Service Discovery

Unit 5.4.1

Services in Rancher

Pods are ephemeral. Although they have IP addresses, there is no guarantee that a Pod will exist at that IP in the future. Pods might fail health checks and be recreated, nodes can fail, or any number of things can befall them.

Kubernetes solves this with a Service, which gives a stable IP and DNS name to a group of Pods.

Services are automatically created for Workloads that expose a port, and in the Workload deployment screen, you can choose what kind of service to deploy: ClusterIP, NodePort, or LoadBalancer.

These can also be created from the Service Discovery tab of the Workloads screen, and this page offers additional options for service discovery.

An ExternalName service can point to a specific IP address or hostname. This acts like an A record or a CNAME.

An Alias service acts like an internal CNAME to another DNS record in the cluster. This can point to a workload in the same namespace or a different one.

References

Service Discovery - https://rancher.com/docs/rancher/v2.x/en/k8s-in-rancher/service-discovery/

Service Resource - https://kubernetes.io/docs/concepts/services-networking/service/