

# Cloud Starter Kit (CSK) User Guide

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# Introduction

Cloud Starter Kit is an easy way to bootstrap a new services on Substrate. Cloud starter integrates with Backstage service registration, as the last step, when you have to supply a repo link you will have the opportunity to create it. It combines some up-front inputs about your Substrate environment to produce a base application repository that's ready to deploy (or very close!). Cloud Starter Kit can save you time, whether you are new to Substrate or an experienced user looking to launch a new service.

Starter Kits give you a number of things out of the box that are common for launching new apps on the Substrate, such as:

- Helm configuration that uses epic-app
- Terraform configuration with some commonly-defined AWS resources
- An initial CI/CD workflow
- Example code

The related configuration files are customized to your Substrate environment based on your inputs.

## Prerequisites

1. For accessing the UI you need to be on [VPN](#) and login using [Okta](#)
2. Access - FTEs will be granted access by default, but contractors will need to request **Cloud Developer Platform (CDP) - General Users** in [SailPoint](#)
3. In order to use CSK your Service Catalog service in Backstage must already be registered. If you have not yet registered a service in Backstage, refer to the instructions for registering a service [Register or Update a Service on Backstage](#).
4. You will also need to know which Artifactory project your GitHub org is able to write images. Please feel free to reach out to us in [#ct-devplat-cade-ext](#)

## How to use CSK (Walkthrough)

### Prerequisite Information

This is the information you will need before creating your service.

<b>Service</b>	This is the name of the service. Refer to the instructions for more details.
<b>CI/CD workflow</b>	Your preferred CI/CD workflow.

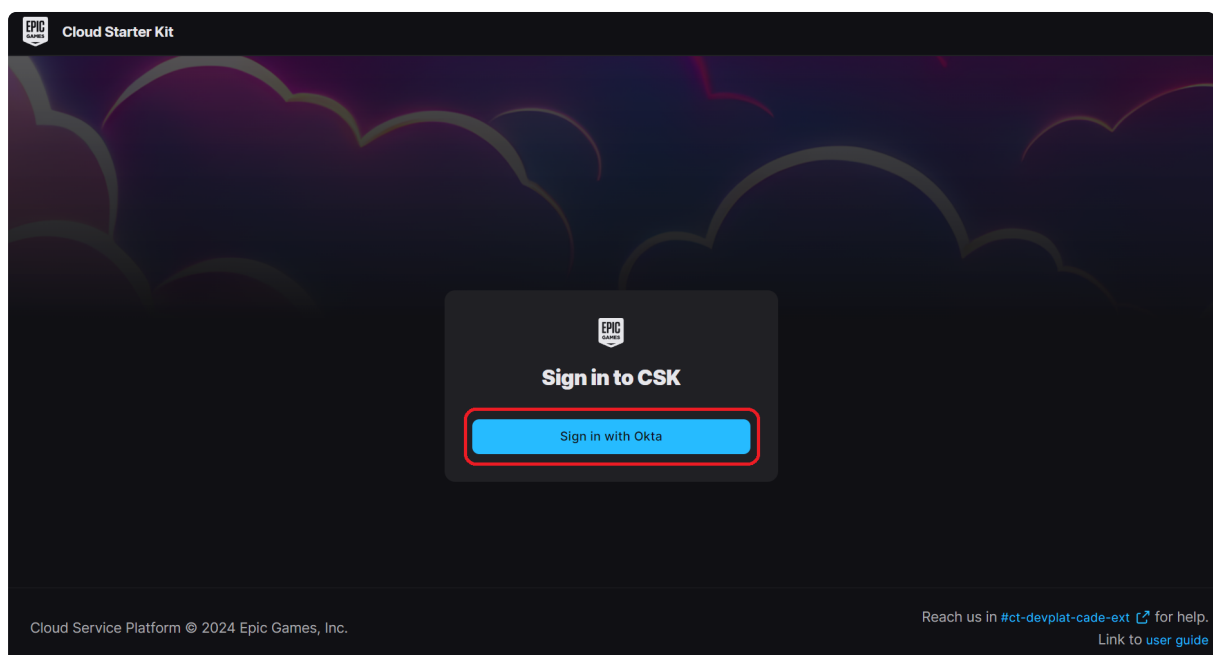
<b>Github Org*</b>	Github Enterprise
<b>Destination Github Repository*</b>	Destination Github
<b>Prod Artifactory Docker Registry*</b>	An Artifactory doc project that was c workflow will ask
<b>EpicApp Version*</b>	The latest version
<b>Dev AWS Account*</b>	Your dev AWS acco
<b>Prod AWS Account*</b>	Your prod AWS ac
<b>Dev Cluster*</b>	An EKS cluster na
<b>Prod Cluster*</b>	An EKS cluster in
<b>Dev Namespace*</b>	The dev EKS nam
<b>Prod Namespace*</b>	The prod EKS nam

