



Deploy applications on Kubernetes with confidence

CAEPE™ is a robust CD platform built for Kubernetes. CAEPE allows teams to deploy applications run on Kubernetes confidently across distributions, platforms, and environments; automating deployment, addressing enterprise needs, and providing universal access.

Continuous Deployment for Kubernetes is a challenge for teams. Skill gaps, existing tool limitations and enterprise needs have resulted in time and effort being focused on customization and manual tasks instead of value creation.

CAEPE focuses on standardization and automation so that teams regardless of skill levels can deploy their applications on Kubernetes with consistency and quality in line with their organizational demands.

CAEPE is an enterprise tool that abstracts organizations from managing the natural chaos and change associated with the dynamic Kubernetes tooling ecosystem.



Progressive
Delivery



Enterprise
Support



Scalable
Deployments



Multi-cloud,
Air-gapped,
Edge

Get started with CAEPE.

Explore demo videos, test drives, and additional resources at caepe.sh/start-here.

Deployment



Standard Deployment	Deploy applications and services through rolling deployment methodology
✦ A/B Deployment	Build an A/B deployment for applications and services
Blue/Green Deployment	Build a Blue/Green deployment for applications and services
✦ Canary Deployment	Build a Canary deployment for applications and services
✦ Recreate/Highlander Deployment	Build a Recreate/Highlander deployment for applications and services
Deployment Details	View deployment details including clusters deployed, deployment method, history, namespaces, time and size of deployment and differences between described deployment and actual deployment
✦ Deployment Queues	Manage deployment queue to ensure application and services deployed in order required
✦ Deployment Priority	Set deployment priority so that urgent deployments & updates get prioritized over other deployments
✦ Deployment Schedules	Set schedules for maintenance windows on clusters restricting when apps can be deployed, upgraded or removed
✦ Pre-flight Tests	Execute Pre-flight tests to ensure application has all it requires to go live and that the chosen cluster meets the requirements
✦ Dry Runs	Execute deployment Dry Runs to see what will be actioned on cluster and identify any potential conflicts or issues before actual deployment
✦ Latest Changes	Scan for latest changes in a deployment to see how it differs from previous deployment manifests
Deployment Arguments	Pass arguments to deployment manifests to meet requirement of individual or group of clusters
✦ Estimate Time & Size	Estimate time and size of a deployment to understand how long a maintenance window may need to be set for
✦ Deployment Time & Size	View actual time and size for each deployment
Post Deployment Action	Execute a script or webhook after a deployment has been executed or an update has occurred

Smoke Testing



✦ CAEPE Smoke Test	Quickly deploy a snapshot of a production app or latest version of the app to an upgraded cluster or new cluster type to ensure compatibility via smoke, performance, pen or chaos tests
✦ Dedicated Smoke Test Clusters	Identify specific clusters as Smoke Test clusters so that they can only be used for restoring snapshots on to
✦ Live Cluster Snapshot	Take a live snapshot of an application on cluster including Persistent Volume (PV) data to be restored on any other cluster
✦ Snapshot Restore	Restore snapshots of applications and data to same or new cluster
Quick App Deploy	One shot application deploy for use on a smoke test cluster
✦ Test Automation	Execute smoke, performance, pen or chaos tests after a quick app deploy or restore of a snapshot of a live application and its data
✦ Post Test Application Management	Remove app or cluster post test execution to avoid excess infra costs or potential data leakage

Edge/Airgapped



Auto Cluster Build	Automatically build clusters for Edge/Airgapped as needed using SSH, Cloud Formation, Azure Cloud Resource, GCP Cloud Deployment, Ansible and Terraform
Cluster Tear Down	Tear down of clusters built via auto cluster build to avoid excess running costs
✦ Cluster Environment Type	Identify Edge or Airgapped clusters so that they can be managed with a method that suits their environment
✦ Deployment Queues	Manage deployment queue to ensure applications and services deployed in order required or when connectivity is available
✦ Deployment Priority	Set deployment priority so that urgent deployments & updates get prioritized over other deployments when edge or airgapped maintenance windows become available
✦ Private Repo/Registry Management	Deploy a private repo or registry as part of the CAEPE self-hosted package for use in airgapped or edge situations
✦ Estimate Time & Size	Estimate time and size of a deployment to understand how long a maintenance or connection window may need to be set for
✦ Offline Subscription Management	Flexibility to add and remove clusters to subscription with out being connected to CAEPE portal

Clusters



Cluster Support	Managed K8s clusters, virtualized clusters, bare metal clusters, cloud-based clusters, on-prem clusters, edge clusters and airgapped clusters
Cluster Connection	Connect to running clusters via native K8s methods supporting both push and pull methods to meet security needs
Auto Cluster Build	Automatically build clusters as needed for deployments using SSH, Cloud Formation, Azure Cloud Resource, GCP Cloud Deployment, Ansible and Terraform
✦ Cluster Tear Down	Tear down of clusters built via auto cluster build to avoid excess running costs
Cluster Status	Health and connection status of all clusters connected to CAEPE
Cluster Details	Cluster type, applications deployed and namespaces
✦ Cluster Groups	Group clusters together for single deployments to multiple clusters
✦ Cluster Classification	Classify clusters by environment and infrastructure type
✦ Cluster Schedules	Set schedules for maintenance windows on clusters - restricting when apps can be deployed, upgraded or removed

Applications



Application Support	Support for all container-based applications on Kubernetes
Application Defaults	Set defaults for applications that can be used by deployments or customized for new deployments
✦ Application Groups	Group applications together for single deployment of multiple applications
Application Details	View application details including versioning, deployment type & path, namespace and clusters application is deployed to

Subscription, Management & Support



SAAS	CAEPE App deployed, managed and maintained as SAAS app
✦ Self Hosted	CAEPE App deployed, managed and maintained on customer's own infrastructure
✦ Management Portal	CAEPE users, subscriptions, app packages & SAAS managed through central portal
Direct Subscription	CAEPE subscription paid direct via credit card
✦ Azure Subscription	CAEPE subscription paid via user's Azure subscription
✦ Subscription	Licensed by number of clusters connected, full functionality with unlimited users
Enterprise Access Control	Enterprise user management offering a high degree of control over user access, resources and artefacts
Authorization & Authentication	OAuth for authentication & authorization of users for app, CLI and API along with integration to directory services
Audit Management	Who, What, Where and When audit trail with system logging and diagnostics
✦ Health Log & Monitoring	Pre-packaged Grafana & Prometheus for health monitoring of self-hosted CAEPE deployments
CLI	CAEPE's own CLI for automation and scripting
API First	CAEPE is API First giving potential for integration at every level
✦ Enterprise Support	Enterprise level support for all users
Credential Management	Store, manage and secure credentials used for connection to repos, registries, clusters, SSH or cloud providers via inbuilt vaults
Dashboard	View all details of clusters, applications and deployments via a single dashboard
✦ Schedules	Set schedules for restricting deployments to maintenance windows or schedule deployments for specific times
✦ Generate CLI	Generate required CLI for scripting directly from CAEPE UI
✦ Approvals	Approval workflows to manage how clusters, applications, deployments and other resources are created, updated or removed by users

✦ *Unique CAEPE features*