

# What's news in sun cluster

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# What`s news in sun cluster

- More flexible quorum capability
- Enhanced virtualization support
  - zone cluster
  - LDOMs
- ZFS boot support



# Quorum Votes and Quorum Devices

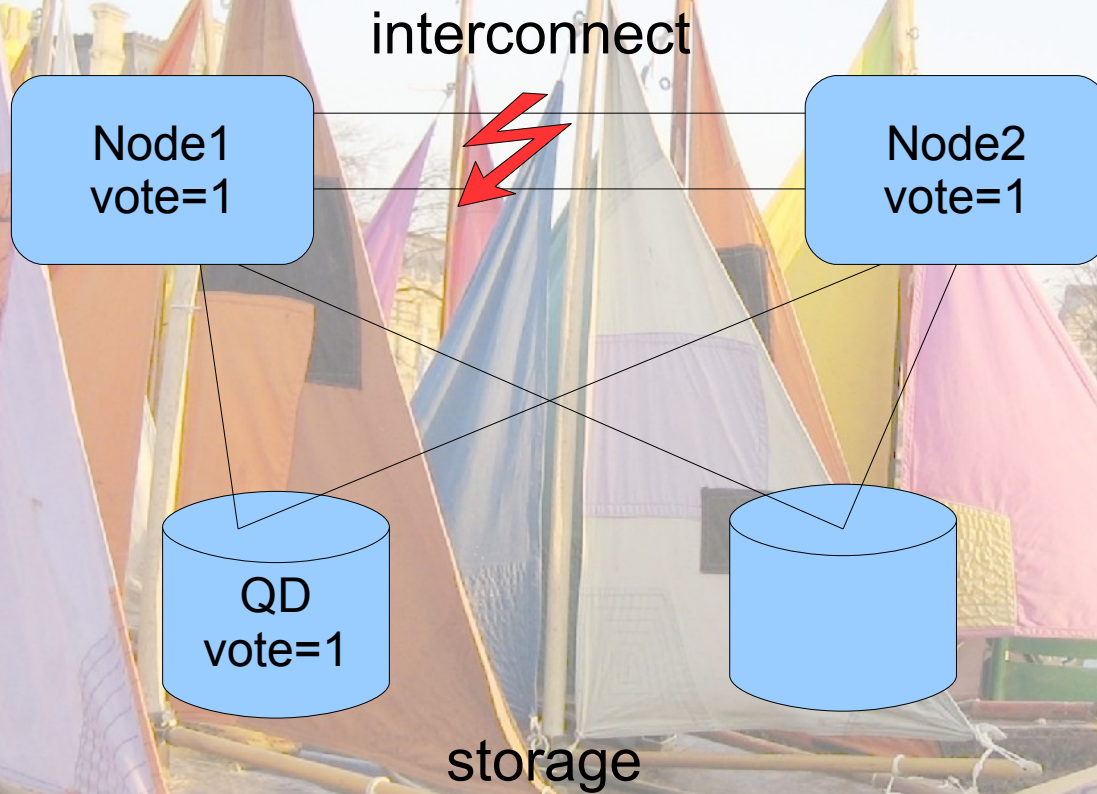
- Each node has exactly one vote
- Some devices are assigned votes
  - DAS (traditional most usual type)
  - NAS
  - Quorum server (new in sc3.2)
  - Software quorum (new in sc3.2 u2)
- Majority of votes required

# Why Have Quorum Voting at All?

- Failure fencing
- Amnesia prevention



# Failure Fencing



Memory-based SCSI reservation

# Amnesia prevention

- Persistent reservation (PGR, PGRE)
- Prevents to boot with stale configuration



# Quorum disk

- Ideal for local cluster
- SCSI capable disks only
- Non-local cluster need an additional quorum site



# Quorum server

- SPARC or x86 machine
- Not part of cluster
- Serves N-1 vote
- One quorum server for any number of cluster
- Ideal for non-local clusters
- Local cluster with SATA or solid-state storage

# Software quorum

- Sun cluster 3.2 update2 only
- No need quorum server in local cluster with non-SCSI capable storage

```
# cldev set -p default_fencing=nofencing d#
```

```
# clq add d#
```

```
# clq status
```

```
# clq show d#
```

# Quorum monitoring

- Introduced in cluster 3.2 update 2
- Periodically monitor quorum device path
- Unconfigure and reconfigure quorum device
- Communicate with syslog
- Cluster reconfiguration or *clq status* command force check

