Etube

A platform for ECS to implement sophisticated workflows:

continuous integration

continuous deployment

When?

When we are working on ECS onboard.

ECS

Openshift: 是一个企业就绪型 Kubernetes 容器平台，可以实现全堆栈自动化运营，以管理混合云和多云部署。

Docker: Building and deploying new applications is faster with containers. Docker containers wrap up software and its dependencies into a standardized unit for software development that includes everything it needs to run: code, runtime, system tools and libraries. This guarantees that your application will always run the same and makes collaboration as simple as sharing a container image.

Container

Continuous Integration: In traditional software development the process of integration generally took place at the end of a project after each person had completed their work. Integration generally took weeks or months and could be very painful. Continuous integration is a practice that puts the integration phase earlier in the development cycle so that building, testing and integrating code happens on a more regular basis.

<https://www.mindtheproduct.com/2016/02/what-the-hell-are-ci-cd-and-devops-a-cheatsheet-for-the-rest-of-us/>

Why ECS?

Benefit of continuous integration and continuous deployment

How can we do that

Pipeline plugin -> Etube

Docker: Images and containers

镜像是一个可执行程序包，包含有运行应用程序所需的所有内容——包括代码、运行时、库、环境变量和配置文件

容器是一个镜像的运行时实例——具有状态或者用户进程的镜像

容器技术与虚拟机技术

容器在linux中运行，与其他容器共享主机内核，一个容器运行在一个独立进程上，占用内存较少，从而有轻量化的特定

虚拟机运行一个完整的操作系统，通过虚拟机处理程序来虚拟访问主机资源，为满足大多数应用需求，一个虚拟机要提供一个具有较多资源的环境

Kubernetes

端口问题

Projetc:

1. controll access and quotas for developers

2. a visualization of Kubernetes namespace based on developer access control

Openshift will always make sure that, if one pod dies, there is going to be new pod created to fill its place

internal abstraction and load balancing

access applications in openshift through routing layer

create a route

Deploy an application direct from source code in a remote git repository: Source to Image(S2I)

Web console/oc tool/rest api