, VPC, IAM
- Azure IaaS Components
 - Virtual Machines, Storage Account, VNets
- Google IaaS Components
 - Compute Engine, Cloud Storage, VPC
- Comparing the platforms: pricing & ease of use

11:30 – 12:30 | Hands-On Lab Session (Choose One Provider)

1. Create a Cloud Account / Use Instructor Demo Account
2. Launch a Virtual Machine (Ubuntu/Windows)
3. Connect via SSH/RDP

4. Install a basic web server (Apache/nginx/IIS)
5. Access the web page from browser
6. Understand billing dashboard

12:30 – 01:30 | Lunch Break

01:30 – 02:15 | Networking & Security in IaaS

- VPC / VNet architecture
- Subnets (Public vs Private)
- Firewalls & Security Groups
- VPN, Peering, Gateways
- Identity & Access Management (IAM)

Participants will configure:

- Firewalls (open ports 22/80/443)
- Create a security group
- Restrict access based on IP

02:15 – 03:00 | Storage & Backup in IaaS

- Block Storage
- Object Storage
- File Storage
- Snapshots and Backup Policies
- Lifecycle Management & versioning
- Demo: Uploading data to S3/Azure Storage/GCS bucket

03:00 – 03:15 | Tea Break

03:15 – 04:00 | Automation & Scaling

- Auto Scaling
- Load Balancers
- Infrastructure as Code (IaC) intro
- Quick demo of Terraform / CloudFormation
- When to use automation

04:00 – 04:30 | Cost Management

- Pricing models (On-demand, Reserved, Spot)
- TCO (Total Cost of Ownership)
- Cost Optimization Strategies
- Tools: AWS Cost Explorer, Azure Cost Management
- Best practices for reducing bills

04:30 – 05:00 | Q&A + Certificate Distribution

- Recap & key takeaways
- Mini quiz (5 questions)
- Feedback session

- Certificate distribution

Deliverables Provided to Participants

- Workshop PPT
- Hands-on Lab Guide (PDF)
- Sample Terraform scripts
- Cloud reference architecture diagrams
- Cheat sheets (AWS/Azure/GCP)

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

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