



Storage Classes and Ingress



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Storage Class

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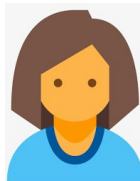


The interaction between PVs and PVCs

Static



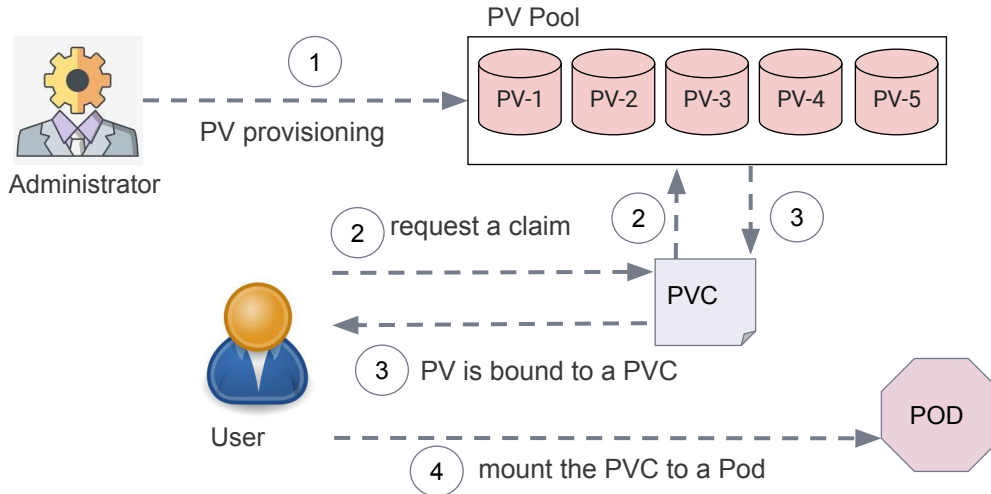
Dynamic



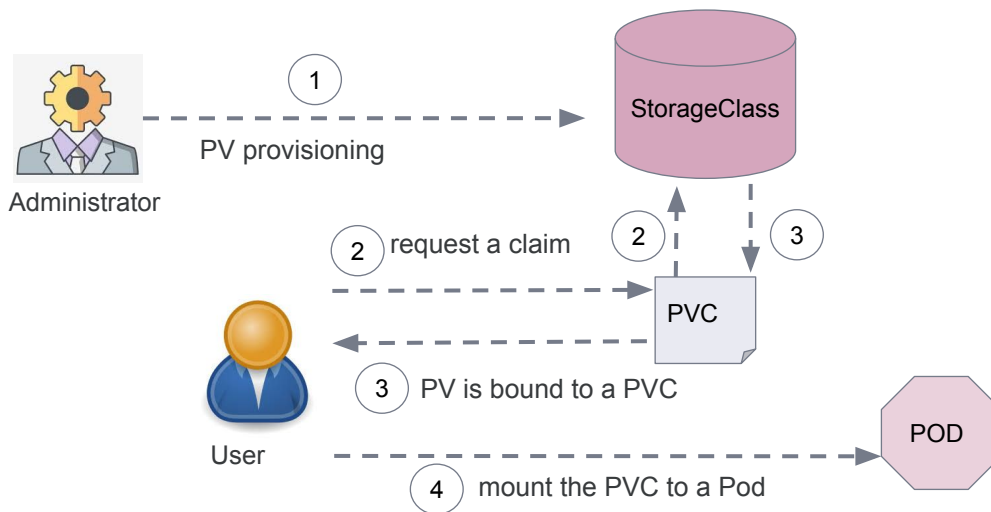
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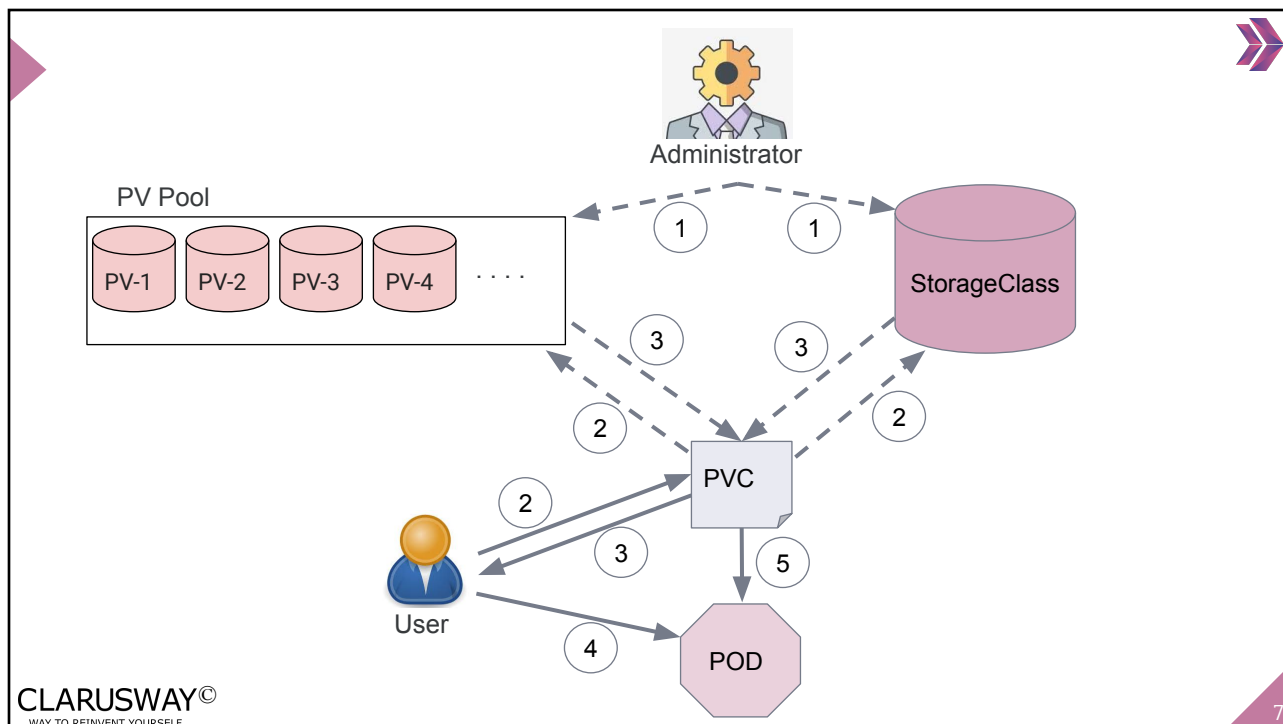


