

VARIYAS LABS

Company Profile

Jan 2025

About Us

At VARIYAS LABS, we are at the forefront of delivering innovative IT solutions since 2016. Our team specializes in consulting services, cloud technology, software development, and modern infrastructure management.

From startups to large enterprises, we help businesses accelerate their digital transformation using the best open-source tools and technologies that compliments your DevOps initiatives and augment your applications efficiency and time to market.

We help you in designing mission critical IT infrastructure and applications Innovate, Automate, and Accelerate with Us!

At Variyas Labs, we innovate, optimize, and accelerate your journey toward modern, scalable, and high-performance solutions.

Empowering Businesses with Cutting-Edge IT Solutions

- Strong focus on business needs
- Curated tech stack
- Comprehensive documentation
- Optimize workflow

Our Approach

- Client Centric
- Meticulous Planning
- End to End Delivery

Core Services



Solution Design & Architecting



DevOps Consulting Services



Cloud Cost Optimization



Cloud Setup



Cloud Migration



Software Design & Development



Application Modernisation



PoC Deployments



Infrastructure Monitoring



Day-0, Day-1 & Day-2 Support

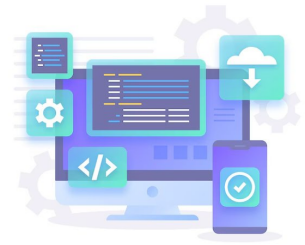
Solution Design & Architecting



At **VARIYAS LABS**, we specialize in **designing scalable, secure, and high-performance IT architectures** that align with your business goals. Our expert-driven approach ensures that your **infrastructure, applications, and integrations** are optimized for reliability, cost-efficiency, and future growth.

Solution Design Practices:

- Requirement Analysis – complete understanding **business needs, compliance, and scalability** requirements.
- Scalable Architecture Design – Building **modular, cloud-native, and hybrid architectures** for flexibility
- Right-Sizing & Cost Optimization – Appropriate **compute, storage, and networking** resources avoids overprovisioning.
- Cloud-Native & Hybrid Strategies – Optimize for multi-cloud, hybrid cloud, or on-prem environments based on business needs.
- Technology Stack Selection – Choosing the right **databases, frameworks, and cloud services** for performance.
- Automation & Infrastructure as Code (**IaC**) – For infrastructure consistency and repeatability.
- Observability & Monitoring – Use **APM, log aggregation, and real-time analytics** for proactive issue detection.
- Security & Compliance – Embedding security best practices into design for robust protection.
- High Availability & Disaster Recovery – Ensuring **resilient, fault-tolerant** architectures.
- Cost & Performance Optimization – Designing **cost-efficient** solutions without compromising quality.
- We follow industry-leading best practices to ensure our solutions are **scalable, secure, and optimized for performance**.



DevOps Consulting Services



Streamline your development process and operations with our expert DevOps consulting. We integrate continuous integration (CI) and continuous delivery (CD) pipelines, automating workflows for enhanced productivity.

Key Technologies we use:

- **Jenkins/ArgoCD/Tekton:** GitOps, native CI/CD framework, pipelines in DevOps
- **Docker/Podman:** Containerization platform to manage and scale applications.
- **Kubernetes/OpenShift:** Leading PaaS for automating containerized applications' deployment and management.
- **Git, Github & GitLab:** Version control and source code management with built-in CI/CD.
- **Ansible/Terraform:** configuration management and provisioning
- **ELK/EFK** for log management.
- **AWS/GCP/AZURE:** Cloud Ops on major public cloud

We ensure faster releases, greater collaboration, and minimized downtime.



Cloud Setup : Secure, Scalable & Future-Ready



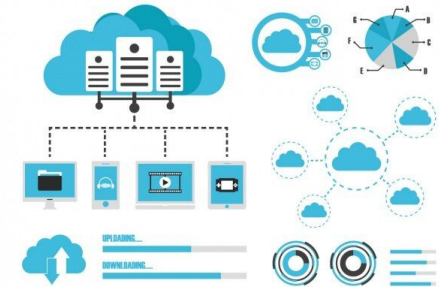
Empower your organization with a robust, scalable, and secure cloud infrastructure designed to meet your business needs. Our cloud solutions ensure high availability, flexibility, and complete data sovereignty, giving you full control over your IT environment.

