

Solaris Container 활용

The most advanced operating system on the planet

김성무, KSUN (kinkist@gmail.com)

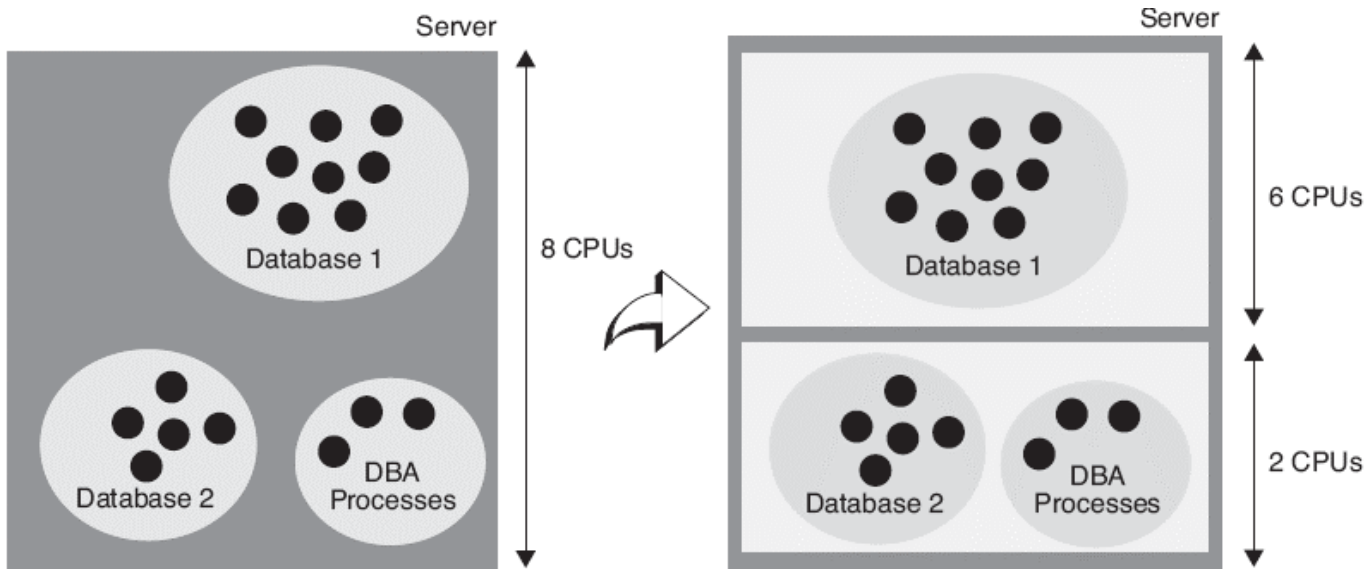
- IT infrastructures that can adapt change.
 - More High Performance

- Need to protect technology
- Same service levels at a lower price point

- Reducing IT infrastructure cost and improving end user service level management
 - > [Sun Solaris Container](#)

- Only Solaris System & Sharing Resource
- Concept is Virtualization, But Not Virtualization
- Like Chroot System
- But More Isolate
- But More Flexible
- Bundled in Solaris 10

- Zone
 - Container Management
- Resource Pool
 - Pool Resource Management



- One Step : Project Resource
- Two Step : Create Pool for Projected Resource
- One Step : Create Zone
- One Step : Binding Pool to Zone

■ Creating a New Resource Pool

1. Enable the resource pools feature

```
# pooladm -e
```

2. Save the Current Configuration to a file

```
# pooladm -s
```

3. Create a processor set

```
# poolcfg -c 'create pset http-pset (uint pset.min=1; uint pset.max=1)'
```

4. Create a resource pool for the processor set.

```
# poolcfg -c 'create pool http-pool'
```

5. Link the pool to the processor set

```
# poolcfg -c 'associate pool http-pool (pset http-pset)'
```

■ Creating Zone Configuration

1. Enter The Zone Configuratin

```
# zonecfg -z http-zone
```

2. Create a new zone

```
zonecfg:http-zone> create
```

3. Assign the Zone to file system

```
zonecfg:http-zone> set zonepath=/zones/http-zone
```

4. Decide boot configuration

```
zonecfg:my-zone> set autoboot=true
```

■ Creating Zone Configuration

5. Configure Networking

```
zonecfg:http-zone> add net
zonecfg:http-zone:net> set address=192.168.200.20
zonecfg:http-zone:net> set physical=e1000g0
zonecfg:http-zone:net> end
```

