

# INNOVATE FASTER USING NO-CODE ACCELERATION WITH HPE EZMERAL RUNTIME AND GOPADDLE

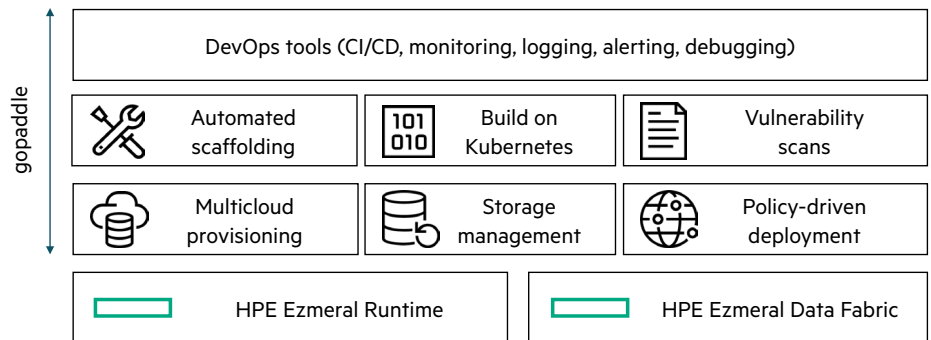
Adopt modern business requirements faster with more agility

The cloud-native transformation has taken the industry to a new norm. Consequently, the expectation that developers have to keep up with the industry norms has skyrocketed as well. Developers are now responsible for transforming their applications to microservices, deploying to production, and ensuring that their applications are highly available. This requires developers to learn new technology stack and dedicate time to perform tedious day-2 maintenance. This slows down the release velocity and impedes innovation.

gopaddle, is a no-code platform that helps to collaboratively build and manage cloud-native applications without having to write Docker or Kubernetes artifacts. It provides the necessary guard rails to build cloud-native applications the right way. With gopaddle, teams can leverage their existing skills to provision and manage Kubernetes clusters across hybrid environments and build, deploy and maintain cloud-native applications with ease.

HPE Ezmeral Runtime is an enterprise-grade container orchestration platform that is designed for the containerization of both cloud-native and non-cloud-native monolithic applications with persistent data. It deploys 100% open-source Kubernetes for orchestration, provides a state-of-the-art file system and data fabric for persistent container storage, and offers enterprises the ability to deploy non-cloud-native artificial intelligence (AI) and analytics workloads in containers. Enterprises can now easily extend the agility and efficiency benefits of containers to more of their enterprise applications—running on either bare-metal or virtualized infrastructure, on-premises, in multiple clouds, or at the edge.

The combination of gopaddle and HPE Ezmeral Runtime enables enterprises to speed up their modernization journey enabling developers to deliver innovations faster and easier.



**FIGURE 1.** HPE Ezmeral and gopaddle solution

## KEY CAPABILITIES OF GOPADDLE

- **No-code transformation:** Intelligent scaffolding and source-to-image conversion helps eliminate the need for writing and maintaining Docker/Kubernetes artifacts, thereby accelerating the transformation process.
- **Kubernetes artifact versioning:** Granular versioning of Kubernetes artifacts helps in the separation of accountability across DevOps teams. Auditing of changes in the system prevents unnoticed changes from getting released.
- **Role-based access controls:** Better team coordination and governance by defining different roles and access policies across the team.
- **Readily available application templates:** Leverage prebuilt application catalog or build custom application templates that can be deployed across any Kubernetes environments without much reconfiguration.
- **Simplified day-2 operations:** Out-of-the-box DevOps tooling for managing network (Ingress, SSL, firewall, and load balancers), storage, monitoring, alerting, and logging for easy maintenance.
- **Unified dashboard:** Manage end-to-end DevOps through one single dashboard. From building containers to provisioning and monitoring, the workloads can be managed from a unified control plane.
- **Release and distribution management:** Manage multiple parallel releases and distributions across projects.

- **Vulnerability scans:** Shift left the security validation to prevent security leaks later in the release cycle.
- **Multicloud Kubernetes provisioning:** Provision and manage Kubernetes clusters across AWS, Google™, and Azure or register a pre-existing cluster or bring your own terraform templates to dynamically provision clusters—all from a single control plane.

## KEY CAPABILITIES OF HPE EZMERAL RUNTIME

- **On-premises and/or on the public cloud:** Can be deployed on-premises, in the public cloud, or in a hybrid environment that includes both public cloud and on-premises resources.
- **Multicloud Kubernetes management:** Fast, easy deployment, management, and monitoring of Kubernetes clusters (including AKS, EKS, and GKE™ clusters) for single-pane-of-glass management and visibility across environments.
- **Enterprise-grade security:** Built-in security controls to integrate with identity providers such as Active Directory/Lightweight Directory Access Protocol (LDAP); single sign-on, Security Assertion Markup Language (SAML) integration; role-based access controls for secure access to the platform; container runtime security for proactive threat detection and alerting.
- **Turnkey solution:** Easily containerize cloud-native and non-cloud-native apps; KubeDirector—an open-source custom Kubernetes controller—allows you to deploy non-cloud-native apps without rearchitecting or refactoring.
- **1-click provisioning:** App store of curated, prebuilt, ready-to-run solutions for a wide range of applications including Big Data, AI/machine learning (AI/ML), DataOps, analytics, continuous integration/continuous deployment (CI/CD), DevOps apps, and services, with the ability to BYO application via KubeDirector and App Workbench. App Workbench offers an intuitive interactive GUI experience versus a command-line heavy method of

application image creation for use with the HPE Ezmeral Runtime.

## WHY GOPADDLE ON HPE EZMERAL?

gopaddle on HPE Ezmeral Runtime helps you address the digital transformation of on-premises service provisioning. The combined solution allows developers to build container applications with simplicity, scale, and security. Developers can help optimize their time by focusing on coding and workflow than developer tool integration and maintenance. gopaddle on HPE Ezmeral Runtime offers tools and features that reduce the barriers to creating and maintaining AI/ML and analytics applications while also easing their day-2 operation and maintenance.

- **Accelerate modernization:** Transform legacy application to cloud-native Kubernetes project in minutes. Leverage your team's current capabilities to accelerate modernization, with practically no upskilling requirement.
- **Standardize application lifecycle management:** Standardize the environments across the application lifecycle by using shared environments across building, testing, and deploying applications. Standardize the software releases with the help of build-once-deploy-anywhere application templates.
- **Increase productivity:** Leverage out-of-the-box DevOps capabilities such as logging, monitoring, alerting, and CI/CD to simplify application maintenance, automate end-to-end software release pipelines, and increase the release velocity.
- **Increase operational efficiency:** Provision and manage Kubernetes environments across public clouds, on-premises, and edge locations. Mitigate cluster sprawl by centrally managing the environments from a single dashboard.

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