

# kube-dns

`kube-dns` schedules DNS Pods and Service on the cluster, other pods in cluster can use the DNS Service's IP to resolve DNS names.

- [Administrators guide](#)
- [Code repository](#)

## Manually scale kube-dns Deployment

kube-dns creates only one DNS Pod by default. If [dns-horizontal-autoscaler](#) is not enabled, you may need to manually scale kube-dns Deployment.

Please use below `kubectl scale` command to scale:

```
kubectl --namespace=kube-system scale deployment kube-dns --replicas=<NUM_YOU_WANT>
```

Do not use `kubectl edit` to modify kube-dns Deployment object if it is controlled by [Addon Manager](#).

Otherwise the modifications will be clobbered, in addition the replicas count for kube-dns Deployment will be reset to 1. See [Cluster add-ons README](#) and [#36411](#) for reference.

## kube-dns addon templates

This directory contains the base UNDERSCORE templates that can be used to generate the kube-dns.yaml.in needed in Salt format.

Due to a varied preference in templating language choices, the transform Makefile in this directory should be enhanced to generate all required formats from the base underscore templates.

**N.B.:** When you add a parameter you should also update the various scripts that supply values for your new parameter. Here is one way you might find those scripts:

```
cd kubernetes && git grep 'kube-dns.yaml'
```

### Base Template files

These are the authoritative base templates. Run 'make' to generate the Salt and Sed yaml templates from these.

```
kube-dns.yaml.base
```

### Generated Salt files

```
kube-dns.yaml.in
```

### Generated Sed files

```
kube-dns.yaml.sed
```