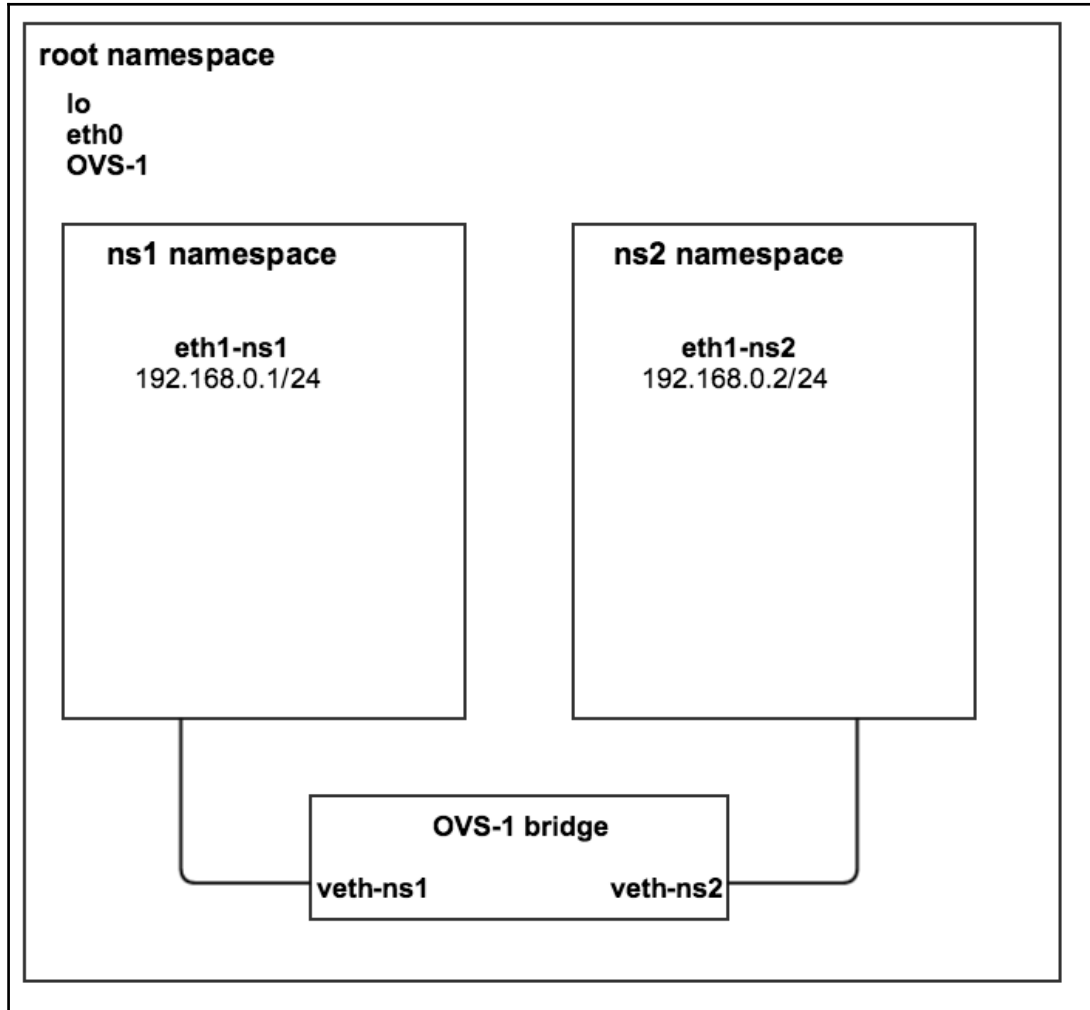
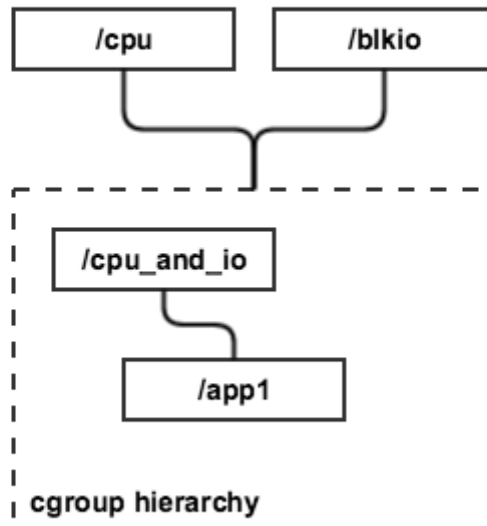