# 1 - Login

There are 2 points of entry for CSK. If you created a service in the Service Catalog in Backstage, after creation you will be presented with a link to CSK. The link will automatically take you to Step 3 below after login, with all of the service information prepopulated.

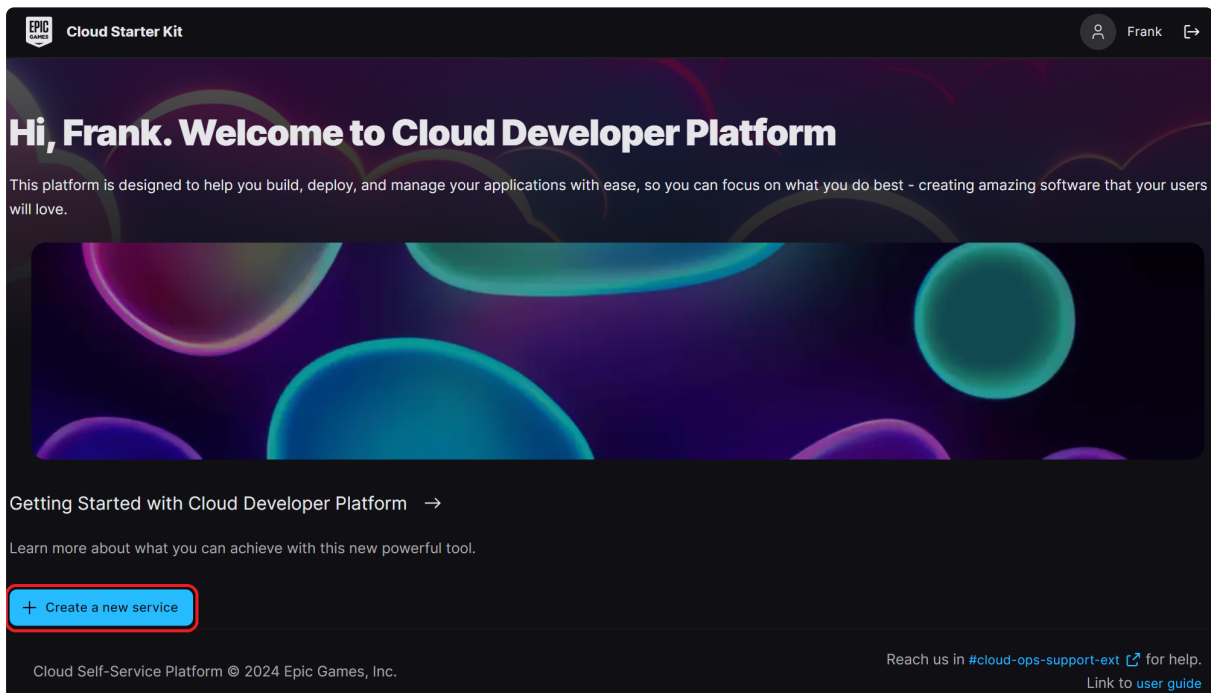
If you already created your service in the service catalog according to the instructions in the [Prerequisites](#), but did not use the link provided, go to one of the following environments and click **Sign in with Okta**

dev	live
<a href="https://csp.cdp-dev.on.epicgames.com/csk/flow/service-provision">https://csp.cdp-dev.on.epicgames.com/csk/flow/service-provision</a>	<a href="https://csk.on.epicgames.com">https://csk.on.epicgames.com</a>



