



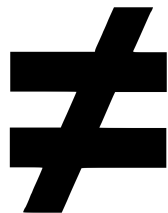
# What's new in MicroCeph?

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Micro

[Ceph|OVN|Cloud]



Small



# What is MicroCeph?

Consistent, isolated and upgrade friendly

- Streamlined and effortless deployment
- Minimal setup and maintenance overheads
- MicroCeph is a containerised snap with all of its dependencies and runs fully isolated from the underlying host
- Platform independent
- Distribution channels mean going from latest/stable to latest/edge is easy





# MicroCeph advantages

Storage for non-experts

- Easiest way to deploy Ceph, just a few commands
- Designed for non-experts
- Highly scalable
  - dev workstation, to edge, to datacenter
- Reliable and resilient
- RBD, CephFS, RGW
- Supports encryption at rest too!





# What's new - RDB Mirror Support

- Snapshot based
- Simple token exchange to link clusters

```
sudo microceph cluster export $secondary_cluster
```

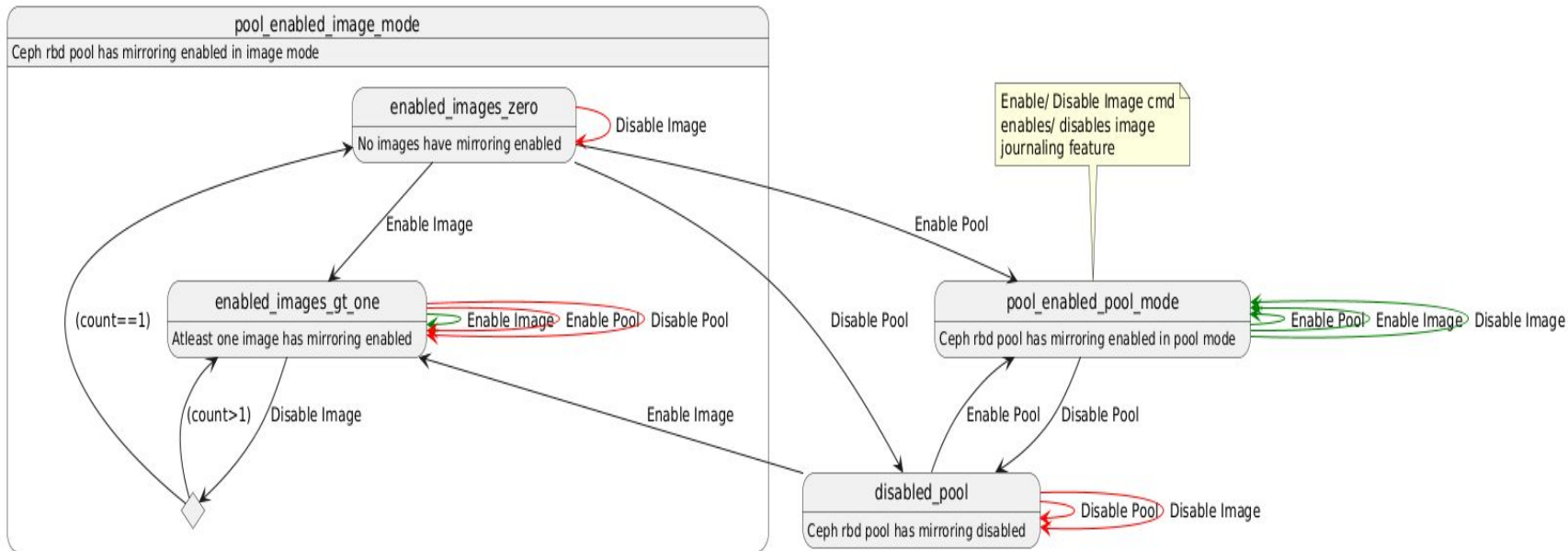
```
sudo microceph remote import $primary_cluster $token
```

- Enable a pool

```
microceph replication enable rbd $pool --remote  
$secondary_cluster
```



# What's new - RBD Mirror Support





# What's new - QAT

- Intel Quick Assist Technology
- On-Die Compression and Crypto Offload
- RGW server-side encryption
- Compression
  - RGW
  - Messenger
  - Bluestore
- OpenSSL

```
snap install microceph --channel=squid/edge/qat  
  
apt get -y install qatengine  
  
<bootstrap, add nodes and disks, enable rgw>  
  
ceph config set client.radosgw.gateway qat_compressor_enabled true
```

```
radosgw-admin zone placement modify \  
    --rgw-zone default \  
    --placement-id default-placement \  
    --storage-class STANDARD \  
    --compression zlib  
{
```



# What's next?

- CephFS-Mirror Management
  - Leverage same token based remote cluster awareness as RBD Mirror
- RGW-Multisite Management
  - Step 1, enable 1:1
  - Step2, enable M:N
- SMB Support
  - Single command feature enablement





Thank you! Questions?