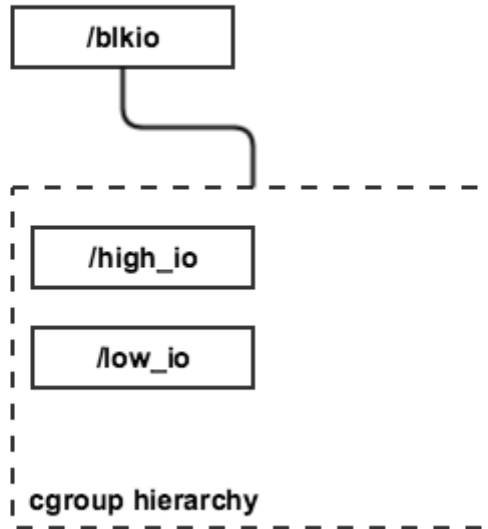
Chapter 1: Introduction to Linux Containers



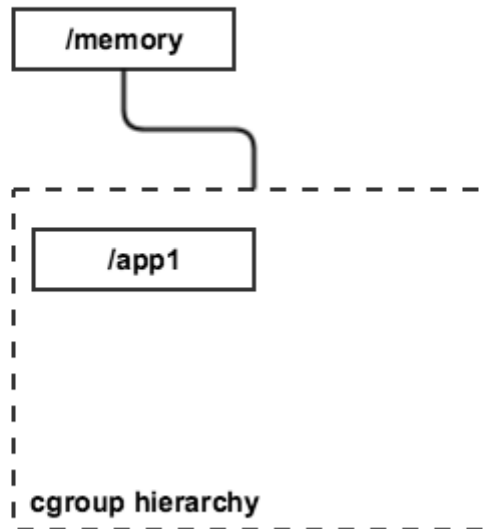
Virtual File System mounted at /cgroups



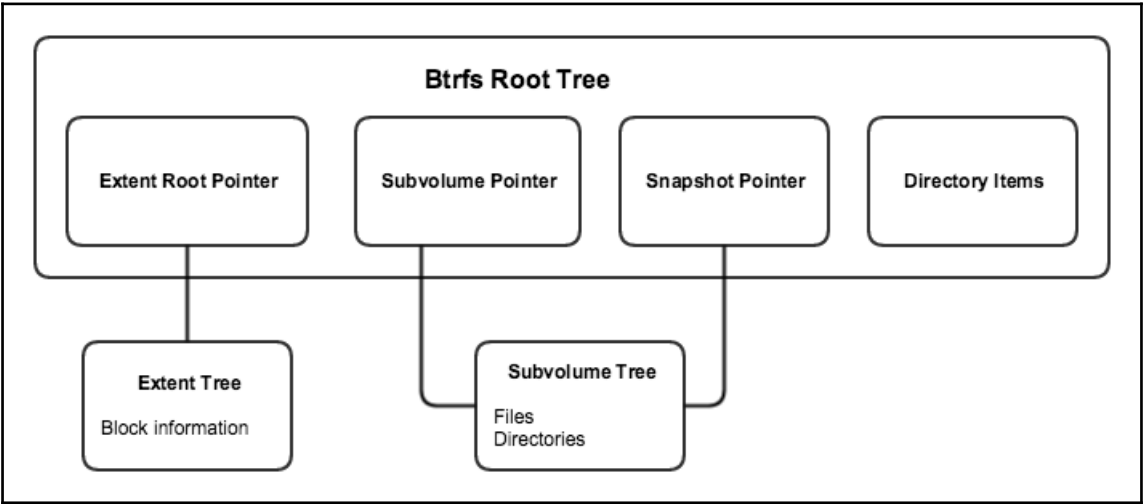
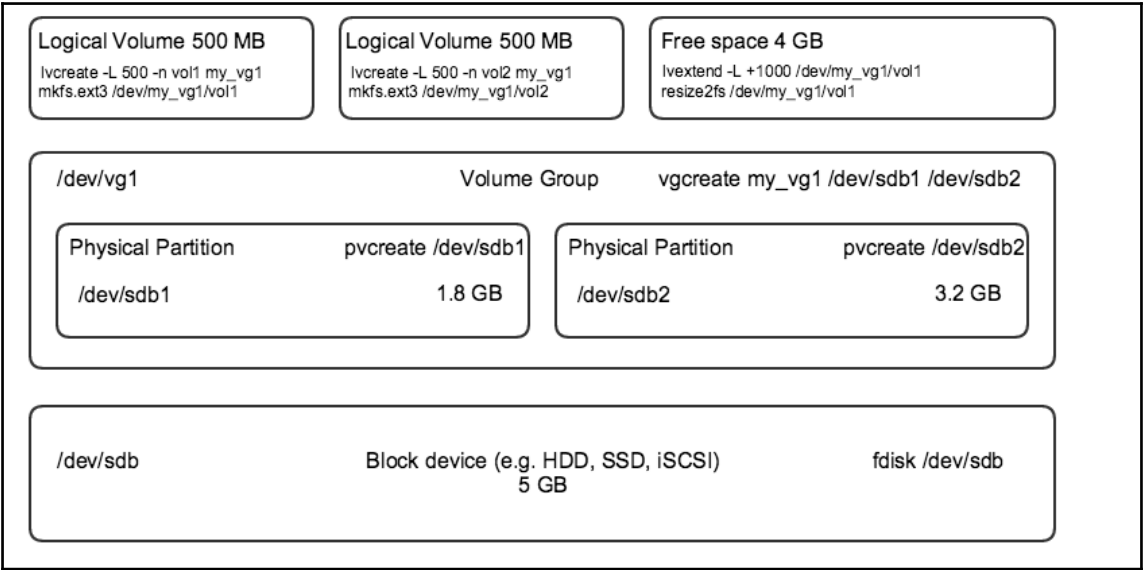
Virtual File System mounted at /cgroups

