



CLOUD AND DEVOPS ENGINEERING

Agile, Fast and Secure Deployments for your
Digital Next Cloud and DevOps Engineering

Introduction



Cloud and DevOps are an integral part of the Innominds mindset on **transforming businesses**. By bringing business owners, developers and operations to the same page with advanced technology practices, we have successfully led our partners to faster Software Delivery and Operational Performance (SDO), stabler products, robust visualization and the highest quality deployments.

70% "Through 2023, 75% of organizations will customize agile practices to match product and team contexts, resulting in increased application delivery cadence."
– Gartner 2020



Our experience in running production workloads at scale to build a resilient, **rich-security solution** adds new value to your business. We will walk you through the beginning stages to the most optimized automations, dynamic infrastructure development, and life-cycle services, that meet the DevOps agile, lean and service-oriented approaches.

94% "Cloud data centres will process 94% of workloads in 2021."
- Cisco

Data suggests that the cost and maintenance implications of not adopting a Cloud and DevOps mindset could be huge in the near future. Which is why Innominds is keen on helping businesses **adopt proprietary solutions from diverse specialties**, with the best-of-breed practices and ideas from the Cloud/DevOps way of thinking.

Tools and Technologies

AWS, SoftLayer, Azure, IBM Bluemix, Google Cloud. Mesos, Kubernetes, Docker Swarm, AWS ECS, Docker Cloud, Docker Datacenter.

