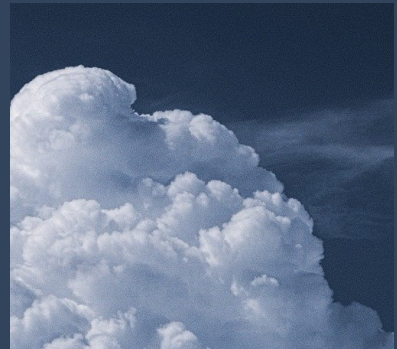# PETABLOC

Cloud & DevOps Solutions
by business minded experts.

Capabilities
How we can help your business

Leadership
Meet our technical team

sales@petabloc.com

petabloc.com

How can we help?

Tried and true creative solutions for all your cloud infrastructure needs.

Cloud Migration

End-to-end cloud migration services tailor-made for your business. From assessment to optimization, we're here for you at every step.

Why it helps

Moving applications from a data center into a cloud environment is hard. A "lift and shift" migration often results in minimal benefit and greater expense. A migration done well means significant cost savings, less work for your employees to manage and - most importantly - greater stability, availability and faster releases for new features to your users and clients.

How we do it

We can help you evaluate, inventory and strategize your requirements to make the switch to cloud. With years of experience and many successful migrations behind us, we know the challenges and roadblocks you will encounter throughout the entire migration life cycle.

What we use

Select cloud platforms: **Amazon AWS (AWS APN Select Tier Consulting Partner), Microsoft Azure, Google Cloud Platform.**

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CI/CD
Continuous Integration & Continuous Deployment

Deliver bug-free code to clients without downtime through a CI/CD pipeline designed specifically for your business needs.

Why it helps

Eliminate fear of releases and reduce your go-to-market time through a CI/CD pipeline. Continuous integration and deployment is key to delivering your code to your clients bug-free and without downtime. Remove repetitious and prohibitive processes from your development, product and operation groups.

How we do it

We will establish your business' prerequisites, define its processes, and identify the best tools for your individualized CI/CD pipeline. Our extensive experience with a large number of tool sets means we can ensure your code delivery is done in accordance with your business requirements, whatever they may be.

What we use

Select tools: **Jenkins, Spinnaker, CircleCi.**

Select prerequisites: **artifact repositories (Artifactory, Sonar, Sonatype Nexus, Yum, Docker Apt, PyPI, Maven, Npm), logging and auditing, security.**

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IAC *Infrastructure as Code*

Deliver bug-free code to clients without downtime through a CI/CD pipeline designed specifically for your business needs.

Why it helps

Your IT infrastructure should enable your business' innovation, not block it. IaC is the perfect alternative to inefficient traditional systems administration. Modernize your infrastructure stack and reap the rewards of more flexibility, less downtime, quicker releases, cost savings and maximized team integration.

How we do it

Let us identify, define and implement a custom IaC solution for your business that is testable, auditable and secure. By provisioning and automating your infrastructure for you, we ensure your teams can focus on software and development with the security of a solid technical foundation beneath them.

What we use

Select technologies include: **Cloudformation, Terraform, Ansible,** orchestrated platforms using **Kubernetes**, **Kafka**.

Select testing frameworks include: **Open Policy Agent, Chef Inspec, Terragrunt, Atlantis.**

Technical Leadership

Our bench is made of top engineering talent who consistently deliver cloud technology of the highest standards.

DAVID PETERKA
CO-FOUNDER & CTO

Creative, results driven technology leader with over 15 years of proven experience in high performance technical environments. David is an innovation leader and problem-solver with a passion for technology, skilled in grasping the big picture, and conceptualizing, developing and implementing solutions. Hands-on, technically savvy entrepreneur able to effectively partner with business leaders and produce useful and supportable solutions.

As a progressive technology leader, David has been involved in several major cloud-based initiatives in a range of industries including:

- Architect for Charter Communications' (Time Warner) first venture into AWS, including charter.net and various other web properties.
- Led Thomson Reuter's first foray into AWS and microservices architecture, which created the template for the entire enterprise's digital transformation.
- Held several hands-on technical executive roles in Operative Media, Kenzan and McKinsey.

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YINGBIN ZHANG
CHIEF TECHNICAL ARCHITECT

Yingbin is a seasoned cloud architect consistently producing creative, air-tight and secure architecture solutions for clients of all sizes, whether they be an enterprise or start-up.

His primary interests are monitoring, automation, troubleshooting, performance tuning and tools development, and he incorporates his experience in these areas into all his design and build processes.

Yingbin has extensive hands on experience with a range of technologies and tools, including: Linux/Unix/Windows admin, VMware/AWS, Oracle/MySQL, Chef/Puppet/Ansible/Terraform, Perl/Python/Shell, Zabbix/NewRelic/Grafana/SignalFX, and ELK – to name just a few.

Top 3 Technical Expertise: AWS, Terraform, scripting.

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JEFFREY YU
CHIEF PLATFORM ENGINEER

Jeff began his career in Quality Assurance, but quickly found his niche in platform engineering and cloud operations. He consistently exceeds client expectations with the precision and speed of his work, and his ability to understand and solve complex problems.