# Virtualization

## - Zone cluster

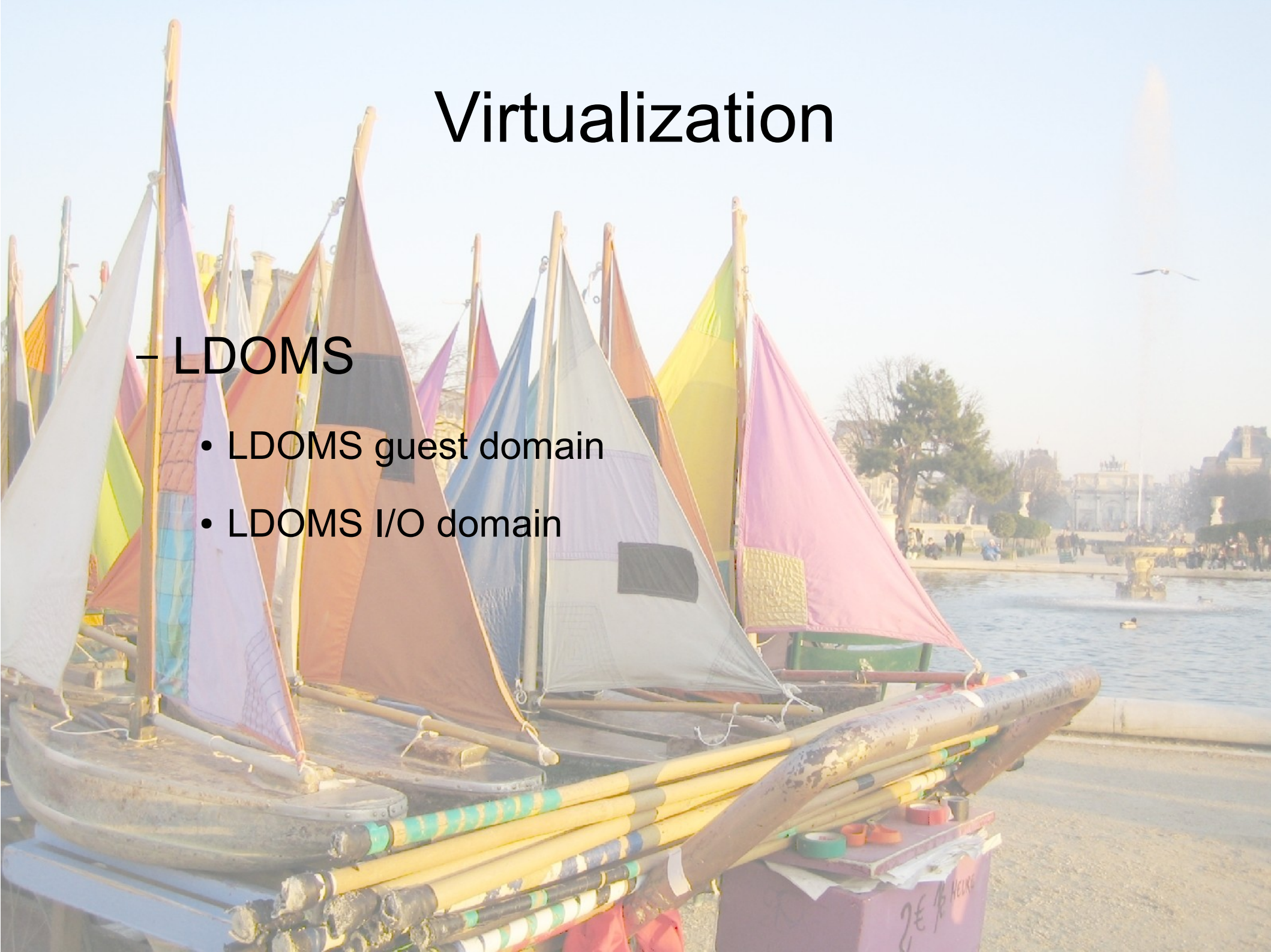
- Non-voting node
- Non-global zone with cluster brand
- Stored in CCR
- Create and configure by *clzonecluster* command



# Virtualization

## – LDOMS

- LDOMS guest domain
- LDOMS I/O domain



# ZFS boot support

- Can install on Solaris 10 u6 rpool
- /global/.devices/node@ on lofi on ZFS
- /global/.devices/node@ on lofi on UFS