## 2 - Welcome Page

On the Welcome page click **Create a New Service**



## 3 - Select the Backstage Service

Select the Service from the Dropdown then click **Continue**. If you don't already have a service you will need to first create a service in Backstage. For instructions for registering a service refer to [Register or Update a Service on Backstage](#).

## Service Provisioning

- 1 Select Your Service from Service Catalog** ⓘ  
Services \*  
  
Please select a service to proceed to the next step.  
If you cannot find your service you might need to create your service in [Backstage](#)
- 2 Select Service Language** ⓘ
- 3 Select Configuration Template** ⓘ
- 4 Your Service Information**

After selecting the service from the dropdown, it will automatically pull in the information from the Service Catalog in Backstage.

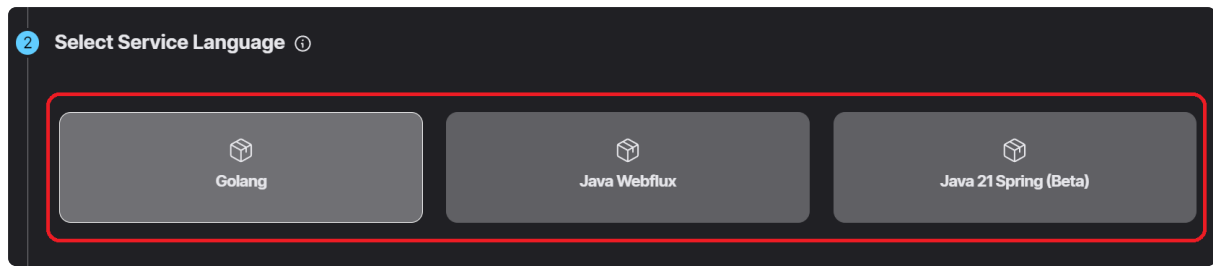
## Service Provisioning

- 1 Select Your Service from Service Catalog** ⓘ  
Services \*  
  
Please select a service to proceed to the next step.  
If you cannot find your service you might need to create your service in [Backstage](#)   
**Information from Service Catalog about the selected service** ⓘ

Backstage EUID	euid-aa6f41er
Service Title	CSK Demo
Service Name	csk-demo
Service Description	CSK Demo
Service Owner	cloud-developer-platform
Service Email	ct-dp-cdp@epicgames.com

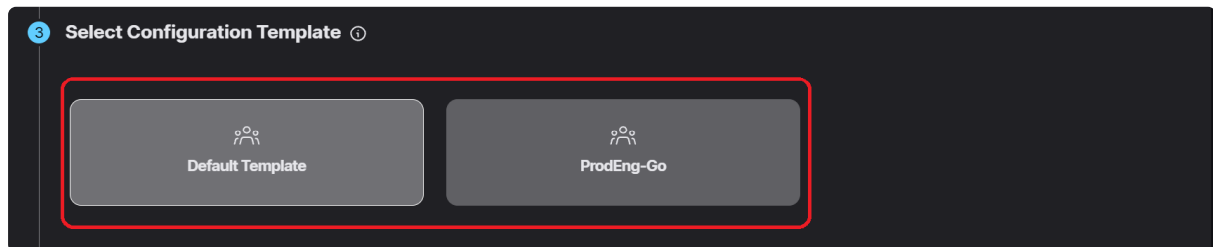
## 4 - Select Service Language

Choose the Service Language based on the programming language for your service. (Ex. Java Webflux, Golang, etc...)



