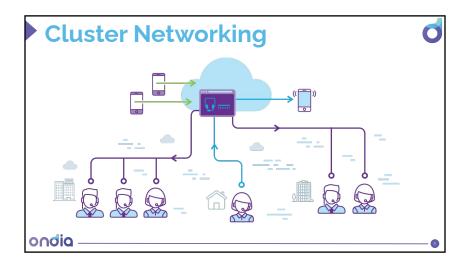


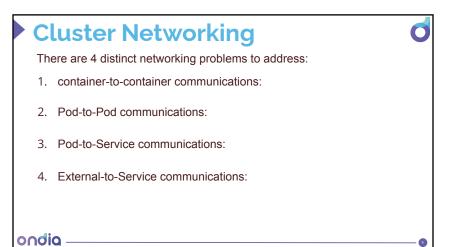
AGENDA

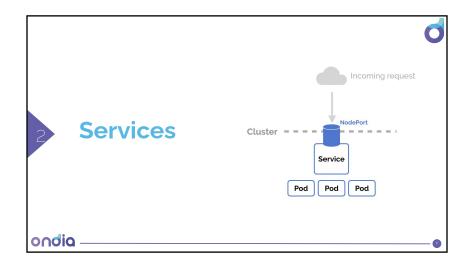
- Cluster Networking
- Services
- Service Types
- Labels and loose coupling