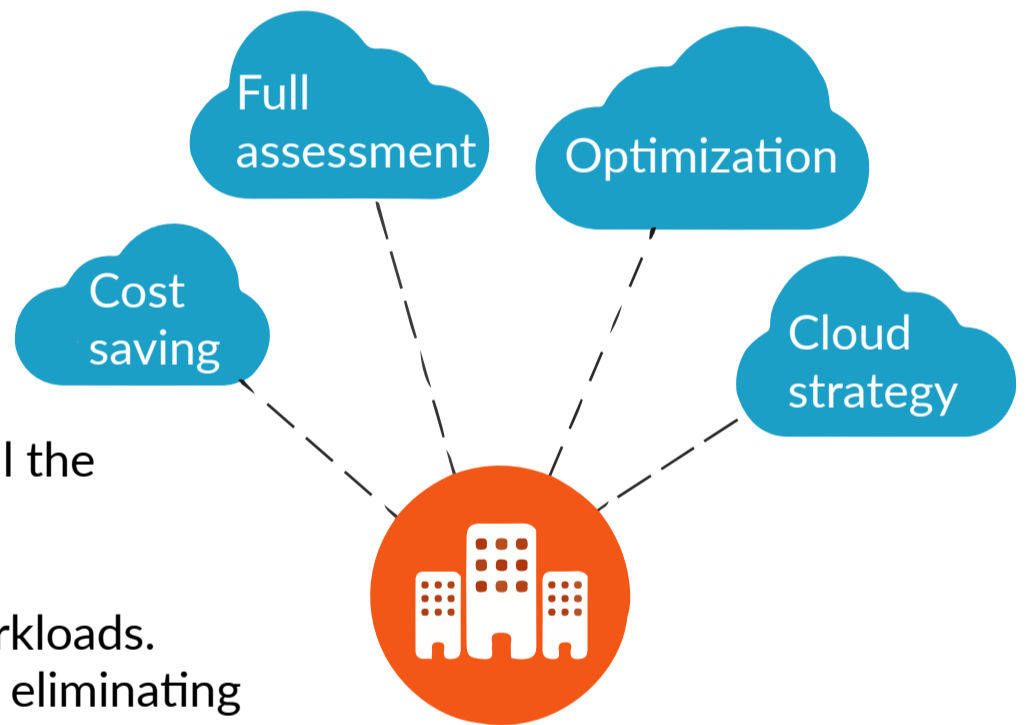
Our Offerings



Multi-cloud Adoption

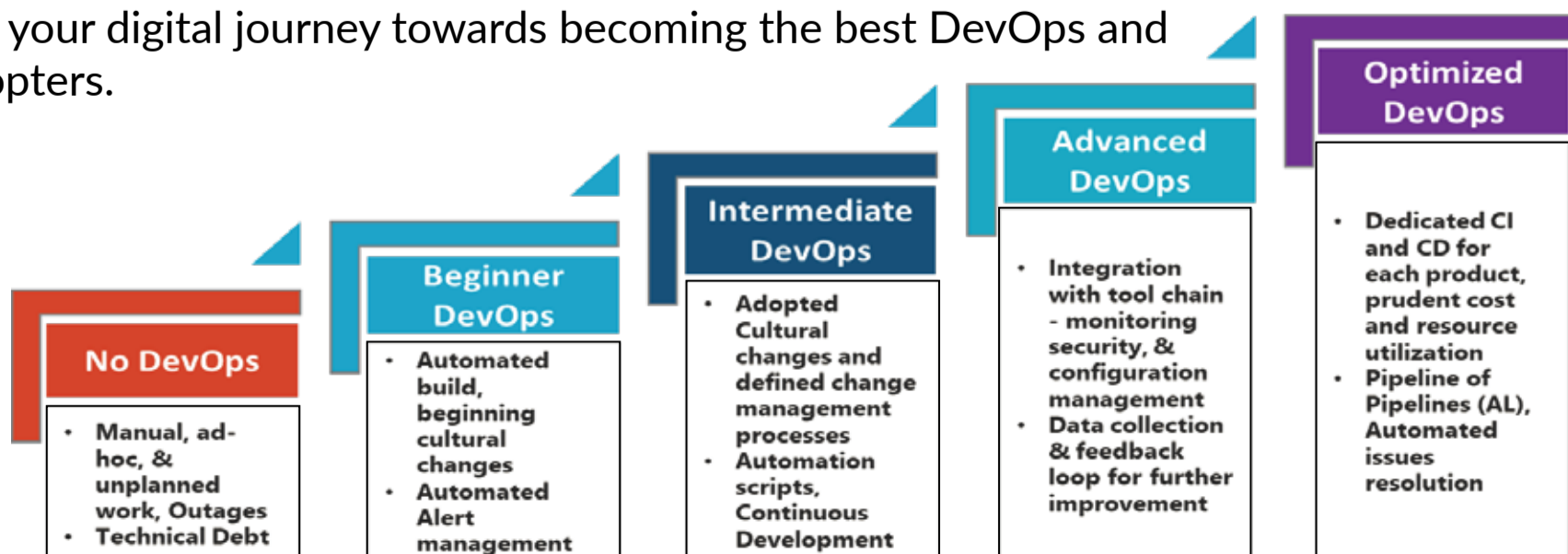
Multi-cloud adoptions have led to a double-edged secure and cost-saving model for companies with **hybrid and multi-cloud migrations**, instead of doing all the heavy-lifting with any single server base.

We offer you the best architecture based on your workloads. Migrating from public/private, changing vendors, and eliminating risks have never been easier. Starting from a full assessment, to committing to a cloud strategy and providing **24/7 monitoring**, we optimize your resources by right-sizing, autoscaling, automation, and much more.



DevOps Maturity Assessment Model

Step-up with our thorough and **fine-tuned Maturity Assessment Model** to find out how you can transform your digital journey towards becoming the best DevOps and Cloud adopters.





4-6 weeks of data **collection/inventory** gathering phase to assess the current state of DevOps maturity



Enablement and education of implementing complete lifecycle of DevOps in conjunction with **6 Cs of DevOps**



Assessment and recommendations for latest tools, technologies, and processes specific to **customers' environment**



Setup the necessary methodologies to **evaluate the ever-evolving technology** landscape in DevOps world



DevOps-as-a-Service

Our **Silver** ★ **Gold** ★ **Platinum** approach to DevOps and Cloud services, include the following benefits:

- 24*7 monitoring
- Version management and control
- Infrastructure-as-a-code
- Deployment and release orchestration
- Continuous Delivery and Continuous Integration
- Infrastructure security (audit and implementation)

Platform

Cloud Platform

Continuous Integration

Containerization

Orchestration

Monitoring, Logging, and Alerting

Collaboration

Configuration and Infrastructure Management

Service Tools

Amazon Web Services, Microsoft Azure, Google Cloud, Rackspace

Jenkins, Gitlab, Microsoft Visual Studio, Apache Maven

Docker, Amazon EC2

Kubernetes, Docker Swarm, AWS CloudFormation

AWS CloudWatch, ELK Stack, New Relic

Jira, Confluence, Slack

Ansible, Puppet, Chef, Terraform



Containerization and Kubernetes

We showcase the industry best practices in **containerization**, and **orchestration with Kubernetes**. With our specialization in various containerization options, you can deploy applications easily and consistently across all platforms and computer architectures. Equipped with the right tools, we orchestrate these containerized applications, so that you can leverage their management and **scalability** according to the operating needs.

