OneClick - An AWS EKS Blueprint Solution

The modern operations platform

Container technology has revolutionized application development, bringing unimagined flexibility and efficiency to the development process. Also, Kubernetes has become the de-facto standard for orchestrating containerized applications in a consistent, highly available and scalable manner.

According to IDC, organizations will build 500 million new apps in the next few years, more than the number developed in the previous 40 years combined. To run and manage business applications at this velocity and scale, organizations need a modern platform that allows multiple teams to run applications on a shared infrastructure that is managed, secured, and governed in a unified manner.

Challenges faced by enterprises in building a modern ops platform

1

Tools integrations

Large ecosystem of open source, ISV tools and cloud services increase the complexity to onboard the right set of services and integrations with the platform

2

Upgrades and maintenance

Continuous need to maintain, upgrade and add new service templates into quick-start catalogue for development teams

3

Performance, security and scale

Complexity to implement a robust mechanism for harmonious co-existence of applications, security policies, quotas, and best practices along with seamless scalability for the success of the platform

Introducing **OneClick** – an AWS EKS blueprints solution

OneClick by HCL Technologies is a self-service platform for application teams to spin-up composable Kubernetes environments and associated cloud services in a secure, standardized, and reliable manner.

The OneClick platform is designed on the foundation of four core pillars, as below:

One Repository

It provides a central private repository of all CloudFormation templates, terraform scripts, Helm charts ensuring single source of truth for the entire platform.

Industry standards and best practices

Built on the foundation of AWS best practices, which includes AWS EKS blueprints and CISA Kubernetes hardening guidelines.

One Automation

OneClick platform infra-as-a-code approach leveraging terraform automation templates to build and manage the entire platform, including additional cloud resources like managed databases (Amazon RDS).
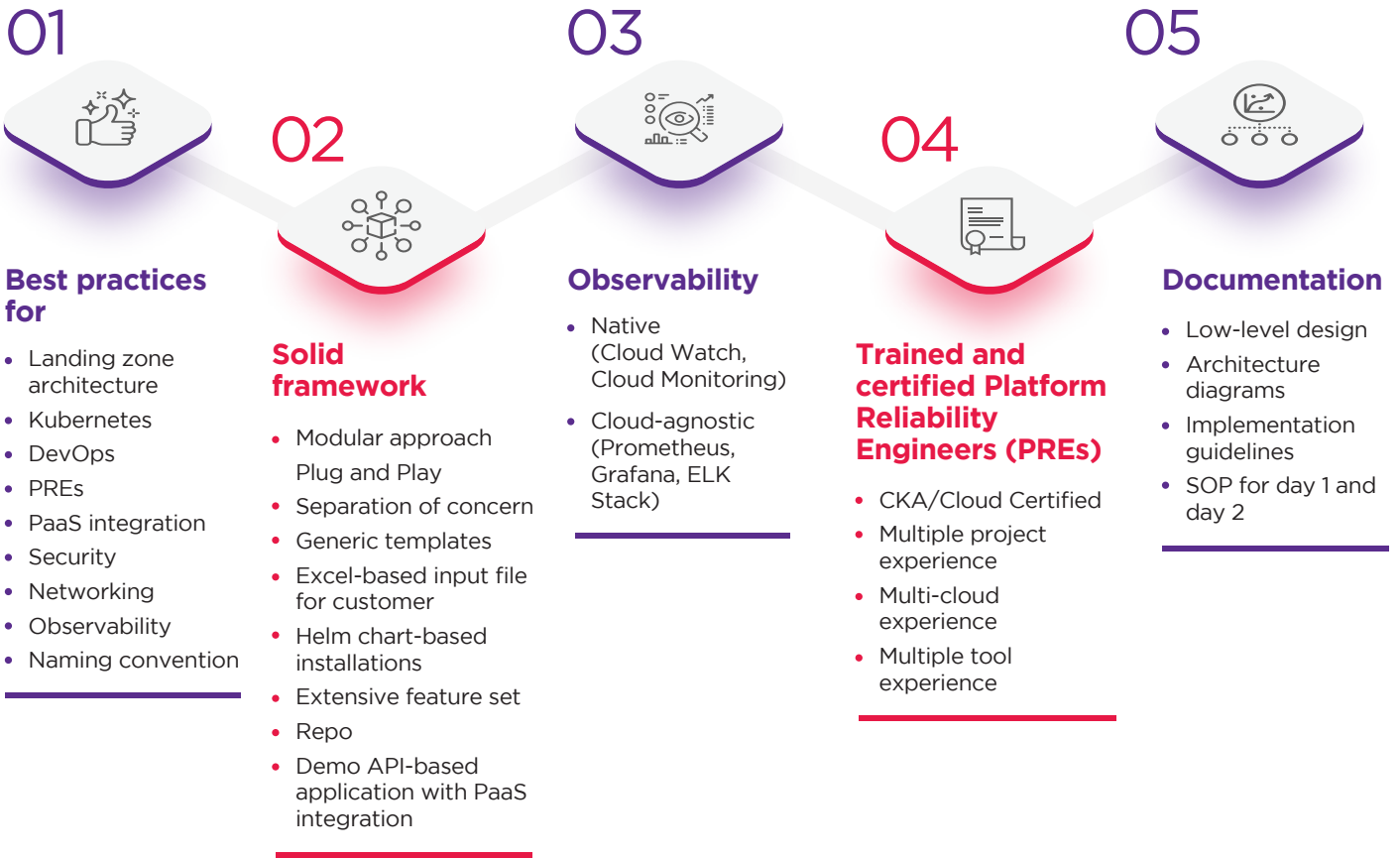
One DevOps tool