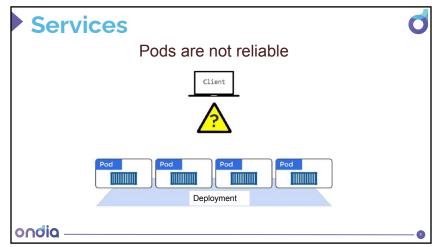
CLARUSWAY®

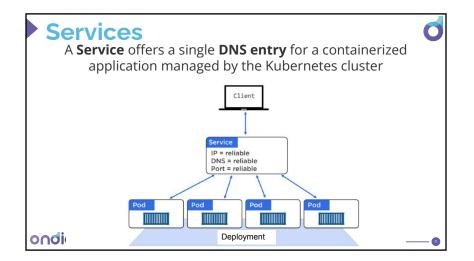


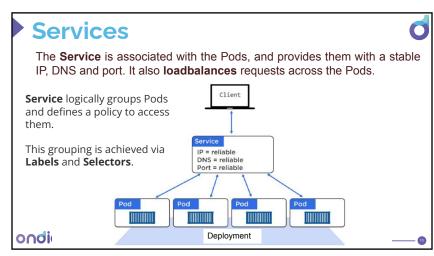


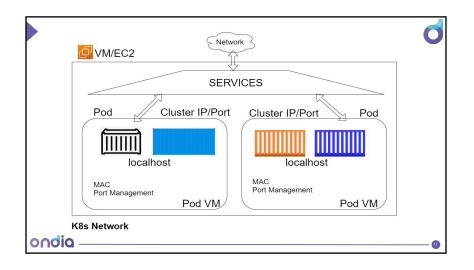


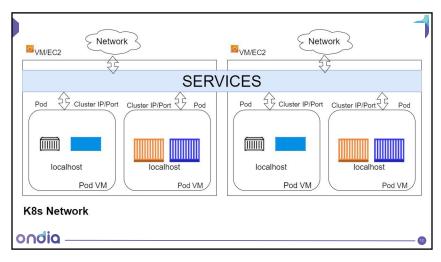


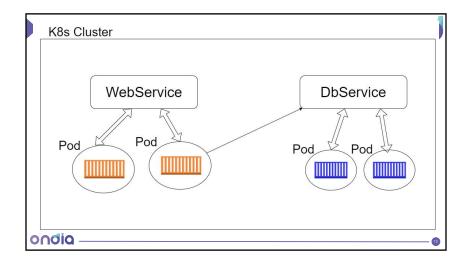


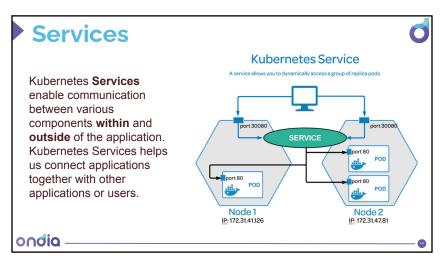




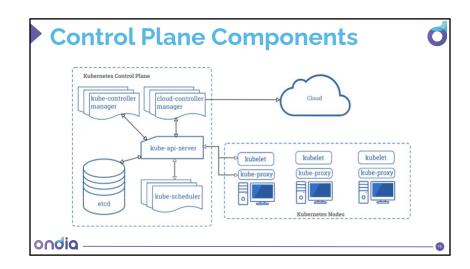


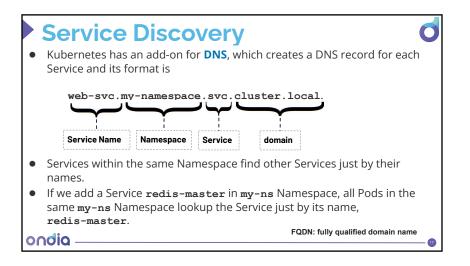


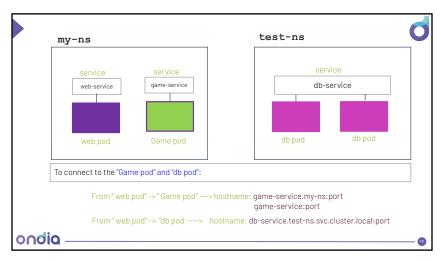




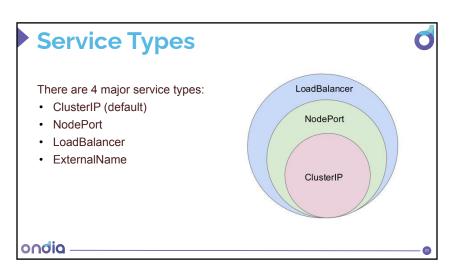
Each cluster node runs a daemon called kube-proxy kube-proxy is responsible for implementing the Service configuration on behalf of an administrator or developer For each new Service, on each node, kube-proxy configures iptables rules to capture the traffic for its ClusterIP and forwards it to one of the Service's endpoints. When the Service is removed, kube-proxy removes the corresponding iptables rules on all nodes as well.

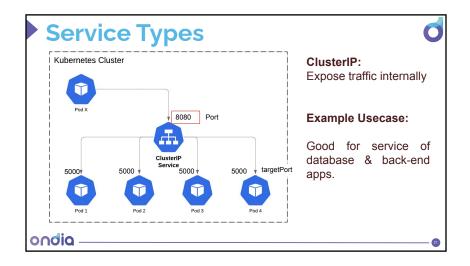


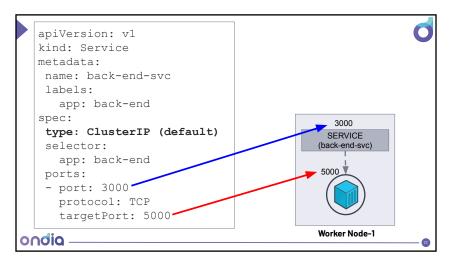


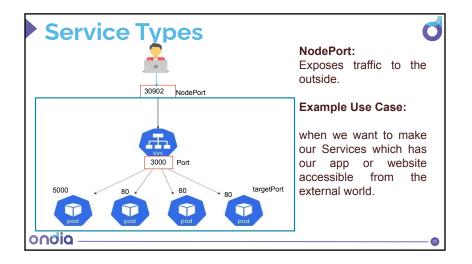


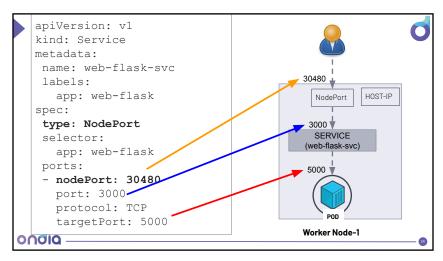


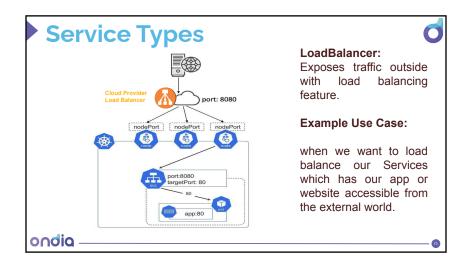


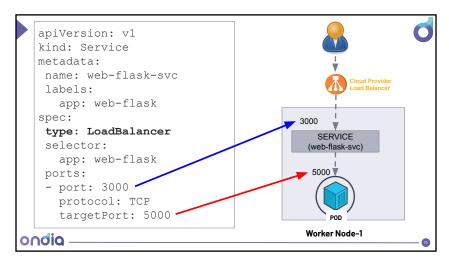








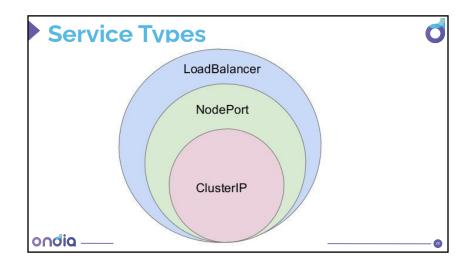




Service Types

LoadBalancer:

- The **LoadBalancer** *ServiceType* will only work if the underlying infrastructure supports the automatic creation of Load Balancers and have the respective support in Kubernetes, as is the case with the Google Cloud Platform, Azure or AWS.
- If no such feature is configured, the LoadBalancer IP address field is not populated, it remains in Pending state, but the Service will still work as a typical NodePort type Service.



Service Types

ExternalName:

Maps the Service to the contents of the ExternalName field (e.g. example.com), by returning a CNAME record with its value.

Example Use Cases:

to make externally configured services like;

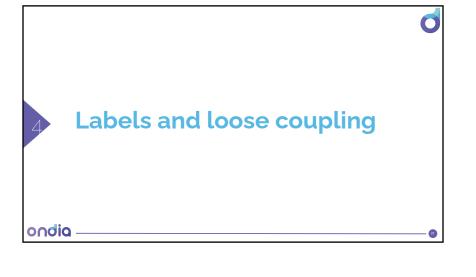
remote.server.url.com

available to applications inside the cluster.

ondia -

apiVersion: v1 kind: Service metadata: labels: io.kompose.service: mysql-server name: mysql-server spec: type: ExternalName externalName: mydb.cbanmzptkrzf.us-east-1.rds.amazonaws.com

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Labels and loose coupling

d

- Labels and Selectors use a key/value pair format.
- Pods and Services are loosely coupled via labels and label selectors.
- For a Service to match a set of Pods, and therefore provide stable networking and load-balance, it only needs to match some of the Pods labels.
- However, for a Pod to match a Service, the Pod must match all of the values in the Service's label selector.

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