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Storage Class



The interaction between PVs and PVCs

Provisioning

There are two ways PVs may be provisioned: statically or dynamically.

Static

A cluster administrator creates a number of PVs. They carry the details of the real storage, which is available for use by cluster users. They exist in the Kubernetes API and are available for consumption.

Dynamic

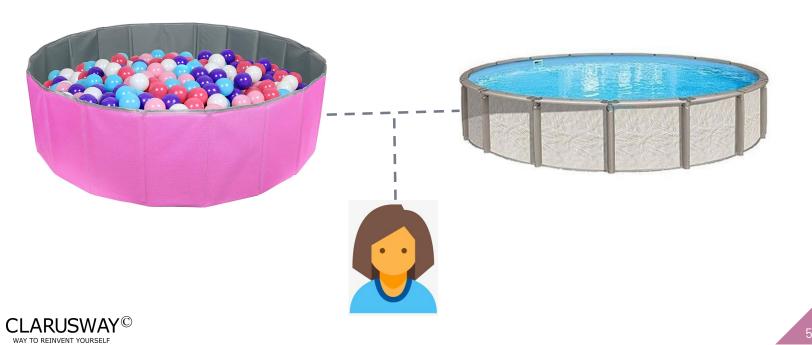
When none of the static PVs the administrator created match a user's PersistentVolumeClaim, the cluster may try to dynamically provision a volume specially for the PVC. This provisioning is based on **StorageClasses**.



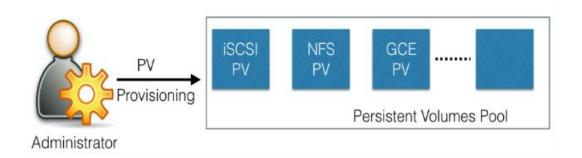
The interaction between PVs and PVCs

Static

Dynamic

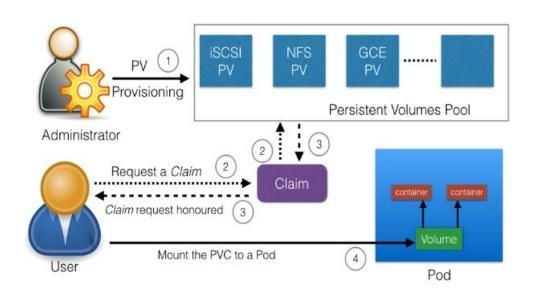


Static PV Provisioning





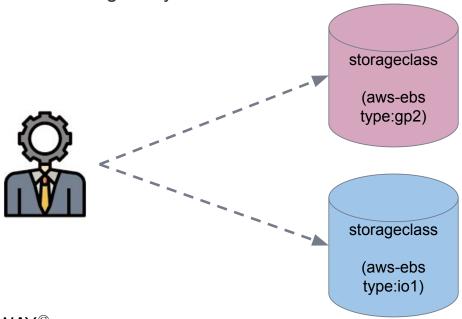
Static PV Provisioning





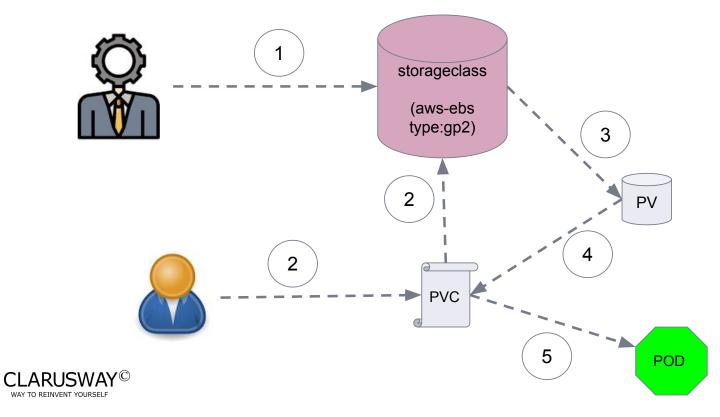
Dynamic PV Provisioning

A **StorageClass** provides a way for administrators to describe the "classes" of storage they offer.

