

SETTING UP COCKPIT FOR SERVER AND PROCESS ADMINISTRATION IN CENTOS SERVER

Cockpit is a free open source system monitoring application which is considered a basic web based tool to monitor and configure basic services system health and monitor multiple server and their performances. it will let you start/stop services, generate diagnostic report,manage users,network,vlan, multiple servers with a graphical user interface .you can monitor multiple server with a single interface.its a very important tools for the beginner system administrator and lets you monitor almost everything of a system.

INSTALLING COCKPIT IN CENTOS:

1) Assign static ip address of your centos system

[you can find they way in the ip address section]

2) install “epel-release” repository in the system

=>yum install epel-release -y

3) update the repository

=>yum update -y

4) install cockpit

=>**yum install cockpit**

[you can directly fetch the source code from the github and compile too but in centos7 cockpit is in the epel-release so you need to do that]

5) enable the service in the boot time

=>**systemctl enable cockpit.socket**

6)Edit the configuration and disable the SSL

=>**vim /usr/lib/systemd/system/cockpit.service**

[Unit]

Description=Cockpit Web Service

Documentation=man:cockpit-ws(8)

Requires=cockpit.socket

[Service]

ExecStartPre=/usr/sbin/remotectl certificate --ensure --user=root --group=cockpit-ws --selinux-type=etc_t

ExecStart=/usr/libexec/cockpit-ws --no-tls

PermissionsStartOnly=true

User=cockpit-ws

Group=cockpit-ws

→ add '**--no-tls**' after the '**ExecStart=/usr/libexec/cockpit-ws**' line

=>**ExecStart=/usr/libexec/cockpit-ws --no-tls**

This will disable the SSL.

```
[Unit]
Description=Cockpit Web Service
Documentation=man:cockpit-ws(8)
Requires=cockpit.socket

[Service]
ExecStartPre=/usr/sbin/remotectl certificate --ensure --user=root --group=cockpit-ws --selinux-type=etc_t
ExecStart=/usr/libexec/cockpit-ws --no-tls
PermissionsStartOnly=true
User=cockpit-ws
Group=cockpit-ws
~
~
~
~
~
```

7) restart the service

=>systemctl restart cockpit.socket

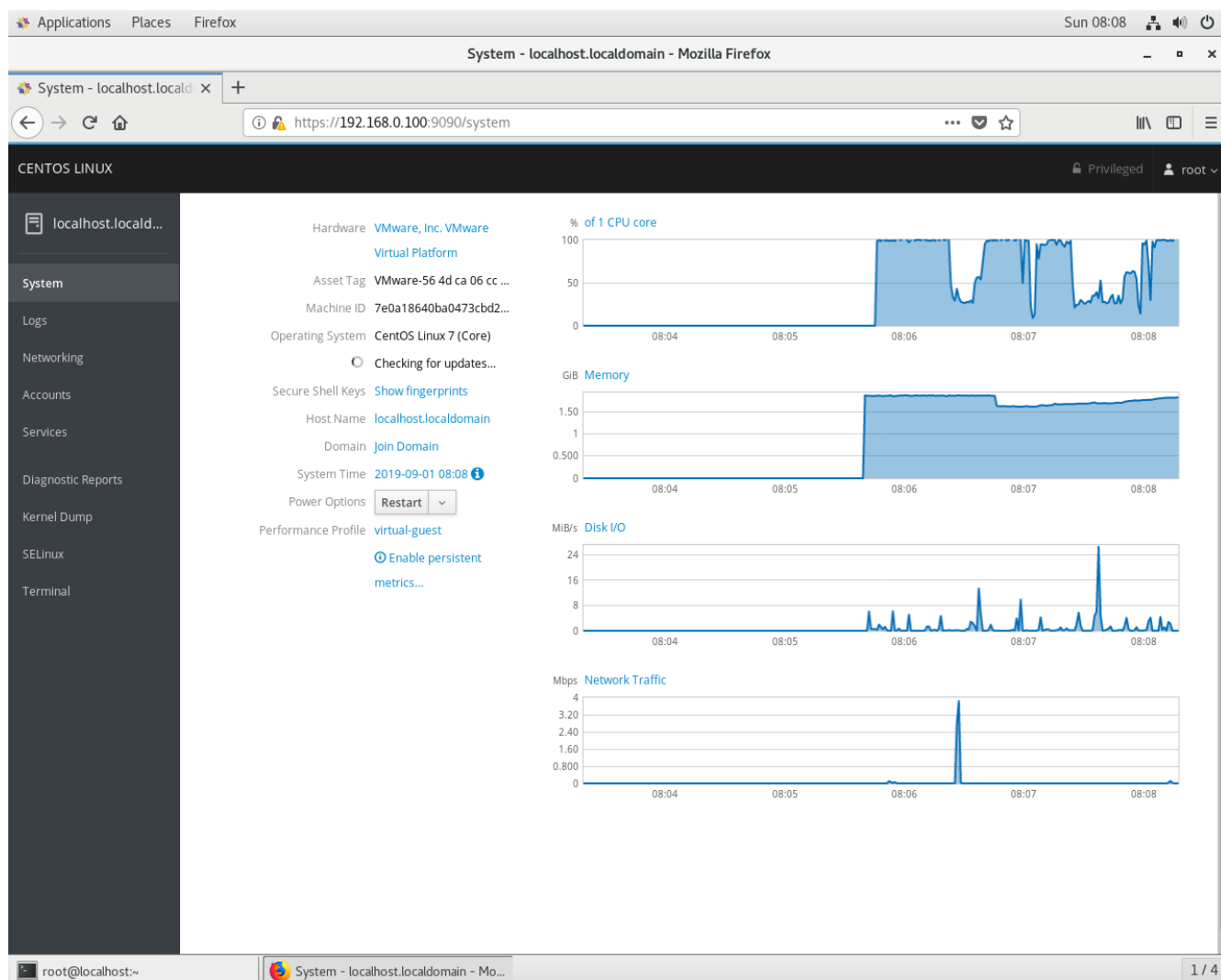
8)go to web browser and type <ip_address>:9090