6. bind pool to zone

```
zonecfg:http-zone> set pool=email-pool
```

7. Write the in-memory configuration to stable memory

```
zonecfg:http-zone> commit
zonecfg:http-zone> exit (or ^D [Ctrl d])
```

■ Install Zone & Manage

- Install Zone

 - # zoneadm -z http-zone install

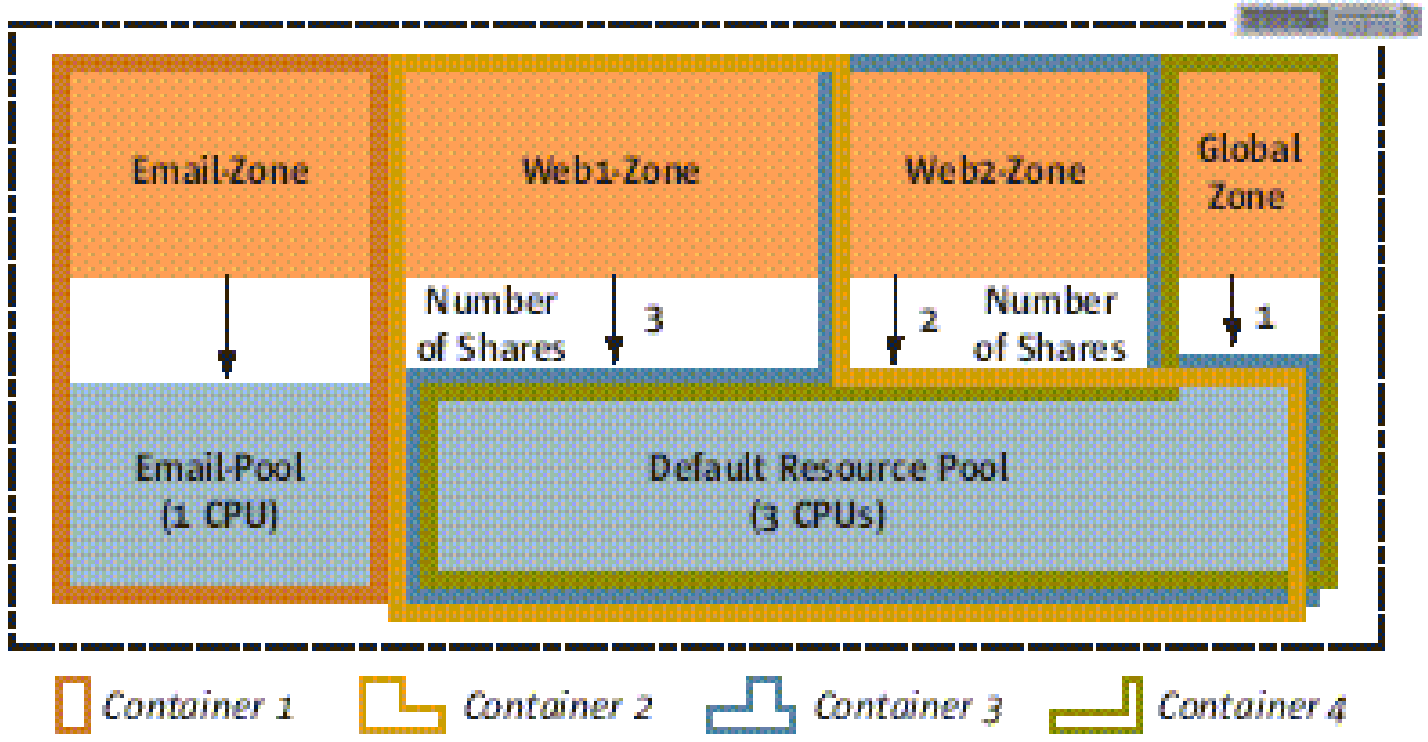
- Booting Installed Zone “http-zone”

 - # zoneadm -z http-zone boot

- Login to http-zone

 - # zlogin -C http-zone

■ How to Decide Resource for Zone!!



■ How to Decide Resource for Zone!!

A pool can optionally be associated with a scheduling class

- the Fair Share Scheduler (FSS)
- the Real Time (RT) scheduling class.

→ allowing the system to use different schedulers for different types of workloads..

“DEMO”

Thanks!!