A single DevOps tool is configured for multi-cloud Kubernetes deployments, cluster resources like ingress, observability dashboards, secrets manager, container registry and more.
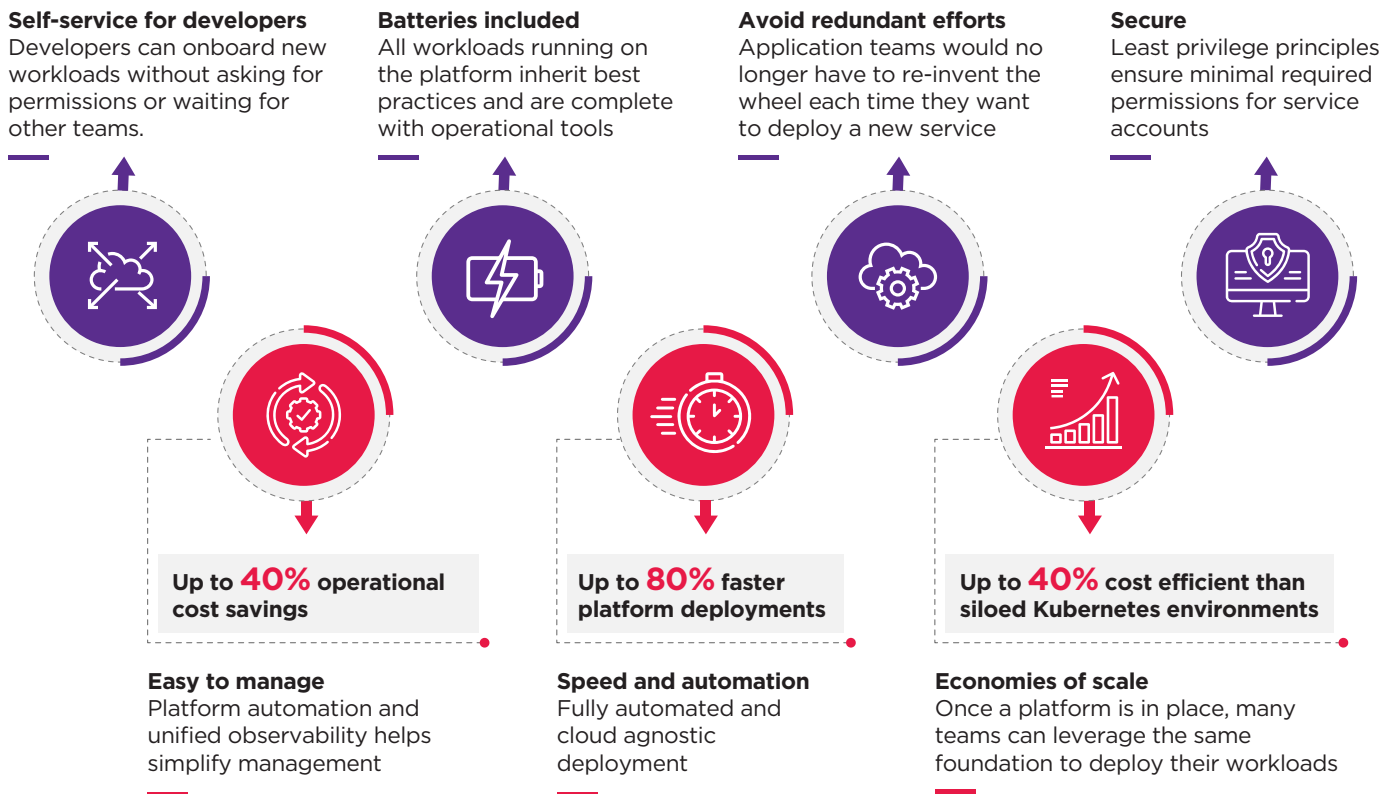
Features