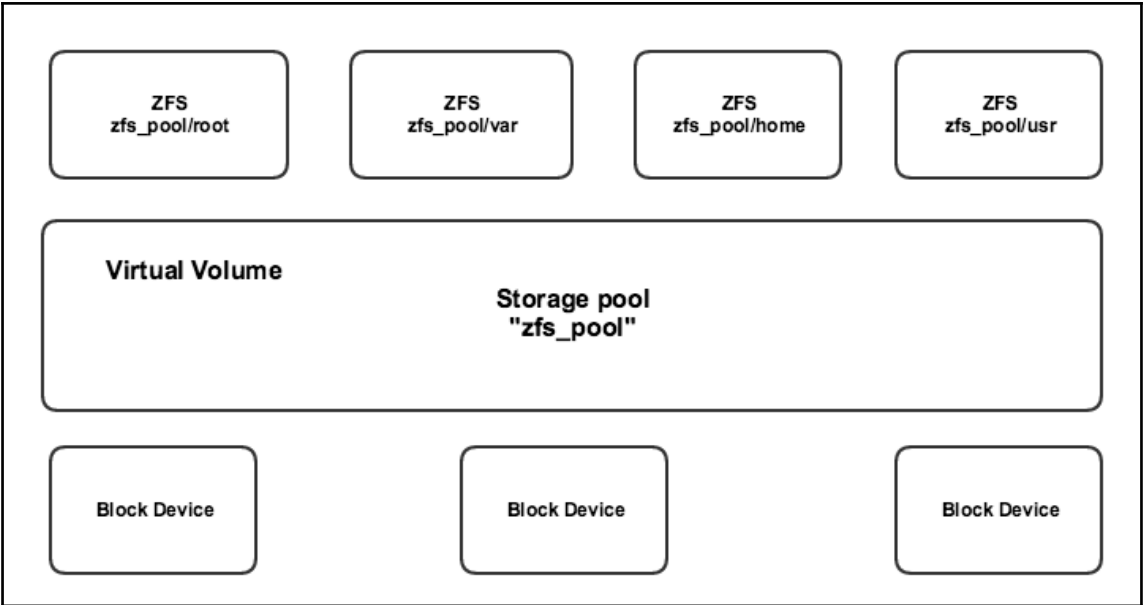


Virtual File System mounted at /cgroups



Chapter 3: Command-Line Operations Using Native