



PYTHIAN MANAGED KUBERNETES AS A SERVICE

SEAMLESSLY MANAGE AND SCALE YOUR KUBERNETES INFRASTRUCTURE

HIGHLIGHTS

- Runs high availability operations 24/7 for Kubernetes deployments, optimized at scale and creates advanced platform automation of workloads
- Simplifies the management of various application infrastructure components such as; hardware, APIs, secrets, networking, disk/storage, and internet access
- Provides new operations and lifecycle management approaches for containers that are very different from VM management
- Provides a framework to run and manage containers by themselves, in clusters, or in meshed groups.
- Integrates with a wide variety of external services to provide a full operational environment to support SRE and DevOps best practices.

Pythian Kubernetes solutions are for any enterprise with significant investment in container workloads or a commitment to move to container workloads. Kubernetes addresses large scale and complex container management environments, increases development productivity, and also the speed of software releases. Organizations are generally utilizing containers but not taking full advantage of full lifecycle orchestration which Kubernetes offers. Kubernetes enables applications to run different workloads in public cloud, multi-cloud, and on premise environments with seamless migration to cloud, at scale. As organizations move more workloads to containers, the need for Kubernetes increases dramatically.

ABOUT PYTHIAN KUBERNETES SOLUTIONS

WHAT IS KUBERNETES?

Kubernetes is a container software management platform that resembles the internal application management system that Google uses for all their projects and services. It is open source and available as a Managed Service on GCP, Azure, and AWS. At its heart, Kubernetes works with containers and is often described as a container orchestration system.

SECURITY

Containerized workloads have complex and overlapping security models that each need to be addressed and proactively maintained. At Pythian, our teams have been growing with the technology and are ready to handle layered security; container security scanning, network security, container and service isolation, and platform security via RBAC and proactive patching and maintenance. Our reference architecture and production change control deliver end-to-end security of the Kubernetes build/test chain along with image management.

WHAT DO PYTHIAN KUBERNETES SOLUTIONS DO?

Kubernetes Solutions are software and services that provide orchestration of multiple containers into groups to simplify managing them as a single logical entity for a single application. Kubernetes provides a means to define the deployment of containers, as well as a means for their ongoing management. This simplifies production management of application;

- Availability, performance, and scaling
- Networking
- Application monitoring and logging
- Services management

- Production patches/updates to the containers.
- Rules and policies for host placement, provisioning, configuration
- Workload scheduling
- Secret management and security scanning
- Application lifecycle management
- Simplifies blue/green and canary deployments

WHAT ARE THE KUBERNETES SOLUTION COMPONENTS?

- 24/7, Kubernetes operations service
 - Management of Kubernetes platform
 - Health and performance optimization
 - Break/fix of Kubernetes environment
 - Kubernetes upgrades (non-disruptive)
 - Monitoring and alerting
- Kubernetes cloud services (GCP, MS Azure, AWS) or on-premise
- Utilizing OpenService Broker API, Custom Resource Definitions, and virtual kubelets to interact with services outside the Kubernetes cluster.
- Kubernetes solution consulting and software
 - Advisory for selection of the right Kubernetes technology to utilize
 - Create Kubernetes/container architecture optimized to your applications and development environment
 - Define and implement Kubernetes operational best practices for; networking, pods and services definition, monitoring, failover, CI/CD, and more.

PYTHIAN KUBERNETES SOLUTIONS VALUE BY AUDIENCE:

Application Development leaders:

- To optimize the deployment and management of container based workloads
- Accelerate the use of containers across the organization
- Increase the security and governance surrounding container based workloads
- Increase the speed of deployment for container based workloads

Operation leaders:

- To optimize productivity for the deployment and management of container based workloads
- To improve the availability, performance and scalability of container based workloads in the cloud
- To increase the quality and success of container based workload deployments



[linkedin.com/company/pythian](https://www.linkedin.com/company/pythian)



twitter.com/Pythian

Contact us at +1-866-798-4426 or info@pythian.com

ABOUT PYTHIAN

Pythian is a global IT services company that specializes in designing, implementing, and managing systems that directly contribute to revenue and business success. We help companies adopt disruptive technologies to advance innovation and increase agility. Our highly skilled technical teams work as an integrated extension of our clients' organizations to deliver continuous transformation and uninterrupted operational excellence using our expertise in cloud, DevOps, big data infrastructure, advanced analytics, infrastructure management, and databases.

OFFICES

Ottawa, Canada

New York City, USA

San Francisco, USA

London, England

Sydney, Australia

Hyderabad, India

V01-082018-NA

www.pythian.com

Pythian
love your data®