

# Adding DNS Entries to Core DNS

We are going to be adding a host alias for **example.com** in this example by adding the following to the coredns configmap:

```
hosts custom.hosts example.com {
  1.2.3.4 example.com
  fallthrough
}
```

For multiple hosts

```
hosts custom.hosts example.com test.com {
  1.2.3.4 example.com
  6.6.6.6 test.com
  fallthrough
}
```

Start by editing the coredns configmap:

```
kubectl -n kube-system edit configmap/coredns
```

```
apiVersion: v1
data:
  Corefile: |
    .:53 {
      errors
      health {
        lameduck 5s
      }
      ready
      kubernetes cluster.local in-addr.arpa ip6.arpa {
        pods insecure
        fallthrough in-addr.arpa ip6.arpa
        ttl 30
      }
      prometheus :9153
      forward . /etc/resolv.conf {
        max_concurrent 1000
      }
      cache 30
      loop
      reload
      loadbalance
      hosts custom.hosts example.com test.com {
        1.2.3.4 example.com
        6.6.6.6 test.com
        fallthrough
      }
    }
}
```

Force CoreDNS to reload the ConfigMap by entering:

```
kubectl delete pod --namespace kube-system -l k8s-app=kube-dns
```

Performing an nslookup from a pod should show the new IP address for example.com

```
root@ssh-server-5bd5774cf7-fgvt4:/# nslookup example.com
Server:                10.96.0.10
Address:               10.96.0.10#53

Name:                  example.com
Address: 1.2.3.4
```

## References

| Reference                          | URL   |
|------------------------------------|---|
| ** Add a Custom Host to Kubernetes | <a href="https://hjrocha.medium.com/add-a-custom-host-to-kubernetes-a06472cedccb">https://hjrocha.medium.com/add-a-custom-host-to-kubernetes-a06472cedccb</a>             |
| Coredns Host Plugin                | <a href="https://coredns.io/plugins/hosts/">https://coredns.io/plugins/hosts/</a>   |
| Customizing DNS Service            | <a href="https://kubernetes.io/docs/tasks/administer-cluster/dns-custom-nameservers/">https://kubernetes.io/docs/tasks/administer-cluster/dns-custom-nameservers/</a>     |
| Debugging DNS Resolution           | <a href="https://kubernetes.io/docs/tasks/administer-cluster/dns-debugging-resolution/">https://kubernetes.io/docs/tasks/administer-cluster/dns-debugging-resolution/</a> |
| Custom DNS Entries For Kubernetes  | <a href="https://coredns.io/2017/05/08/custom-dns-entries-for-kubernetes/">https://coredns.io/2017/05/08/custom-dns-entries-for-kubernetes/</a>                           |