

Building for Substrate

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Substrate is optimized to run containerized workloads and services, using Kubernetes hosted on AWS (Amazon EKS). To successfully build your workloads, deploy and operate them on Substrate, you will need familiarity with the following topics:

- [Containers](#)
- [Kubernetes](#), [Helm](#) and [Amazon EKS](#)
- Secrets Management using [HashiCorp Vault](#)
- [Infrastructure as Code](#)
- [Amazon VPC](#) and [Application Load Balancer](#)

- [CI/CD](#)
 - [CI/CD Guidance](#)
 - [Accessing GitHub in Substrate](#)
 - [Using GitHub Actions with Substrate](#)
 - [Deploying to Substrate using Codefresh](#)
 - [GitHub Actions User Guide](#)
- [Container images](#)
 - [Guide to Building Docker Images](#)
- [Kubernetes](#)
 - [Accessing AWS Resources from Kubernetes](#)
 - [How To Determine What Limits Exists for Containers Running in Clusters](#)
 - [Kubernetes Resources Request and Limits](#)

- [How To Enable GPU Access for EKS Cluster](#)
 - [Backup and Restore Kubernetes Resources with Velero](#)
- [Managing Resources Using Terraform](#)
 - [Using Terraform With Substrate](#)
 - [IxM Terraform Guide](#)
- [Using Helm for Substrate applications](#)
- [Using epic-app with Substrate](#)
 - [Upgrading epic-app to a new version](#)
 - [Using Umbrella Charts with epic-app](#)
- [Using secrets from Substrate Vault](#)
 - [Using External Secrets Operator \(ESO\) in epic-app to inject secrets](#)
 - [Using Vault Secrets in Non-K8s Workloads](#)
 - [Managing Substrate Vault Secrets with Castle \(CLI\)](#)
 - [Using Substrate Vault Secrets with Codefresh](#)
 - [Using Substrate Vault Secrets with Github Actions](#)
 - [Using Substrate Vault with vault-injector to Inject Secrets](#)
 - [Vault Access for K8S Service Accounts \(SA\)](#)
- [Deployment Strategies](#)
 - [Blue/Green Deployments](#)
 - [Canary Deployments](#)
 - [Substrate Deploys without Downtime](#)
- [Tagging AWS Resources in Substrate](#)
 - [How To Add Required Tags to Resources in Substrate](#)
- [Using Artifactory with Substrate](#)
- [Using AWS Lambda with Substrate](#)

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