Important

Namespaces are currently only supported for applications that directly use `librados`. RBD and Ceph Object Gateway clients do not currently support this feature.

To store an object inside a namespace, the client application must provide the pool and the namespace names. By default, each pool contains a namespace with an empty name, known as the default namespace.

Use the `rados` command to store and retrieve objects from a pool. Use the `-N` *name* and `--namespace=` *name* options to specify the pool and namespace to use.

The following example stores the `/etc/services` file as the `srv` object in the `mytestpool` pool, under the `system` namespace.

```
[ceph: root@node /]# rados -p mytestpool -N system put srv /etc/services
[ceph: root@node /]# rados -p mytestpool -N system ls
srv
```

List all the objects in all namespaces in a pool by using the `--all` option. To obtain JSON formatted output, add the `--format=json-pretty` option.

The following example lists the objects in the `mytestpool` pool. The `mytest` object has an empty namespace. The other objects belong to the `system` or the `flowers` namespaces.

```
[ceph: root@node /]# rados -p mytestpool --all ls
system  srv
flowers anemone
flowers iris
system  magic
flowers rose
        mytest
system networks
[ceph: root@node /]# rados -p mytestpool --all ls --format=json-pretty
[
    {
        "name": "srv",
        "namespace": "system"
    },
    {
        "name": "anemone",
        "namespace": "flowers"
    },
    {
        "name": "iris",
        "namespace": "flowers"
    },
    {
        "name": "magic",
        "namespace": "system"
    },
    {
```