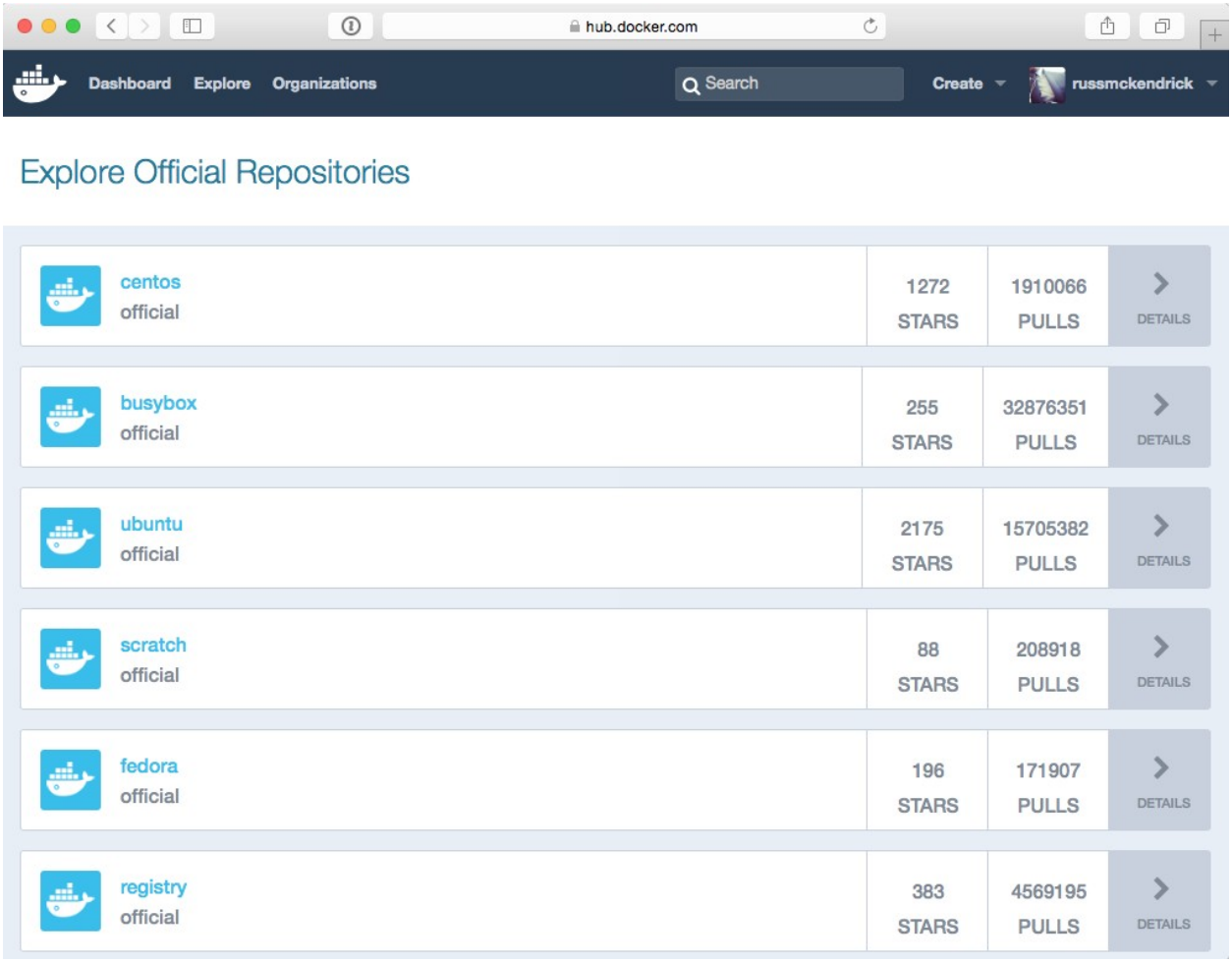
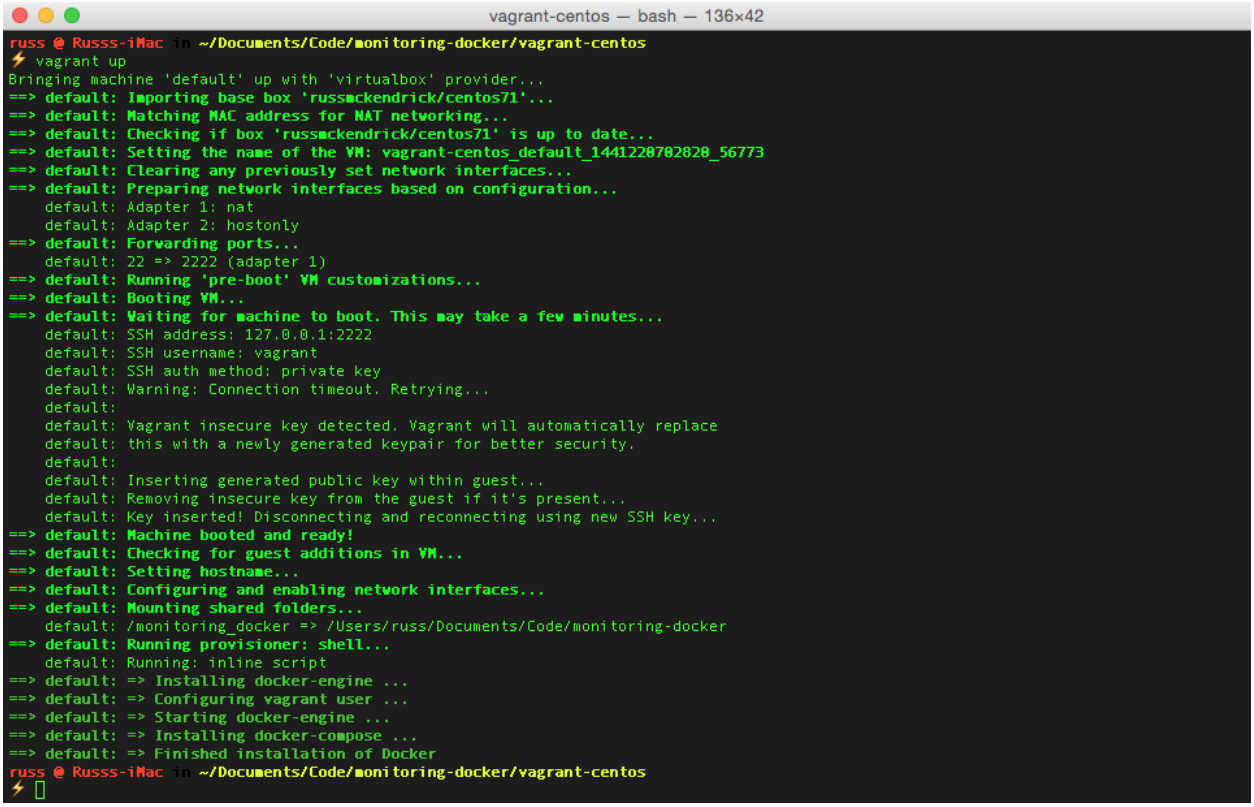