Static PV Provisioning



Dynamic 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



2

Ingress



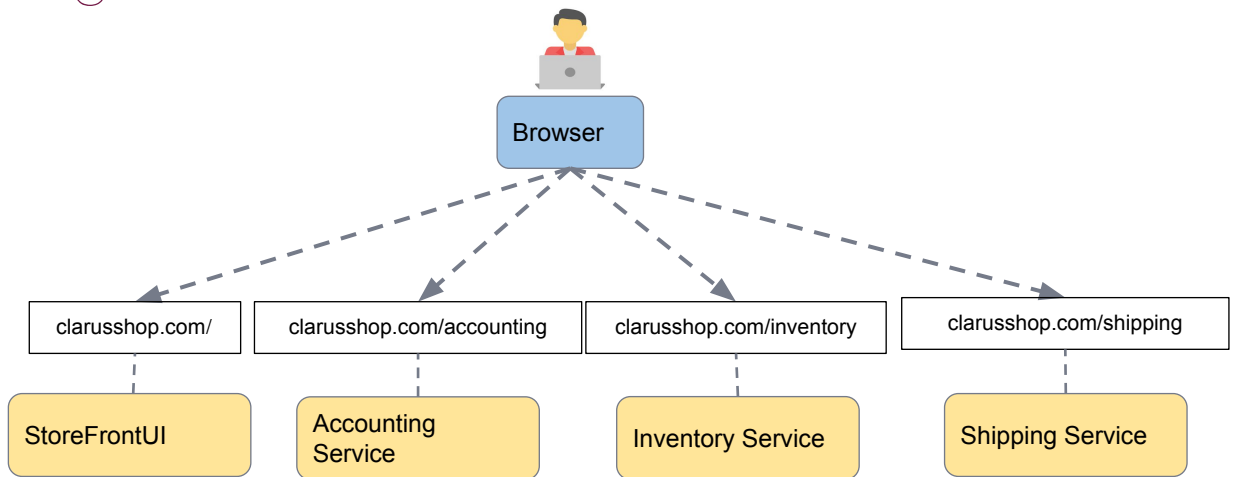
Microservices

Let's imagine that we are building an e-commerce application that takes orders from customers, verifies inventory and available credit, and ships them.

The application consists of several components including the StoreFrontUI, which implements the user interface, along with some backend services for checking credit, maintaining inventory and shipping orders.

