

Initial Work

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Initial Work

This is where you will begin your migration work. At this point you should already have a dev and live substrate account for use.

Create Substrate Branch

By creating a branch for all your migration work, you can prevent any issues with OldProd deployments. Here you will make any application code changes and add your Helm Charts and Terraform for Substrate.

Generate Helm Chart

To get your application running in Substrates' Kubernetes Cluster, you will need a Helm chart based on epic-app to run your service. The Inflow tool allows you to generate this chart for your service. You can learn more about the Inflow Helm Generator in the UI: <https://inflow.ol.epicgames.net/tool/helm> (click on  for the guide or go to this link for the <https://confluence-epicgames.atlassian.net/wiki/spaces/TECHGOV/pages/68682884>).

Generate Terraform

Initially you will only need barebones Terraform with a Security Group for your load balancers. As you move onto migrating other resources, you can add your Terraform here.

Service Changes for Substrate

In order to get your service to boot in Substrate, you most likely need to make some application code changes to account for the difference in underlying infrastructure. The commo changes are:

1. Change logging configuration to send logs to stdout [LINK TO GUIDE]
2. Change application code to account for any EC2 metadata fetching [LINK TO GUIDE]
3. IAM accounts [LINK TO GUIDE]

Copy Vault Secrets to Substrate Vault

In order for your service to access vault secrets, it will need to access them from Substrate Vault (a separate Vault from OldProd). We have provided a guide on how to do so. [\[LINK TO GUIDE\]](#)

Build and Deploy Pipeline

You will need a separate build and deploy pipeline for Substrate. You can choose to continue using whichever tool your team currently uses or you can use this opportunity to move to another platform. Create these pipelines and set them to run builds from your new branch. Templates for GitHub Actions and Codefresh are provided to get you started: [\[LINK TO GUIDE\]](#)

- [Converting a Tag Role from OldProd to a Helm Chart for Substrate](#)
- [Debugging Your Helm Chart](#)
- [Migrating Secrets From OldProd Vault to Substrate Vault](#)

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