and Libvirt Tools





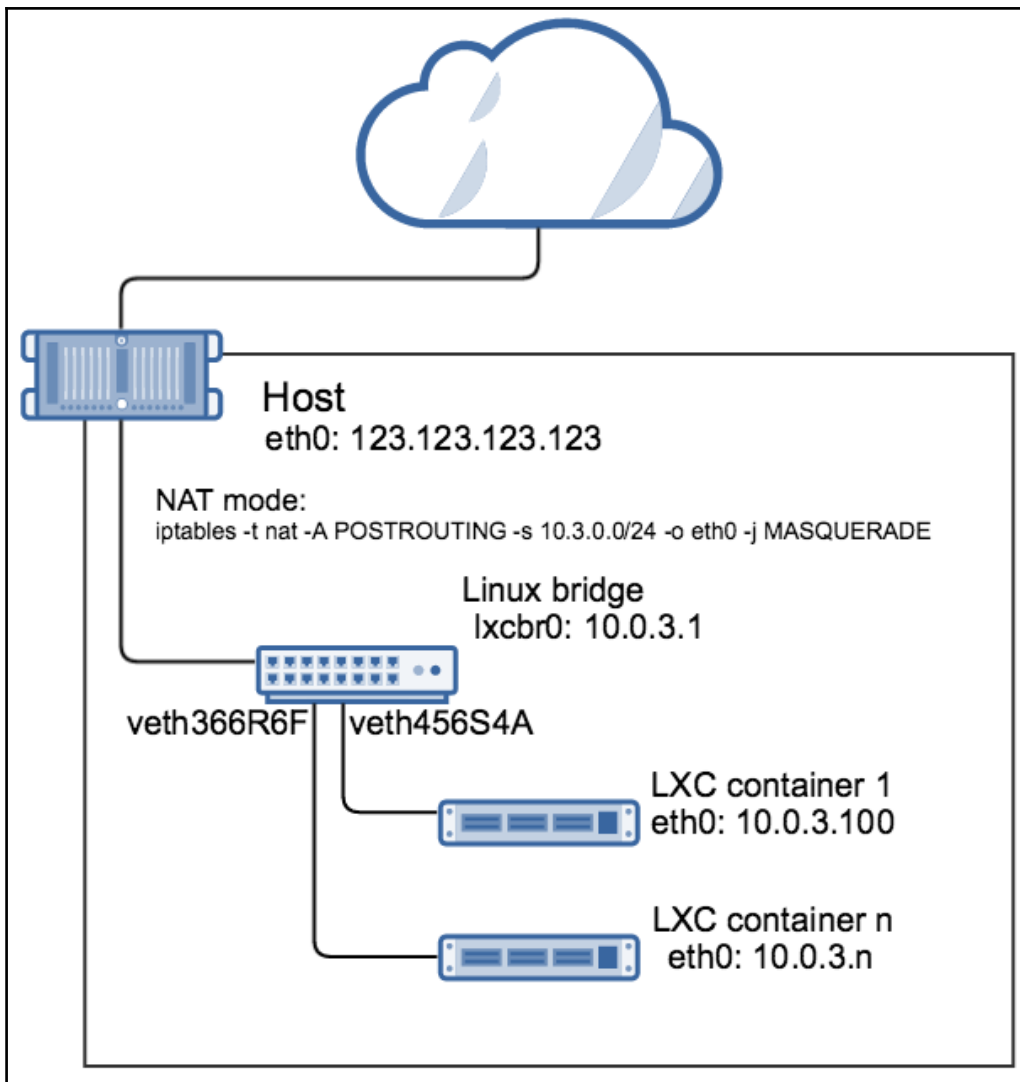
Chapter 5: Networking in LXC with the Linux Bridge and Open vSwitch

