CKA/CKAD Certification
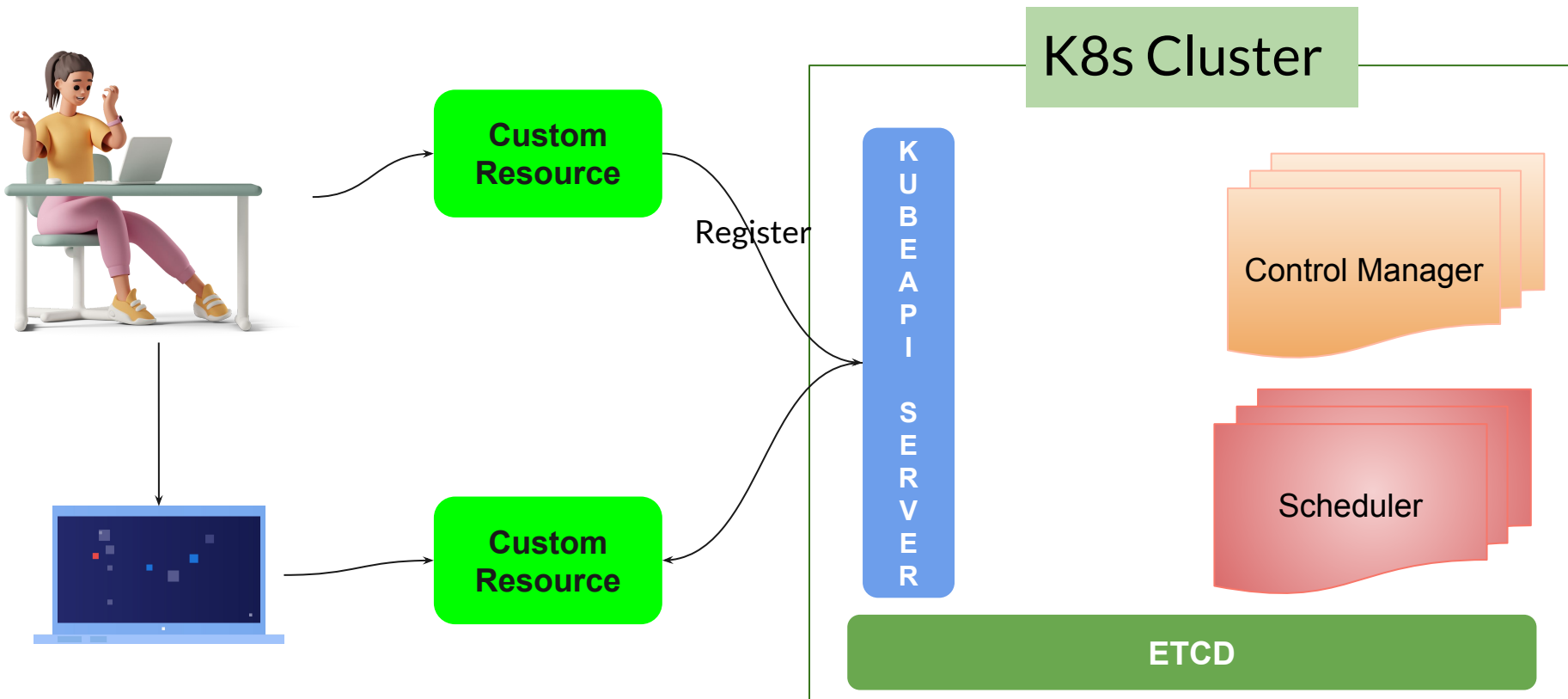
➢ **CRD** : Custom Resource Definition

➢ Custom resources definition (CRD) is a powerful feature introduced in Kubernetes 1.7 which enables users to add their own/custom objects to the Kubernetes cluster and use it like any other native Kubernetes objects.

➢ CRDs in Kubernetes can be used like any other native Kubernetes object thus leveraging all the features of Kubernetes like its CLI, security, API services, RBAC etc.

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➢ **Why CRD?**

➢ Feature is not a part of K8s Cluster.

➢ User want to maintain feature development and lifecycle.

➢ CRDs must be register with K8s cluster before using that CRD.

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Custom Resource

Register

Custom Resource

K8s Cluster

KUBEAPI SERVER

Control Manager

Scheduler

ETCD

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```
apiVersion: batch/v1
kind: Job
metadata:
  name: countdown-job-ttl
spec:
…
```

API Group: In which Group Object is registered.

API Version: Which version of API that object is supporting in Deployed K8s Cluster.

```
apiVersion: apiextensions.k8s.io/v1
kind: CustomResourceDefinition
metadata:
  name: appconfigs.stable.example.com
spec:
…
```

Thank You...

Don't be the Same! Be Better!!!