[port:9090]

9)Enter the root user and password to login

10) This page you can monitor

- system memory
- Disk I/O
- network traffic
- CPU performance



11) This page you can monitor system logs

Logs - localhost.localdom x +

https://192.168.0.100:9090/system/logs

CENTOS LINUX Privileged root

localhost.locald...

September 1, 2019 Severity Error and above

System

Logs

Networking

Accounts

Services

Diagnostic Reports

Kernel Dump

SELinux

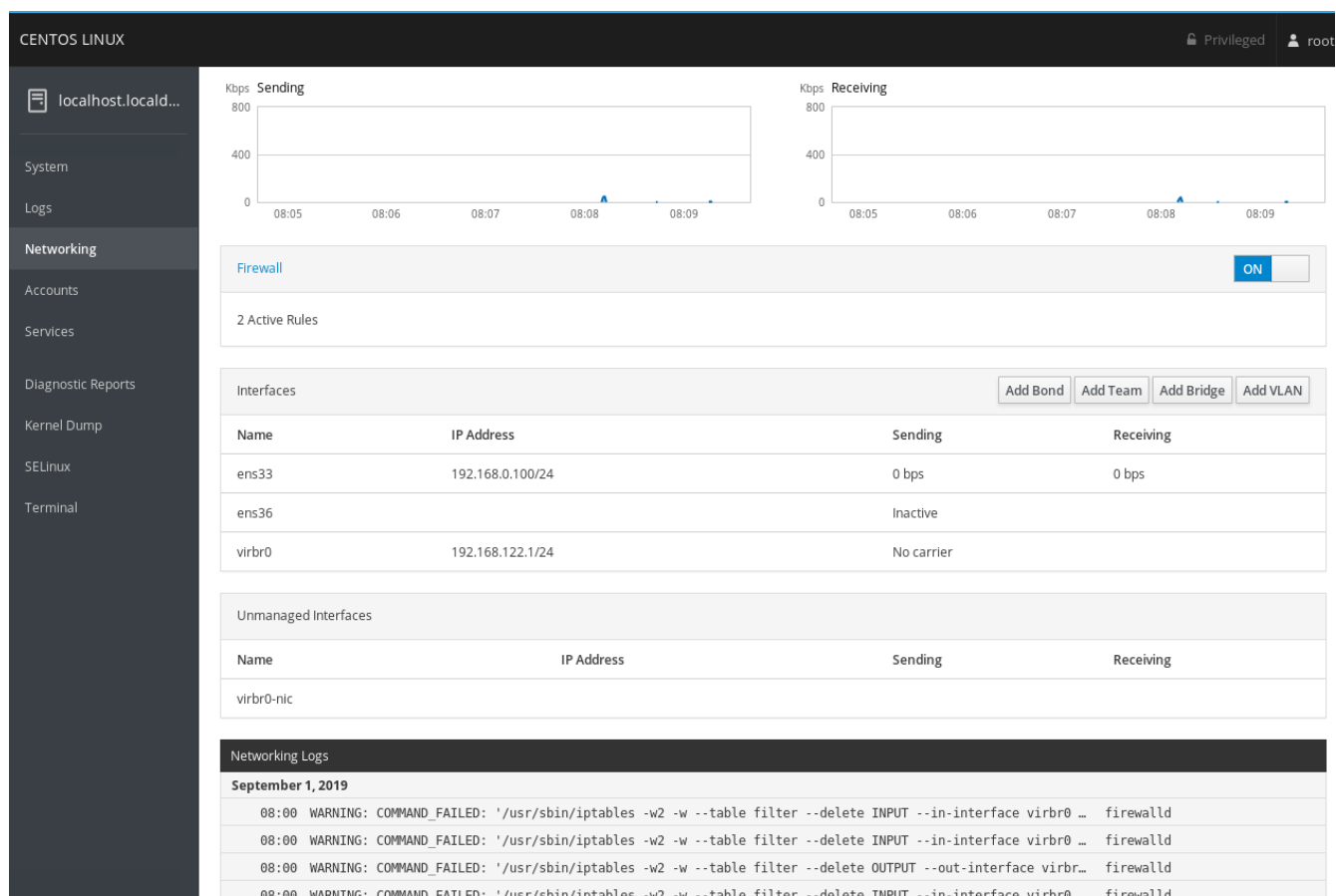
Terminal

September 1, 2019

07:57	Process 10641 (python2.7) of user 0 killed by signal 3 - ignoring (unsupported signal)	abrt-hook-ccpp
07:56	Failed to open the streaming device "/dev/virtio-ports/org.spice-space.stream.0": 2 - No such file or dir...	spice-streaming-agent
07:56	Cannot access vdaagent virtio channel /dev/virtio-ports/com.redhat.spice.0	spice-vdaagent
07:56	We were woken up with POLLOUT set -- however a subsequent snd_pcm_avail() returned 0 or another value < m...	pulseaudio
07:56	Most likely this is a bug in the ALSA driver 'snd_ens1371'. Please report this issue to the ALSA develope...	pulseaudio
07:56	ALSA woke us up to write new data to the device, but there was actually nothing to write.	pulseaudio