## 5 - Select a Configuration Template

If your team has a config template available you can select that from the list. If no specific config template is needed you can select **Default Template**



## 6 - CI Tooling selection

Select the CI/CD workflow from the dropdown. (at the moment we support CodeFresh and GH actions)



4

Your Service Information

CI Tooling selection ⓘ

CI/CD workflow

github-actions

GitHub Enterprise (GHE) Selection ⓘ

GitHub Org \*

cloud-eng

GitHub Organisation where your service's repository will be created

Destination Github Repository \*

csk-demo

GitHub Repository Name that is going to be created, e.g. 'an-awesome-api'

Deployment Details Selection ⓘ

Prod Artifactory Docker Registry \*

cloudeng-docker

Name of Prod Artifactory Docker Registry

EpicApp Version \*

3.8.1

EpicApp Version

Dev AWS Account \*

dead-dev

Name of dev/non-prod AWS Account

Prod AWS Account \*

beef-live

Name of Prod AWS Account

Dev Cluster \*

a\_\_dead-dev

Name of dev/non-prod Cluster

Prod Cluster \*

a\_\_beef-live

Name of Prod Cluster

Dev Namespace \*

csk-demo

Dev/non-prod Kubernetes cluster namespace

Prod Namespace \*

csk-demo

Prod Kubernetes cluster namespace

## 7 - GitHub Enterprise (GHE) Selection

Enter the GitHub Organization, repo, and GitHub Team details.

4

Your Service Information

CI Tooling selection ⓘ

CI/CD workflow

github-actions

GitHub Enterprise (GHE) Selection ⓘ

Github Org \*

cloud-eng

Github Organisation where your service's repository will be created

Destination Github Repository \*

csk-demo

Github Repository Name that is going to be created, e.g. 'an-awesome-api'

Deployment Details Selection ⓘ

Prod Artifactory Docker Registry \*

cloudeng-docker

Name of Prod Artifactory Docker Registry

EpicApp Version \*

3.8.1

EpicApp Version

Dev AWS Account \*

dead-dev

Name of dev/non-prod AWS Account

Prod AWS Account \*

beef-live

Name of Prod AWS Account

Dev Cluster \*

a\_\_dead-dev

Name of dev/non-prod Cluster

Prod Cluster \*

a\_\_beef-live

Name of Prod Cluster

Dev Namespace \*

csk-demo

Dev/non-prod Kubernetes cluster namespace

Prod Namespace \*

csk-demo

Prod Kubernetes cluster namespace

## 8 - Deployment Details

Fill in the fields for Deployment Details using the information in the Prerequisite Information table above.

4

Your Service Information

CI Tooling selection ⓘ

CI/CD workflow

github-actions

GitHub Enterprise (GHE) Selection ⓘ

Github Org \*

cloud-eng

Github Organisation where your service's repository will be created

Destination Github Repository \*

csk-demo

Github Repository Name that is going to be created, e.g. 'an-awesome-api'

Deployment Details Selection ⓘ

Prod Artifactory Docker Registry \*

cloudeng-docker

Name of Prod Artifactory Docker Registry

Dev AWS Account \*

dead-dev

Name of dev/non-prod AWS Account

Dev Cluster \*

a\_\_dead-dev

Name of dev/non-prod Cluster

Dev Namespace \*

csk-demo

Dev/non-prod Kubernetes cluster namespace

EpicApp Version \*

3.8.1

EpicApp Version

Prod AWS Account \*

beef-live

Name of Prod AWS Account

Prod Cluster \*

a\_\_beef-live

Name of Prod Cluster

Prod Namespace \*

csk-demo

Prod Kubernetes cluster namespace

## 9 - Submit Service

When the form has been completed click **Submit Service**

4

Your Service Information

CI Tooling selection ⓘ

CI/CD workflow

github-actions

GitHub Enterprise (GHE) Selection ⓘ

Github Org \*

cloud-eng

Github Organisation where your service's repository will be created

Destination Github Repository \*

csk-demo

Github Repository Name that is going to be created, e.g. 'an-awesome-api'