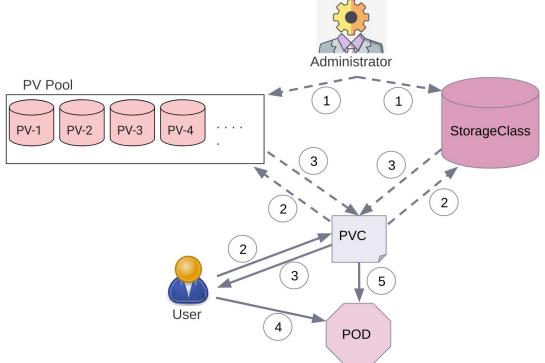




Dynamic PV Provisioning



PV Provisioning





Storage Class



```
kind: StorageClass
apiVersion: storage.k8s.io/v1
metadata:
  name: aws-standard
  annotations:
    storageclass.kubernetes.io/is-default-class:
"true"
provisioner: kubernetes.io/aws-ebs
parameters:
  type: gp2
  fsType: ext4
```

Provisioner: Each StorageClass has a provisioner that determines what volume plugin is used for provisioning PVs.

Parameters: Storage Classes have parameters that describe volumes belonging to the storage class. Different parameters may be accepted depending on the provisioner





Ingress



StoreFrontUI

Accounting

Inventory

Shipping





StoreFront Service

Accounting Service

Inventory Service