07:56	SELinux is preventing gdm-session-wor from create access on the directory gdm. For complete SELinux messa...	setroubleshoot
07:55	Failed to open the streaming device "/dev/virtio-ports/org.spice-space.stream.0": 2 - No such file or dir...	spice-streaming-agent
07:55	Cannot access vdaagent virtio channel /dev/virtio-ports/com.redhat.spice.0	spice-vdaagent
07:55	[alsa-sink-ES1371/1] alsa-sink.c: We were woken up with POLLOUT set -- however a subsequent snd_pcm_avail...	pulseaudio
07:55	[alsa-sink-ES1371/1] alsa-sink.c: Most likely this is a bug in the ALSA driver 'snd_ens1371'. Please repo...	pulseaudio
07:55	[alsa-sink-ES1371/1] alsa-sink.c: ALSA woke us up to write new data to the device, but there was actualy...	pulseaudio
13:55	imjournal: ignoring invalid state file [v8.24.0-34.el7]	rsyslogd
13:55	imjournal: fscanf on state file '/var/lib/rsyslog/imjournal.state' failed [v8.24.0-34.el7 try http://www...	rsyslogd
13:55	Failed to start Machine Check Exception Logging Daemon.	systemd
13:55	ERROR: AMD Processor family 22: mcelog does not support this processor. Please use the edac_mce_amd modul...	mcelog
13:54	piix4_smbus 0000:00:07.3: SMBus Host Controller not enabled!	kernel
13:54	sd 0:0:0:0: [sda] Assuming drive cache: write through	kernel