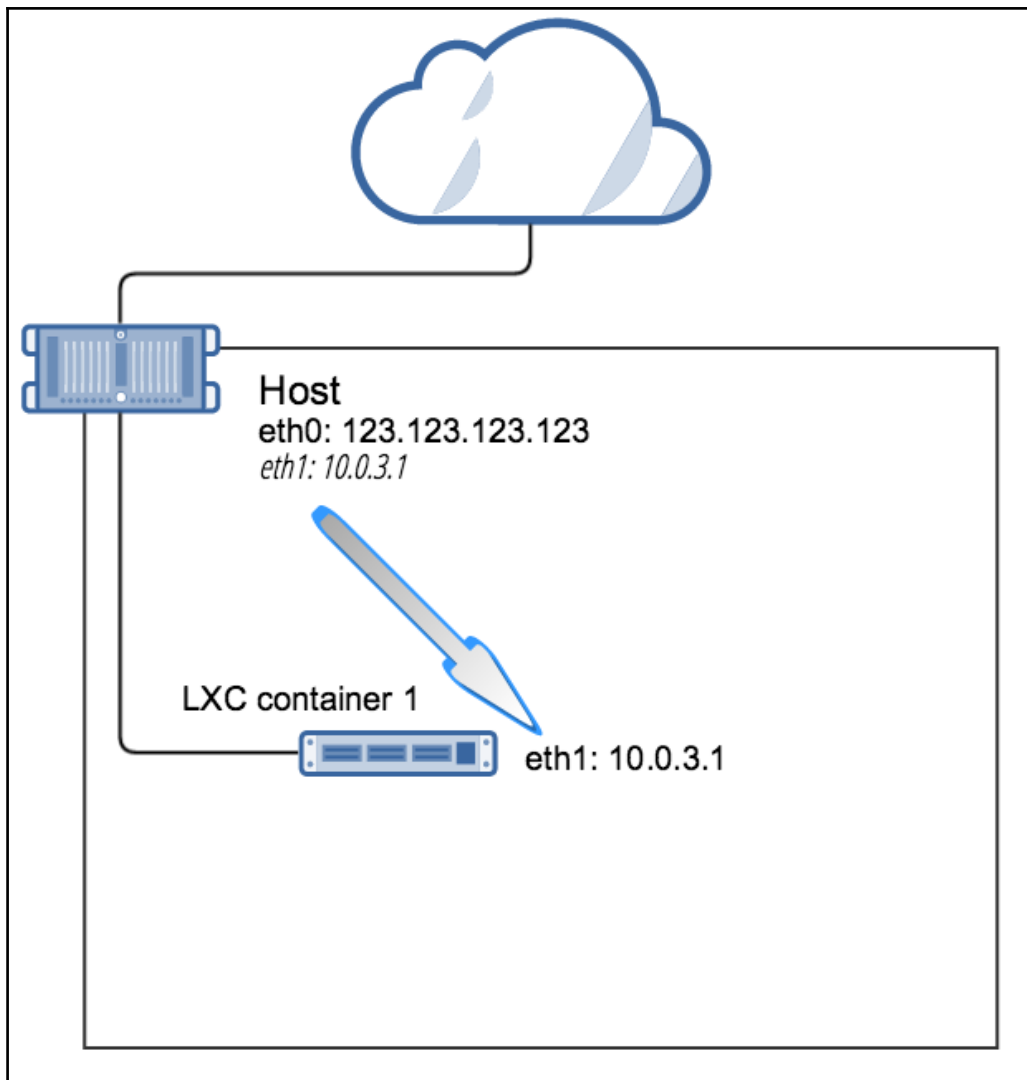
```
.config - Linux/x86 3.10.0-327.36.2.el7.x86_64 Kernel Configuration
+ Networking support + Networking options

Networking options
Arrow keys navigate the menu. <Enter> selects submenus --->. Highlighted letters are hotkeys. Pressing <Y> includes, <N>
excludes, <M> modularizes features. Press <Esc><Esc> to exit, <?> for Help, </> for Search. Legend: [*] built-in [ ]
excluded <M> module <> module capable

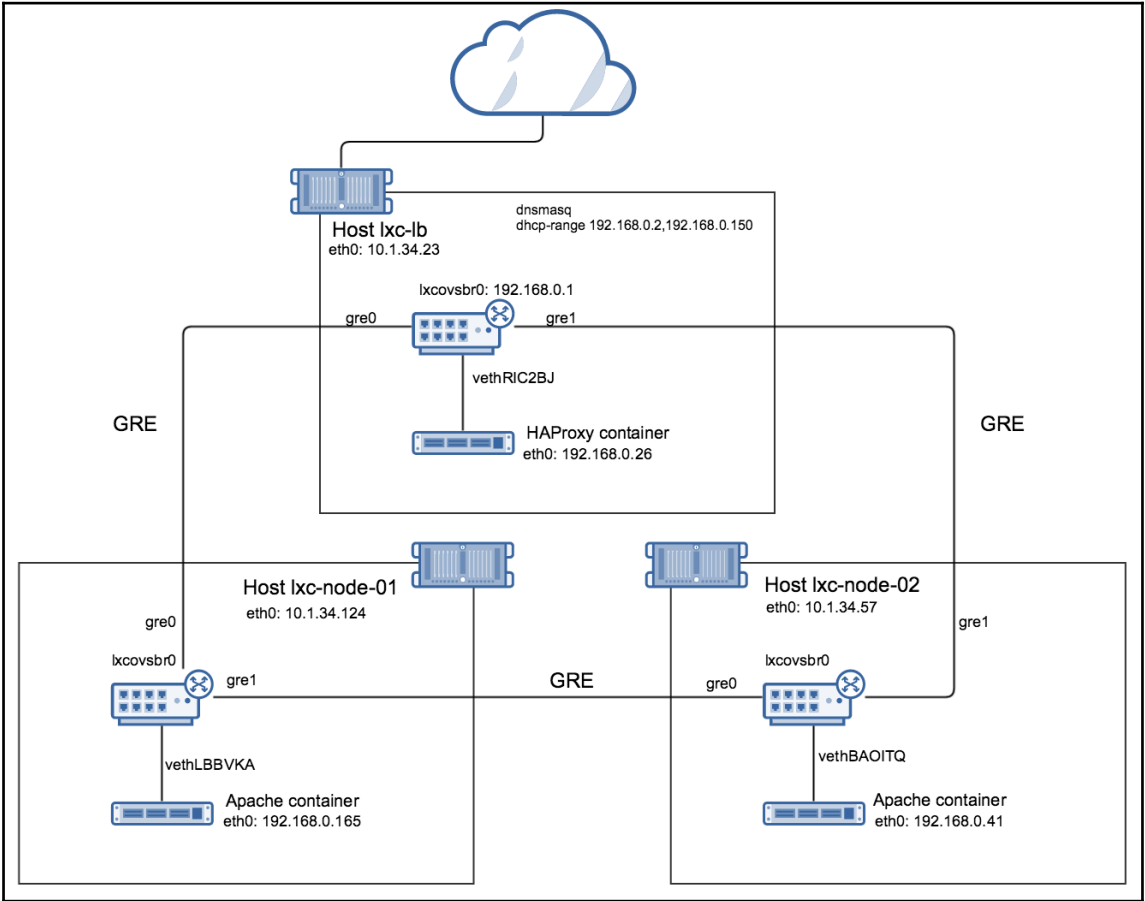
Virtual (secure) IP: tunneling
<> IP: Foo (IP protocols) over UDP
[ ] IP: FOU encapsulation of IP tunnels
<M> Generic Network Virtualization Encapsulation (Geneve)
<M> IP: AH transformation
<M> IP: ESP transformation
<M> IP: IPComp transformation
<M> IP: IPsec transport mode
<M> IP: IPsec tunnel mode
<M> IP: IPsec BEET mode
[*] Large Receive Offload (ipv4/tcp)
<M> INET: socket monitoring interface
<M> UDP: socket monitoring interface
[*] TCP: advanced congestion control --->
[*] TCP: MD5 Signature Option support (RFC2385)
<?> The IPv6 protocol --->
[*] NetLabel subsystem support
-* Security Marking
[*] Timestamping in PHY devices
[*] Network packet filtering framework (Netfilter) --->
<M> The DCCP Protocol --->
[*] The SCTP Protocol --->
<> The RDS Protocol
<> The TIPC Protocol --->
<M> Asynchronous Transfer Mode (ATM)
<M> Classical IP over ATM
[ ] Do NOT send ICMP if no neighbour
<M> LAN Emulation (LANE) support
<> Multi-Protocol Over ATM (MPOA) support
<M> RFC1483/2684 Bridged protocols
[ ] Per-VC IP filter kludge
<M> Layer Two Tunneling Protocol (L2TP) --->
<M> 802.1d Ethernet Bridging
[*] IGMP/MLD snooping
[*] VLAN filtering
<M> 802.1Q/802.1ad VLAN Support
[*] GVRP (GARP VLAN Registration Protocol) support
[*] MVRP (Multiple VLAN Registration Protocol) support
<> DECnet Support
<> ANSI/IEEE 802.2 LLC type 2 Support

[Select] < Exit > < Help > < Save > < Load >
```