Deployment Details Selection ⓘ

Prod Artifactory Docker Registry \*

cloudeng-docker

Name of Prod Artifactory Docker Registry

EpicApp Version \*

3.8.1

EpicApp Version

Dev AWS Account \*

dead-dev

Name of dev/non-prod AWS Account

Prod AWS Account \*

beef-live

Name of Prod AWS Account

Dev Cluster \*

a\_dead-dev

Name of dev/non-prod Cluster

Prod Cluster \*

a\_beef-live

Name of Prod Cluster

Dev Namespace \*

csk-demo

Dev/non-prod Kubernetes cluster namespace

Prod Namespace \*

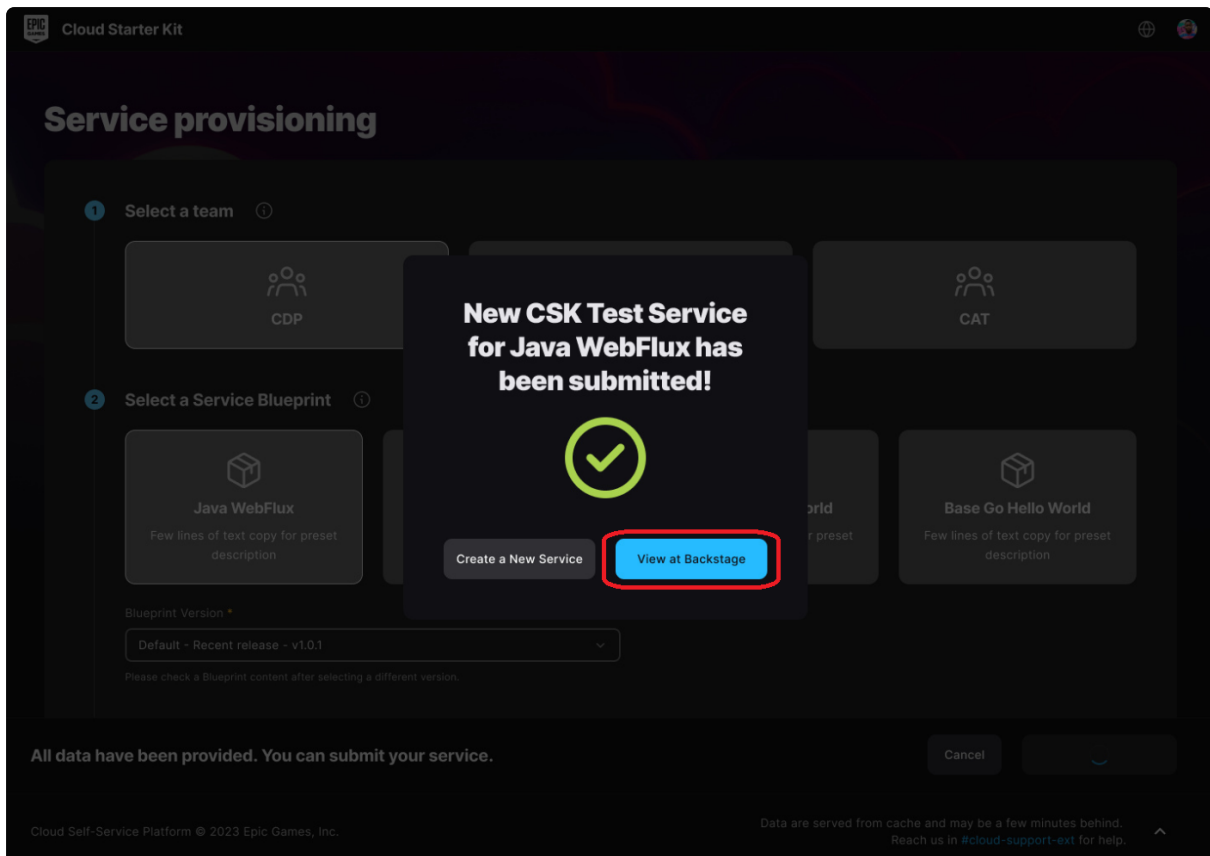
csk-demo

Prod Kubernetes cluster namespace

Submit →

## 10 - Confirmation

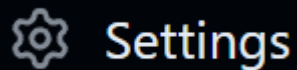
After the service has been created you will see a confirmation. To see it in Backstage click **View at Backstage**



## Note

CSK will create the GitHub repository for the service as **Internal**. If you want to change that to **Private**, you will have to go to your repo in

<https://github.ol.epicgames.net/>, click on



, then scroll

**Change visibility**

to the bottom of the page and click  
select **Change to Private**.

# Glossary

<b>Configuration Template</b>	A preconfigured template containing application
<b>Configuration Template Layer</b>	Within a Configuration Template Repository, multiple layers are needed for multiple Configuration Template Repositories. For example, selecting CodeFresh, the Scaffolder component uses the Actions Configuration Template Layer.
<b>Configuration Template File</b>	This is a file within a Configuration Template Layer that contains content based on the input service data.
<b>Scaffolder</b>	This is a critical component of the CSK response that generates any supporting resources. The input service data is used to generate the scaffolding.
<b>CSK Schema</b>	This is a centralized schema defining the input service data values set by a Team Data Preset.
<b>Team Data Preset</b>	The data values that a team can set as preset for their team.
<b>Team</b>	Your team name where you can access your CSK data.
<b>Team User</b>	
<b>Team Admin</b>	

# CSK features

## Team and Configuration Template Management

- Organize and access your team's Configuration Templates tailored specifically for your team's needs.