01
Best practices for

- Landing zone architecture
- Kubernetes
- DevOps
- PREs
- PaaS integration
- Security
- Networking
- Observability
- Naming convention

02
Solid framework

- Modular approach Plug and Play
- Separation of concern
- Generic templates
- Excel-based input file for customer
- Helm chart-based installations
- Extensive feature set
- Repo
- Demo API-based application with PaaS integration

03
Observability

- Native (Cloud Watch, Cloud Monitoring)
- Cloud-agnostic (Prometheus, Grafana, ELK Stack)

04
Trained and certified Platform Reliability Engineers (PREs)

- CKA/Cloud Certified
- Multiple project experience
- Multi-cloud experience
- Multiple tool experience

05
Documentation

- Low-level design
- Architecture diagrams
- Implementation guidelines
- SOP for day 1 and day 2

Benefits

Self-service for developers
Developers can onboard new workloads without asking for permissions or waiting for other teams.

Batteries included
All workloads running on the platform inherit best practices and are complete with operational tools

Avoid redundant efforts
Application teams would no longer have to re-invent the wheel each time they want to deploy a new service

Secure
Least privilege principles ensure minimal required permissions for service accounts

Up to **40%** operational cost savings

Up to **80%** faster platform deployments

Up to **40%** cost efficient than siloed Kubernetes environments

Easy to manage
Platform automation and unified observability helps simplify management

Speed and automation
Fully automated and cloud agnostic deployment

Economies of scale
Once a platform is in place, many teams can leverage the same foundation to deploy their workloads

HCL-AWS Partnership

1. AWS Premier consulting partner

2. AWS Managed Service Provider (MSP) Partner

3. AWS Channel Partner with Migration, DevOps, SAP, Storage, & Mainframe Migration competencies

4. Launch Partner for Amazon EKS-Anywhere and ECS-Anywhere

5. One of industry's largest pool of trained / certified AWS professionals

6. Leader in the recent ISG Provider Lens™ AWS Ecosystem Partners Quadrant Report 2021

Leader in the Gartner PCITTS & DCO/ HIMS Magic Quadrants

Leaders in all major analyst reports for cloud

Kubernetes Certified Service Provider (KCSP)

For more information, please email us at **contact.hyc@hcl.com**

HCL

HCL Technologies (HCL) empowers global enterprises with technology for the next decade today. HCL's Mode 1-2-3 strategy, through its deep-domain industry expertise, customer-centricity and entrepreneurial culture of ideapreneurship™ enables businesses to transform into next-gen enterprises.

HCL offers its services and products through three lines of business - IT and Business Services (ITBS), Engineering and R&D Services (ERS), and Products & Platforms (P&P). ITBS enables global enterprises to transform their businesses through offerings in areas of Applications, Infrastructure, Digital Process Operations, and next generation digital transformation solutions. ERS offers engineering services and solutions in all aspects of product development and platform engineering while under P&P. HCL provides modernized software products to global clients for their technology and industry specific requirements. Through its cutting-edge co-innovation labs, global delivery capabilities, and broad global network, HCL delivers holistic services in various industry verticals, categorized under Financial Services, Manufacturing, Technology & Services, Telecom & Media, Retail & CPG, Life Sciences, and Healthcare and Public Services.
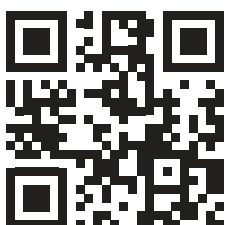
As a leading global technology company, HCL takes pride in its diversity, social responsibility, sustainability, and education initiatives. As of 12 months ending on March 31, 2022, HCL has a consolidated revenue of US $11.48 billion and its 209,000 ideapreneurs operate out of 52 countries. For more information, visit www.hcltech.com

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