Chapter 6: Clustering and Horizontal Scaling with LXC



Chapter 7: Monitoring and Backups in a Containerized World

Monit Service Manager

Monit is running on ubuntu with uptime, 15h 47m and monitoring:

System	Status	Load	CPU	Memory	Swap
ubuntu	Running	[0.00] [0.00] [0.00]	0.1%us, 0.1%sy, 0.0%wa	40.3% [806.1 MiB]	0.0% [0 B]

Program	Status	Output	Last started	Exit value
container_status	Status ok	no output	18 Nov 2016 15:03:24	0

Monit Service Manager

Monit is running on ubuntu with uptime, 15h 38m and monitoring:

System	Status	Load	CPU	Memory	Swap
ubuntu	Running	[0.00] [0.00] [0.00]	0.0%us, 0.1%sy, 0.0%wa	39.6% [791.7 MiB]	0.0% [0 B]

Program	Status	Output	Last started	Exit value
container_status	Status failed	no output	18 Nov 2016 14:54:40	1

uchima

CLIENTS

ALL DATACENTERS

BULK ACTIONS

SUBSCRIPTIONS

ALL STATUS

2 OF 2

Search

	Name	IP	Events			
	monitor_jac	10.0.3.2		LXC Containers	0.26.5	6 minutes ago
	ubuntu	127.0.0.1		LXC Containers	0.26.5	7 minutes ago