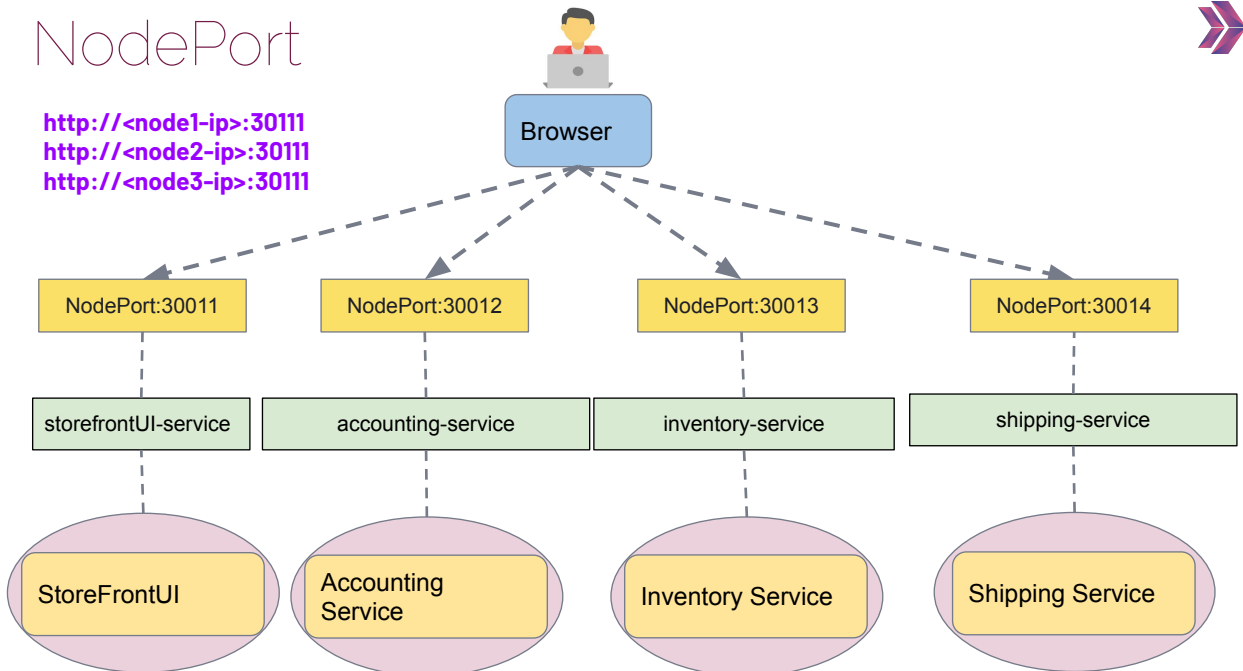


Ingress



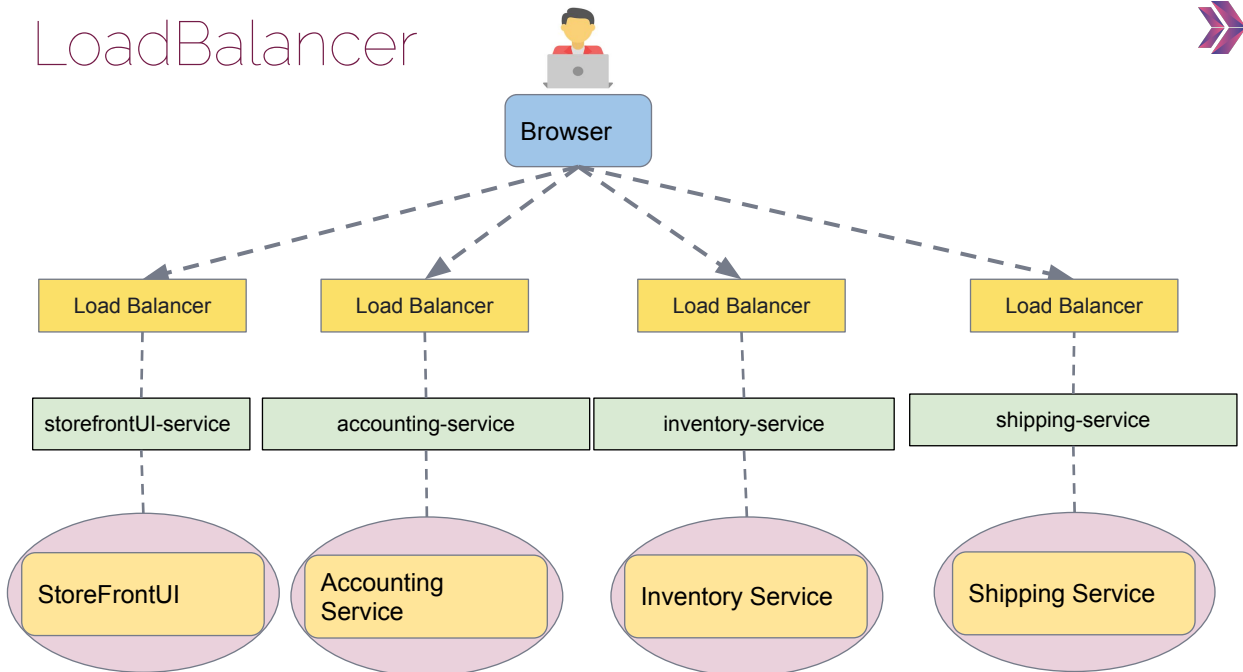
NodePort

`http://<node1-ip>:30111`
`http://<node2-ip>:30111`
`http://<node3-ip>:30111`

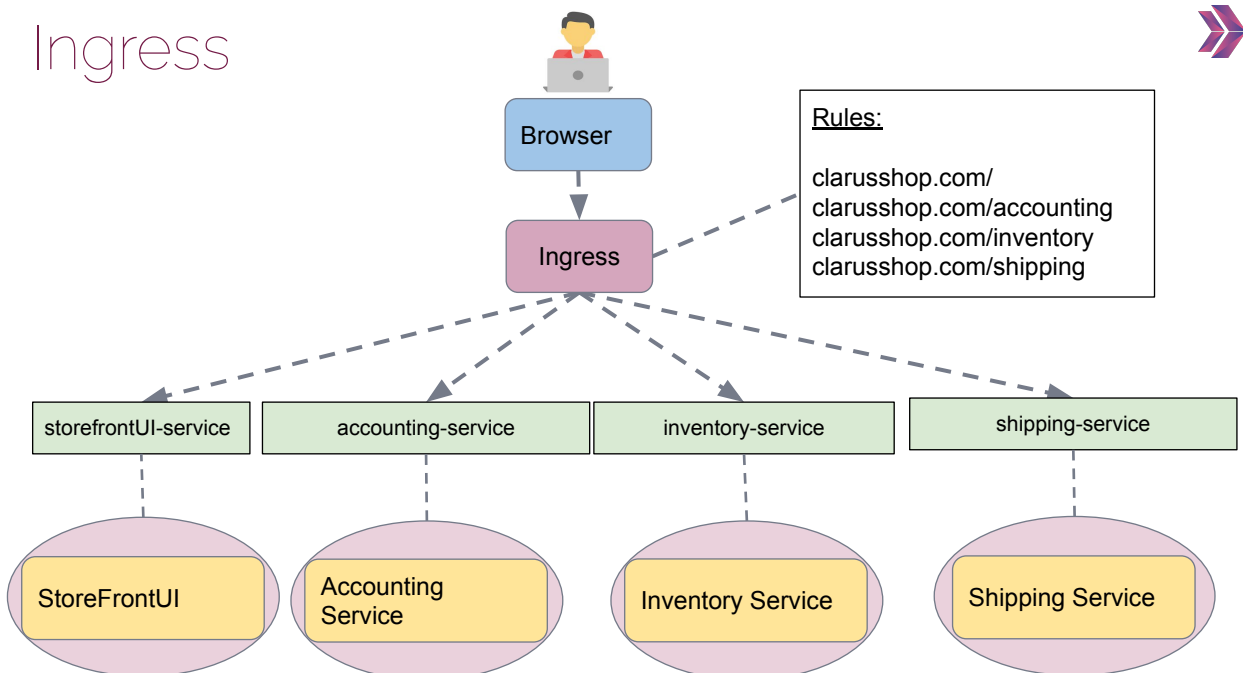




LoadBalancer

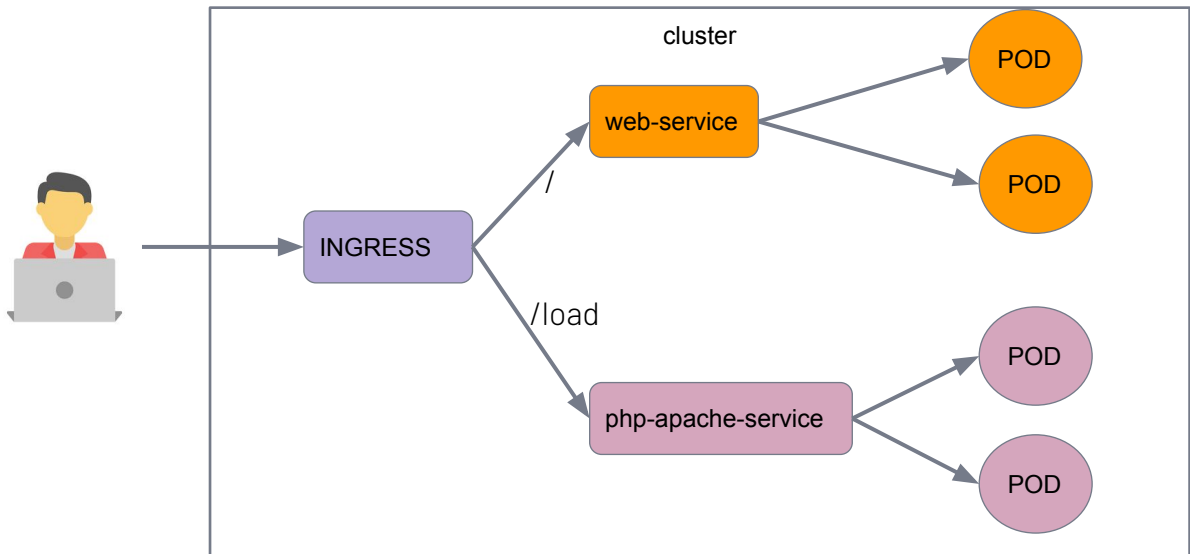


Ingress





Ingress



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.

```
apiVersion: networking.k8s.io/v1
kind: Ingress
metadata:
  name: ingress-service
  annotations:
    kubernetes.io/ingress.class: 'nginx'
    nginx.ingress.kubernetes.io/rewrite-target: /
spec:
  rules:
    - http:
        paths:
          - path: /
            pathType: Prefix
            backend:
              service:
                name: web-service
                port:
                  number: 3000
          - path: /load
            pathType: Prefix
            backend:
              service:
                name: php-apache-service
                port:
                  number: 80
```




THANKS!

Any questions?



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