



SERVICES

Services

Service Types

Click on the boxes to learn more about each service type.

Service Types

ClusterIP

Close ^

The ClusterIP service type is the default, and only provides access internally (except if manually creating an external endpoint). The range of ClusterIP used is defined via an API server startup option.

NodePort

Close ^

The NodePort type is great for debugging, or when a static IP address is necessary, such as opening a particular address through a firewall. The NodePort range is defined in the cluster configuration.

LoadBalancer

Close ^

The LoadBalancer service was created to pass requests to a cloud provider like GKE or AWS. Private cloud solutions also may implement this service type if there is a cloud provider plugin, such as with CloudStack and OpenStack. Even without a cloud provider, the address is made available to public traffic, and packets are spread among the Pods in the deployment automatically.

ExternalName

Close ^

A newer service is ExternalName, which is a bit different. It has no selectors, nor does it define ports or endpoints. It allows the return of an alias to an external service. The redirection happens at the DNS

level, not via a proxy or forward. This object can be useful for services not yet brought into the Kubernetes cluster. A simple change of the type in the future would redirect traffic to the internal objects.

The **kubect1 proxy** command creates a local service to access a ClusterIP. This can be useful for troubleshooting or development work.