- Access permissions are driven by the teams you are a part of, ensuring a secure and controlled place for service creation.

## Configuration Template Selection

- Select from a diverse range of Configuration Templates that are customized for you.
- Each Configuration Template provides pre-configured settings such as app Service Language, service details, CI/CD settings and deployment information.

## Configuration Template Customization

- Information such as *Service Owner, Email, and Slack details*
- GitHub And Secret information such as *GitHub Org, Vault Secrets*
- Deployment Information such as *Epic App Version, Staging/Prod AWS accounts, Staging/Prod cluster names and Docker Registry*

## What Service Languages are available?

The Service Language of an application can be found in the cloud-starter-kit GitHub repository: [here](#)

Should you require a new one, simply reach out for assistance.

# FAQ's

## How to Request a Team

Reach out to  [#ct-devplat-cade-ext](#) via slack with the following information.

What we need	Example
Team Name	Delta
Team Description	Delta is an epic team
Team Owner	name.surname

## How to Request a Configuration Template

Reach out to  [#ct-devplat-cade-ext](#) via slack.


Before asking for one, you need to have access to:

- **Substrate AWS Account** for Dev and Live environments
- **EKS Cluster name** for Dev and Live environments
- **Artifactory Docker Registry name** which is the docker repository name associated with the Artifactory project and the Substrate Account



If you have access to the above, the core details we need are:

What we need	Example
Artifactory Docker Registry Names	substr-dummy
Staging AWS Account Names	dead-dev
Staging Cluster Names	dead-dev-substr
Live AWS Account Names	adff-live
Live AWS Cluster Names	adff-live-substr

If you need any support with any of the above reach out to  [#cloud-ops-support-ext](#)

## How to request support?

We are here to provide the support you need if you encounter any issues or have questions about the product,

please reach out to us at  [#cloud-ops-support-ext](#)

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