He is comfortable with all operating systems, and also has considerable experience with a range of tools including: Virtual Machines, Shell (Bash), Netflix OSS, Python/Ruby/HTML/PHP, Git, ElasticSearch, Graylog, Apache/Nginx, Splunk, Terraform, Vault, Nexus, Yum/Apt.

Jeff is particularly advanced with IaC solutions and dockerization, and maintains tabs on developments in the industry in order to stay on the cutting edge of DevOps tools and technologies.

Top 3 Technical Expertise: AWS, Terraform, Docker.

Technical Leadership

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JAMES PANCOAST
SENIOR TECHNICAL ARCHITECT

James Pancoast is a cloud expert with experience architecting, deploying, and maintaining large scale deployments on AWS and Azure following Immutable Infrastructure and Infrastructure as Code philosophies, with extensive experience interfacing with clients.

His career spans several industries including media and telecommunications, and he has close to a decade of experience working in a consulting capacity ensuring clients' technical and business needs are met to the highest standards.

Notable career accomplishments include acting as the Lead Architect for a distributed migration team tasked with moving applications into Azure for one of the largest cloud migrations in history for AT&T.

Top 3 Technical Expertise: AWS, Terraform, Kubernetes.

Technical Leadership

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VIKET TRIVEDI
SENIOR TECHNICAL ARCHITECT

Viket has over 18 years of experience designing and supporting large-scale infrastructure environments for application and web development for a range of industries, including media enterprises.

With expertise in both AWS and Microsoft Azure, Viket brings years of cloud and networking best practices to the clients he supports. Viket's keen interest in customer satisfaction ensures consistent attention to both technical and business deliverables.

Viket is particularly adept with Windows Administration, Microsoft O365 and Azure tenant management, and MDM.

Technical Expertise: Microsoft Azure, Windows Administration, MDM.

Technical Leadership

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ROHIT AGARWAL
SENIOR TECHNICAL ARCHITECT

Rohit's 15+ year career began in the gaming industry, and has since expanded to include enterprise financial, consumer goods and tourism verticals. His strong understanding of business contributes to a strong focus on client relationships and customer support.

Rohit specializes in CI/CD and IaaS automation, using tools such as CloudFormation, Terraform, Ansible, Jenkins, Python and Groovy to produce workflows which developers and operations can use to test, build, and deploy code and infrastructure.

He also has expertise in Test Automation using Jmeter and Selenium WebDriver and has been instrumental in implementing automation test frameworks for multiple clients in a range of industries.

Top 3 Technical Expertise: AWS, CI/CD, IaC.

Industry Spotlight: Healthcare

The Client

Reckitt Benckiser is one of the world's largest manufacturers of consumer healthcare goods.

The Project

Built out RB's Enterprise Data Analytics Platform (EDAP) data lake infrastructure in Azure, including CI/CD configuration and Disaster Recovery protocol. The data lake was available for consumption by major pharmaceutical company data engineers to evaluate the effectiveness of medication.

The Tech Stack

Microsoft Azure (micro-services included: Azure DevOps, Azure Synapse Warehouse, Azure Data Bricks, Azure Analytics Services); **Terraform**; **Talend**.

The Client

IDEXX Laboratories engages in the development, manufacture, and distribution of products and services for the animal veterinary, livestock and poultry dairy and water testing markets.

The Project

Labs Data Exchange (LDE) big data re-platform to improve Labs Information Management System (LIMS) results data feed rates, leveraging the AWS stack. High throughput, high transaction: estimated 1 million results per day.

The Tech Stack

AWS (micro-services included: API Gateway, CloudWatch, DynamoDB, EMR, Glue, SQS, S3).

Industry Spotlight: Healthcare

The Client

Sirona Medical is a stealth startup solving radiology and medical imaging problems with machine learning.

The Project

Built out Sirona's IaC with Terraform to define HIPPAA, SOC 2 compliant AWS Organizations and infrastructure. Enabled the system to Ingest millions of files into a deep learning framework. Established consistent CI/CD deployments using CircleCI for application layer and Jenkins for machine learning.

The Tech Stack

React, **AWS**, **CircleCi**, **Github**, **Django**, **Pytorch** (and many other AI/ML/NLP frameworks), **ObjectiveFS**, **Terraform**.

The Client

Second Wave Delivery Systems aligns clinical coding and clinical documentation integrity (CDI) to deliver accurate risk capture and improve HEDIS adherence to organizations.

The Project

Established a HITRUST operating environment for back office and client facing systems, including EMR systems. Maintained all IT-related compliance as it relates to HIPAA and HITRUST requirements. Migrated infrastructure away from ClickOps to IaC.

The Tech Stack

Azure Active Directory, **O365**, **Terraform**.

Combined **35 years** of consulting expertise.

Trusted with

aws · Google Cloud · Azure · aws partner network Select Consulting Partner · Terraform · circleci · GitLab

Trusted by

LendingClub · Acryl Data · OKLAHOMA State Election Board · Lawline · SIRONA · thirdwave RX · CorHealth Ontario · incite ANALYTICS THAT MOVE YOU