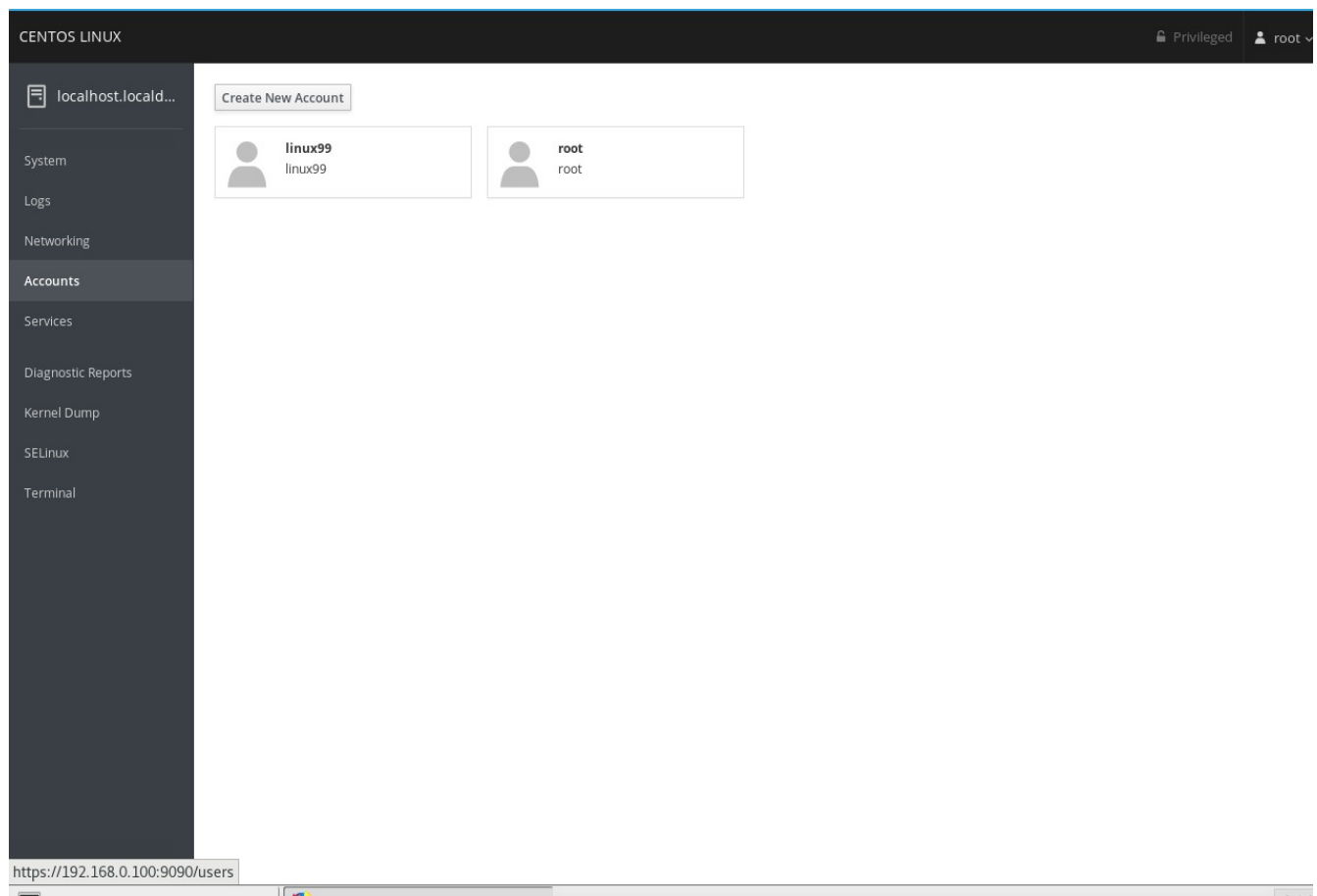
https://192.168.0.100:9090/system

12) This page you can monitor networking and firewall and network interface, you can add vlan, bridge and team



13)

You can also monitor the user .you can add or remove the user from this page.



14)
you can monitor and control all the service

CENTOS LINUX Privileged root

localhost.locald...

System

Logs

Networking

Accounts

Services

Diagnostic Reports

Kernel Dump

SELinux

Terminal

Targets

System Services

Sockets

Timers

Paths

Enabled		
Description	Id	State
Install ABRT coredump hook	abrt-ccpp.service	active (exited)
ABRT kernel log watcher	abrt-oops.service	active (running)
Harvest vmcores for ABRT	abrt-vmcore.service	inactive (dead)
ABRT Xorg log watcher	abrt-xorg.service	active (running)
ABRT Automated Bug Reporting Tool	abrttd.service	active (running)
Accounts Service	accounts-daemon.service	active (running)
Job spooling tools	atd.service	active (running)
Security Auditing Service	auditd.service	active (running)
autovt@.service Template	autovt@.service	
Avahi mDNS/DNS-SD Stack	avahi-daemon.service	active (running)
Bluetooth service	bluetooth.service	active (running)
NTP client/server	chronyd.service	active (running)
Command Scheduler	crond.service	active (running)
CUPS Printing Service	cups.service	active (running)
Activation of DM RAID sets	dmraid-activation.service	inactive (dead)
firewalld - dynamic firewall daemon	firewalld.service	active (running)
GNOME Display Manager	gdm.service	active (running)

<https://192.168.0.100:9090/system/services>
re Template
autovt@.service

15) Most Importantly you can generate diagnostic report of the whole system with that.

localhost.locald...

System

Logs

Networking

Accounts

Services

Diagnostic Reports

Kernel Dump

SELinux

Terminal

Create diagnostic report



The generated archive contains data considered sensitive and its content should be reviewed by the originating organization before being passed to any third party.

Generating report

Cancel