MONITOR_LXC

5 seconds ago

LXC Containers

Id

address

name

silenced

subscriptions

timestamp

version

LXC Containers/monitor_jac

10.0.3.2

monitor_jac

false

base, client:monitor_jac

2016-11-18 10:58:11

0.26.5

Check

memory_check

keepalive

Output

5 minutes ago

a few seconds ago

✓ CHECK_MEMORY_NO_AGENT

command

duration

executed

interval

issued

name

output

standalone

status

subscribers

type

history

check_memory_no_agent.sh -n monitor_lxc -w 943718400 -e 1048576000

0.005

2016-11-18 12:17:02

30

2016-11-18 12:17:02

check_memory_no_agent

Memory Usage OK at

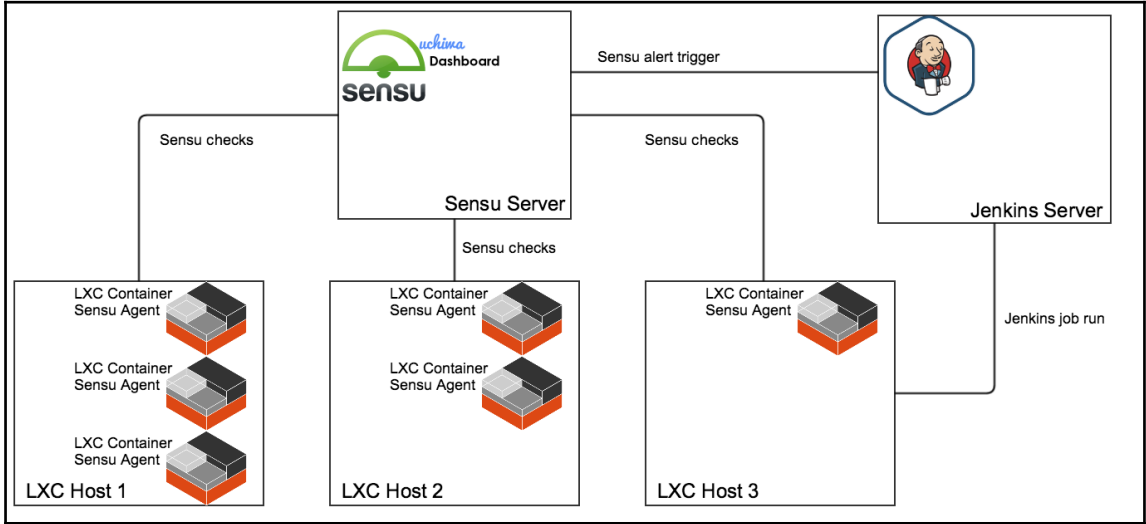
true

0

base

standard

0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0



Build Triggers

☒ Trigger builds remotely (e.g., from scripts) ?

Authentication Token

somesupersecrettoken

Use the following URL to trigger build remotely: JENKINS_URL/job/LXC%20Provision/build?token=TOKEN_NAME or /buildWithParameters?token=TOKEN_NAME
Optionally append &cause=Cause+Text to provide text that will be included in the recorded build cause.

☐ Build after other projects are built ?

☐ Build periodically ?

☐ Build when a change is pushed to GitHub ?

☐ Poll SCM ?

Build Environment

☐ Delete workspace before build starts

☐ Abort the build if it's stuck

☐ Add timestamps to the Console Output

☐ Use secret text(s) or file(s) ?

Build

Execute shell X ?

Command

```
set -x
echo "Building new LXC container"
sudo lxc-create --template ubuntu --name $(cat /dev/urandom | tr -cd 'a-z' | head -c 10)
```

[See the list of available environment variables](#)

Add build step

Save

Apply

Chapter 8: Using LXC with OpenStack