Public Cloud Solutions

- Leverage the power of globally managed cloud platforms for seamless scalability and agility.
- Public Cloud Providers: AWS, GCP, Azure
 - ◆ Cloud migration & deployment strategies
 - ◆ Infrastructure automation & DevOps integration
 - ◆ Security, compliance, and governance implementation
 - ◆ AI/ML, Big Data, and analytics enablement

Private Cloud Solutions

- Build a secure, dedicated cloud environment with full control over infrastructure and data.
- Technologies: OpenStack (IaaS), OpenShift/Kubernetes (PaaS)
 - ◆ Private cloud setup and hybrid cloud integration
 - ◆ Kubernetes containerization & microservices architecture
 - ◆ Identity & access management (IAM) solutions
 - ◆ Performance monitoring, scaling, and cost optimization



Cloud Migration: Seamless, Secure & Future-Ready



Migrate your workloads to the cloud with minimal disruption, maximum security, and cost efficiency. Our structured approach ensures a smooth transition while enhancing performance, scalability, and resilience.

Strategic Cloud Migration Planning

A well-defined strategy to ensure a hassle-free migration aligned with your business objectives.

- ◆ Application & Infrastructure Assessment – Analyze existing workloads and dependencies.
- ◆ Tailored Cloud Architecture – Design an optimized migration framework.
- ◆ Risk Mitigation Strategies – Address security, compliance, and downtime risks.
- ◆ Cost Optimization Planning – Optimize CAPEX & OPEX for long-term efficiency.

Smart Migration & Execution

Migrate with confidence using cutting-edge tools and expert-driven strategies.

- ◆ Automated Assessment Tools – Identify application dependencies and feasibility.
- ◆ Seamless Data & Application Migration – Securely move workloads with minimal disruption.
- ◆ Database Migration & Modernization – Upgrade databases while ensuring integrity.
- ◆ Business Continuity & Post-Migration Optimization – Fine-tune performance and security.



Cloud Cost Optimization: Maximize Efficiency, Minimize Costs



Optimize cloud spending with advanced technical strategies to reduce waste, enhance efficiency, and maximize ROI.

CAPEX Optimization Services

1. Cloud Resource Right-Sizing – Analyze and optimize instance types, storage, and compute power.
2. Infrastructure as Code (IaC) – Automate deployments using Terraform, Ansible, or CloudFormation.
3. Hybrid & Multi-Cloud Architecture – Distribute workloads efficiently between public and private clouds.
4. Reserved & Spot Instances Strategy – Leverage AWS Savings Plans, Azure Reserved Instances, and GCP Committed Use Discounts.
5. Serverless Computing & Containerization – Reduce infrastructure costs using AWS Lambda, Azure Functions, Kubernetes, & OpenShift.
6. FinOps Implementation – Align cloud spending with business objectives using financial operations best practices.

OPEX Optimization Services

1. Auto-Scaling & Load Balancing – Dynamically adjust resources with AWS Auto Scaling, Azure Scale Sets, and GCP Autoscaler.
2. Cost Monitoring & Optimization Tools – Utilize AWS Cost Explorer, Azure Cost Management, and GCP Billing Reports.
3. Storage Tiering & Data Lifecycle Policies – Implement AWS S3 Lifecycle Policies, Azure Blob Storage Tiers, and GCP Nearline/Coldline.
4. Network & Egress Cost Reduction – Optimize CDN usage, VPC peering, and Direct Connect for lower data transfer costs.
5. Cloud Cost Governance & Budgeting – Set alerts and enforce spending limits via AWS Budgets, Azure Cost Alerts, and GCP Cost Control.
6. Security & Compliance Optimization – Reduce risk-based costs with automated security audits using AWS Security Hub, Azure Security Center, and GCP Security Command Center.

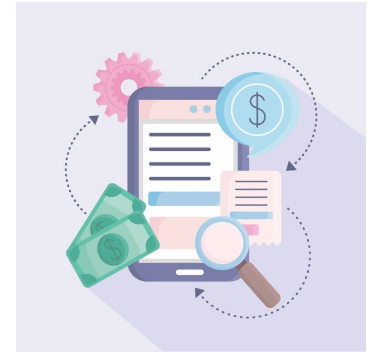
Proof of Concept (PoC) Deployment for New Technologies



Exploring emerging technologies requires a structured approach to validate feasibility, performance, and business impact before full-scale adoption. A Proof of Concept (PoC) deployment allows organizations to test new technologies in a controlled setup before full-scale adoption. It helps validate feasibility, performance, and integration with existing systems. PoC minimizes risks by identifying potential challenges early. Based on the results, businesses can make informed decisions on implementation.