Shipping Service

StoreFrontUI

Accounting

Inventory

Shipping

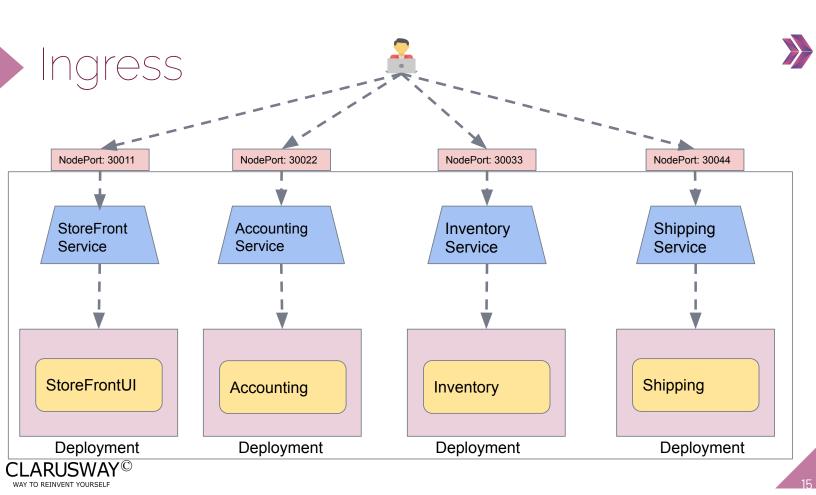
Deployment

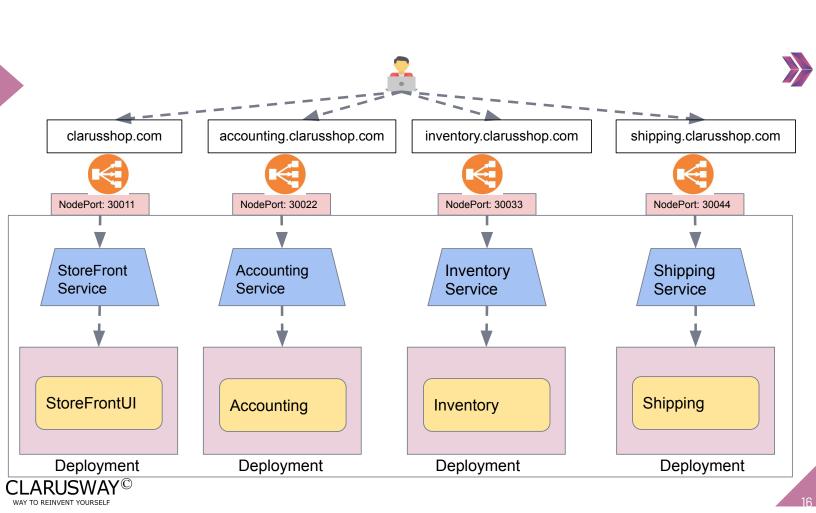
Deployment

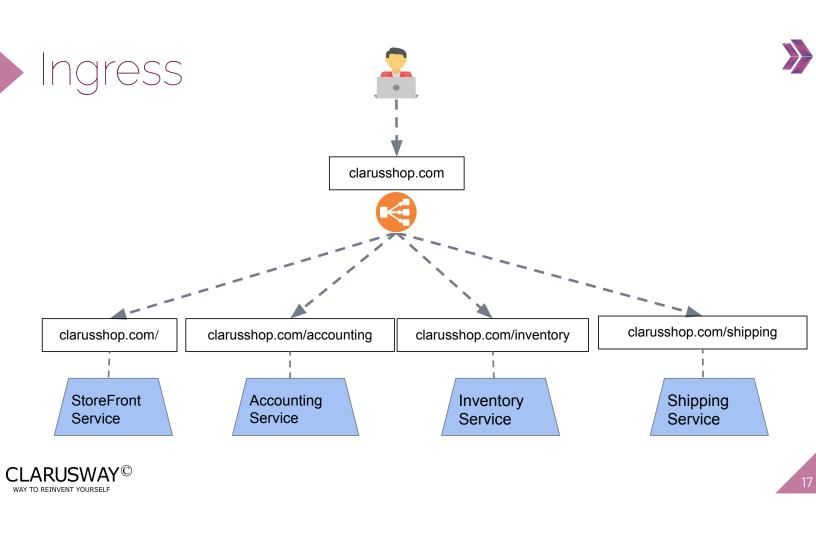
Deployment

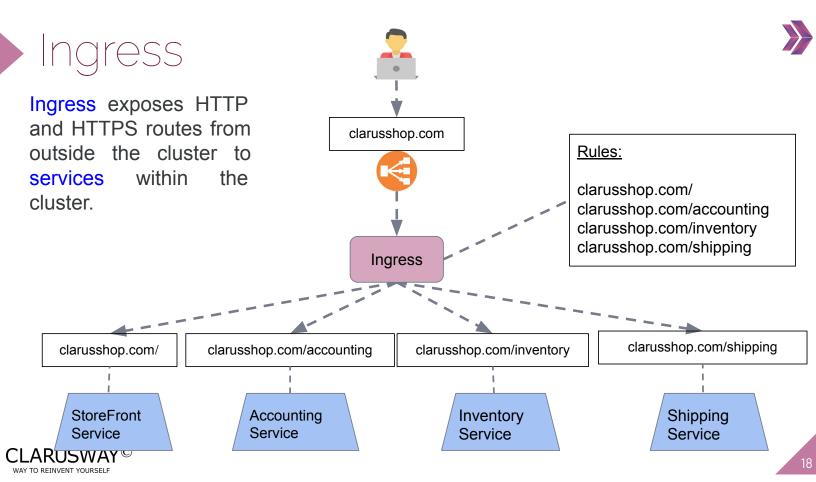
Deployment





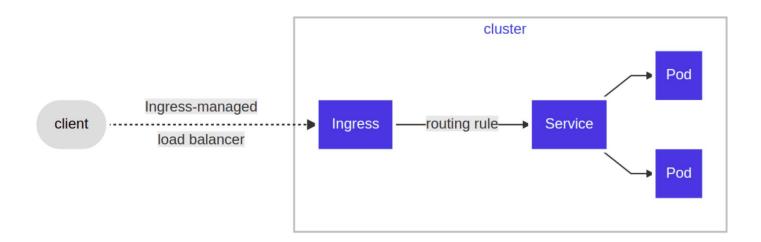






Ingress

"An Ingress is a collection of rules that allow inbound connections to reach the cluster Services."





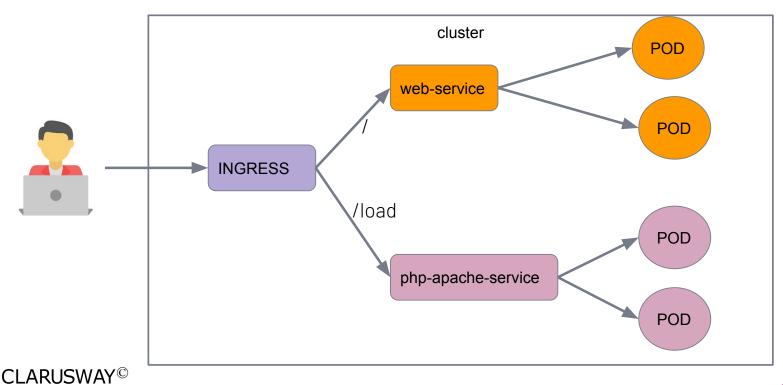
Ingress

With Ingress, users do not connect directly to a Service. Users reach the Ingress endpoint, and, from there, the request is forwarded to the desired Service.





Ingress





THANKSI

Any questions?

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