Management:



Integrate external applications and systems through **CI/CD pipelines**



Enable **workflows and enforce policies** on container runtime



Orchestration, scheduling, **service discovery** and registration layer implementation



Automated **DNS update, IP updates**, health check and failover



Improved **governance and security**



Superior resource access and **utilization**



OPENSIFT



Amazon EKS



Google Kubernetes Engine



docker



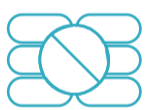
HELM



Prometheus



RANCHER



Serverless Computing

Computing becomes a cake-walk with **FaaS (Function-as-a-Service)** and **BaaS (Backend-as-a-Service)**. Eliminate infrastructure management, and focus on building and expanding with serverless computing capabilities from **Azure functions, AWS lambda, and Google Cloud functions**.



A dedicated team with the capabilities across all 3 major providers of **serverless computing**



Help customers **build and run applications** and services without worrying about server space



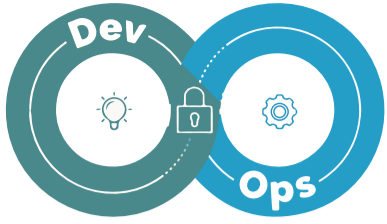
Enable customers in eliminating various **infrastructure management processes** like – patching, server provisioning, OS maintenance, capacity provisioning, etc.



Inculcate the culture of letting **developers focus on their core products**, instead of managing and operating the servers, runtimes, scalability, and availability challenges



Make **end-to-end development** experience highly efficient



Fool proofing the DevOps journey, we take application development and security hand-in-hand, with application security controls like **WAF**, **SOC/SIEM Integration**, and **continuous monitoring**.

SOC Monitoring Team



Focused Monitoring



Fraud Monitoring



Threat/Attack Analysis



Incident Response

Vulnerability Patch Management



Automated custom scripts for vulnerability scanning and applying patches/minor upgrades



AWS System and patch manager



Security information and event management as part of SOC



IPS/IDS/HIDS



DoS/DDoS



Firewall

DevSecOps takes care of **resident and external threats**, through regular testing and support. **Opt-in** for a core dedicated team, or a flexible on-demand team assistance for all your security needs. **Offshore/ Onsite engagement model** is available to work closely with application teams.



Benefits

Our **pragmatic technical architecture** promises to deliver products with a faster time to market, dynamic adoption to market changes, and reduced time and costs in the overall process.



Faster time to market



Better uptime



Speed of execution



Better resource utilization



Cost reduction



Efficient monitoring



Best practices to engagement



Automation



Low attrition



Leading technological skills

Case Study Reference

Client

A global technological company with ~2Billion in annual sales.

Client Need

Design and develop networked **visualization products** for entertainment, enterprise, and healthcare markets.

- **Competitive design** with carrier-class reliable architecture
- Set up **Continuous Integration and Continuous Delivery (CI/CD)** with automated configuration management
- Fully manage and monitor **24/7/365 cloud operations** without dedicated staff

Innominds Solution

Cloud Migration	Migrated the customer from on-site to cloud service using SaaS model <ul style="list-style-type: none">-Log Management-Blue-Green Deployment-Infrastructure Hardening
Microservices Migration	Implemented the optimal route for decomposing monolithic services to microservices
Containerization	Innominds provides expertise in dockerizing and moving away from expensive visualization components
Auto-Scaling	Automated scaling services based on traffic patterns
Orchestration	Kubernetes and appropriate orchestration tools usage

Result

Major increase in **team productivity**, **reduced costs with optimized server scalability**, and **troubleshooting infrastructure** round the clock.

About Innominds

Innominds is an AI-first platform-led digital transformation and full-cycle software product engineering services company headquartered in San Jose, CA. Innominds powers the digital next initiatives of global enterprises and software product companies with an integrated expertise in devices and embedded engineering, software apps and product engineering, cloud, analytics, DevOps, data, security and quality engineering.