Key Steps in PoC Deployment:

- Define clear objectives to assess feasibility and business impact.
- Limit scope to core functionalities for a focused evaluation.
- Deploy in a controlled environment to minimize risks.
- Test integration with existing infrastructure and workflows.
- Benchmark performance for speed, efficiency, and scalability.



Infrastructure Monitoring



We work on providing our customers with a 360 degree insight in your infrastructure and applications through the integration of a variety of solutions like:

Infrastructure monitoring

- Prometheus Grafana
- Nagios
- Custom Monitoring solutions as per your needs.

Centralized Logging

- Elasticsearch, FluentD/Logstash, Kibana (ELK/EFK)
- Graylog: centralize, secure, and monitor your log data efficiently
- Rsyslog: forwarding log, with powerful filtering capabilities

Observability

- Jaeger : Monitor and troubleshoot workflows in complex distributed systems
- Signoz: Native Logs, Metrics and Traces in a single pane



Software Design & Development



We specialize in building scalable, high-performance, and bespoke software applications that meet evolving business needs.

Front-End Development – Dynamic & User-Centric Interfaces

- ReactJS / Vue.js – Intuitive, component-based UI development
- HTML5 / CSS3 – Modern, responsive, and accessible designs
- Interactive UX/UI – Focused on performance, usability & aesthetics

Back-End Development – Robust & Scalable Architecture

- Node.js / Golang / Python / Java – High-performance backend systems
- Microservices & Serverless – Scalable & efficient application design
- Cloud-Native Development – Optimized for Kubernetes & OpenShift

Application Integration – Unified & Efficient Connectivity

- API-First Approach – Designing seamless & flexible integrations
- API Gateways – Managing and securing APIs for smooth communication
- Event-Driven Architecture – Using Apache Kafka for real-time processing

DevOps-Driven Software Development

- CI/CD Pipelines – Faster releases with Jenkins, ArgoCD, and Tekton
- Infrastructure as Code – Automated provisioning with Ansible & Terraform
- Cloud-Ready Deployment – AWS, GCP, Azure, and On-Prem solutions



Application Modernisation



At VARIYAS LABS, we help businesses modernize their legacy applications by adopting cloud-native architectures, microservices, and automation to improve scalability, security, and performance. Our approach ensures minimal disruption while maximizing efficiency and innovation.

Key Strategies for Application Modernization

- Cloud Migration & Replatforming – Move applications to **AWS, Azure, or GCP** with minimal refactoring.
- Microservices & Containerization – Break down monolithic applications into **scalable microservices** using **Docker, Podman & Kubernetes**.
- Serverless Computing – Reduce infrastructure management overhead with **Lambda, Azure Functions, or Google Cloud Functions**.
- DevOps & CI/CD Automation – Enable faster releases and **continuous integration/deployment** using **Jenkins, GitHub Actions, or ArgoCD**.
- API-First Approach – Expose functionalities via **RESTful APIs and GraphQL** for seamless integration.
- Database Modernization – Migrate from legacy databases to **cloud-native, distributed, or NoSQL databases** (e.g., **PostgreSQL, MongoDB, DynamoDB**).
- UI/UX Revamp – Upgrade front-end interfaces with modern frameworks like **React, Vue.js and Nextjs** for a better user experience.



Day-0, Day-1 & Day-2 Support



Day-0 Operations (Planning and Design)

Strategic groundwork is essential for a successful IT ecosystem. We focus on:

- **Requirements Gathering** – Understanding business needs, compliance, and scalability goals.
- **Architecture Design** – Crafting a resilient, high-performing, and future-ready architecture.
- **Capacity Planning** – Ensuring infrastructure aligns with workloads and growth projections.
- **Technology Selection** – Identifying the best tools and platforms for optimal efficiency

Day-1 Operations (Deployment & Configuration)

Seamless implementation with minimal disruption:

- **Provisioning & Configuration** – Setting up servers, networks, and cloud infrastructure.
- **Software Installation** – Deploying applications with best practices for security and efficiency.
- **Initial Testing & Validation** – Ensuring systems function as expected before going live.
- **Automation & CI/CD Integration** – Accelerating deployment with DevOps and automation frameworks.

