

## POOLS

The Ceph Object Gateway uses several pools for its various storage needs, which are listed in the Zone object (see `radosgw-admin zone get`). A single zone named `default` is created automatically with pool names starting with `default.rgw.`, but a [Multisite Configuration](#) will have multiple zones.

### TUNING

When `radosgw` first tries to operate on a zone pool that does not exist, it will create that pool with the default values from `osd pool default pg num` and `osd pool default pgp num`. These defaults are sufficient for some pools, but others (especially those listed in `placement_pools` for the bucket index and data) will require additional tuning. We recommend using the [Ceph Placement Group's per Pool Calculator](#) to calculate a suitable number of placement groups for these pools. See [Pools](#) for details on pool creation.

### POOL NAMESPACES

*New in version Luminous.*

Pool names particular to a zone follow the naming convention `{zone-name}.pool-name`. For example, a zone named `us-east` will have the following pools:

- `.rgw.root`
- `us-east.rgw.control`
- `us-east.rgw.meta`
- `us-east.rgw.log`
- `us-east.rgw.buckets.index`
- `us-east.rgw.buckets.data`

The zone definitions list several more pools than that, but many of those are consolidated through the use of `rados` namespaces. For example, all of the following pool entries use namespaces of the `us-east.rgw.meta` pool:

```
"user_keys_pool": "us-east.rgw.meta:users.keys",
"user_email_pool": "us-east.rgw.meta:users.email",
"user_swift_pool": "us-east.rgw.meta:users.swift",
"user_uid_pool": "us-east.rgw.meta:users.uid",
```