Day-2 Operations (Ongoing Maintenance & Optimization)

Proactive management to ensure stability, security, and peak performance:

- **Continuous Monitoring** – Real-time observability for system health & incident detection.
- **Patching & Updates** – Keeping infrastructure secure with timely software updates.
- **Security & Compliance Management** – Implementing proper security controls & audits.
- **Performance Optimization** – Scaling and fine-tuning resources for maximum efficiency.
- **Incident Response & Troubleshooting** – Swift resolution of issues for minimum downtime.
- **High SLA Compliance**

Project Execution Model



Discovery & Planning Phase:

- Detailed assessment of client requirements, **technical environment**, and **business goals**.
- Discovery workshops to design HLD and LLD
- Develop Scope of Work (SoW) with milestones, timelines, and resource allocation.
- Address scope creep wrt to technical feasibility

Agile Delivery Framework:

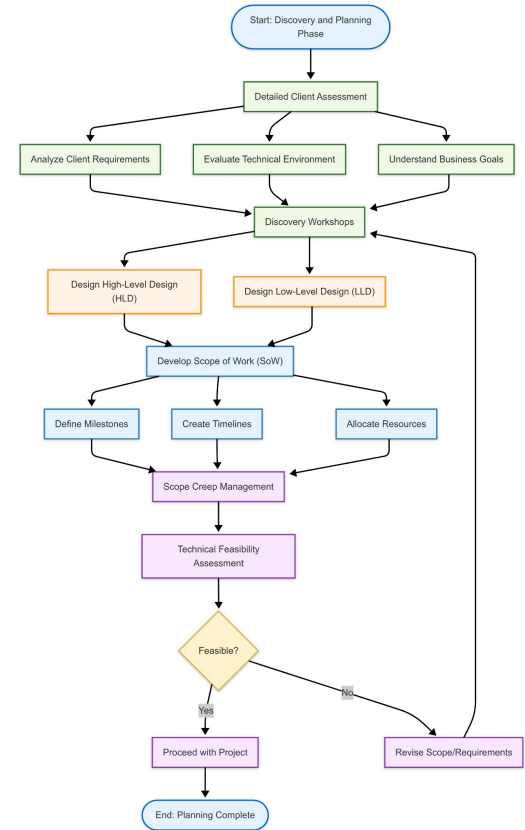
- Iterative development with continuous client feedback.
- Weekly/bi-weekly sprints for progress tracking and adaptability to changes.

Tools & Best Practices:

- CI/CD Pipelines: For faster deployment and reduced time-to-market.
- Automated Testing & Monitoring: Ensures quality and reliability throughout the lifecycle.

Post-Implementation Support:

- Comprehensive handover with documentation and training.
- Ongoing monitoring, support, and optimization.



How We Can Make It a Commercial Win-Win

Value-Driven Collaboration:

Leverage our open-source expertise to reduce costs while ensuring enterprise-grade solutions.

- Accelerated time-to-value through efficient execution and automation.

Cost Optimization:

- Prioritizing open-source solutions and automation to minimize licensing fees.
- Building Devops Strategies to reduce operational costs.
- Advisory on best practices to reduce operation costs.
- Flexible pricing tailored to your budget without compromising quality.

Building Long-Term Collaboration

- Act as a trusted technology partner, helping them expand their services portfolio while reducing operational costs.
- Regularly innovate and optimize solutions to adapt to evolving market demands, solidifying the relationship over time.



How can Variyas Labs scale when needed

Elastic Team Structure:

- Availability of professionals for ramping up/down based on project demands.
- Expertise in various domains including Devops, Frontend Development and Backend Development.

Planning & Forecasting

- For a project, HLD and LLD preparation would allow us to forecast the need of resources during the entire L/C of the project.
- Resources can be augmented as per the project needs.
- Bench can be maintained based on the forecasting of expected resourcing by Crayon.

Automation and Standardization

- Automate operational processes and tasks for project governance.
- Standardized processes to maintain consistency as we scale.
- Maintain SOPs for the day to day operations.

Cloud-Native Capabilities:

- Scalability of infrastructure leveraging cloud-native technologies like Kubernetes, microservices and others.



VARIYAS LABS

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