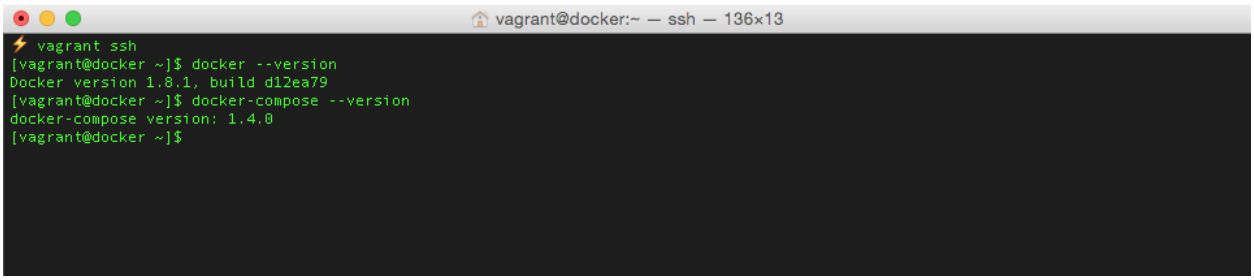
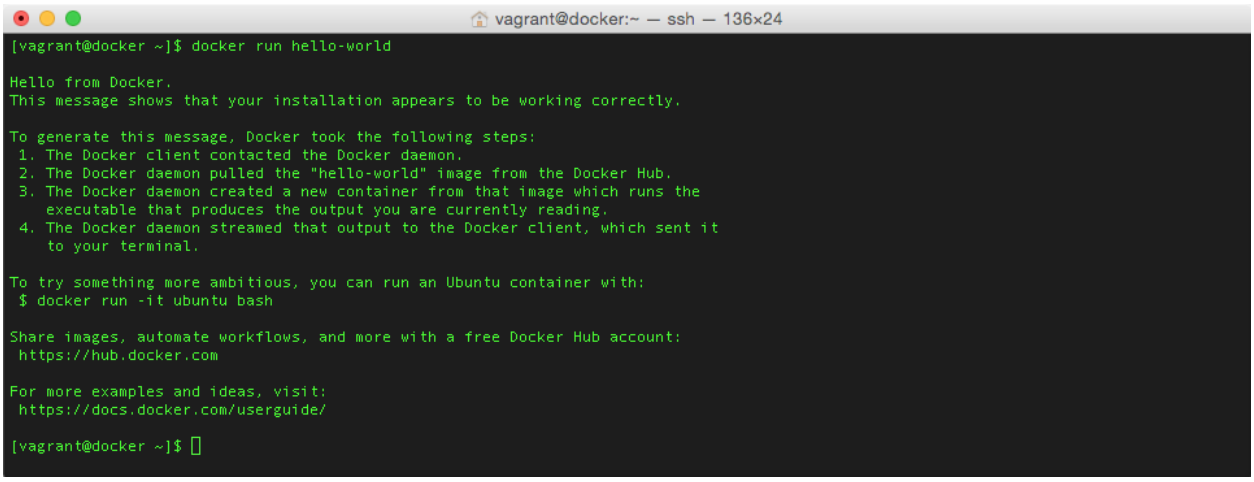
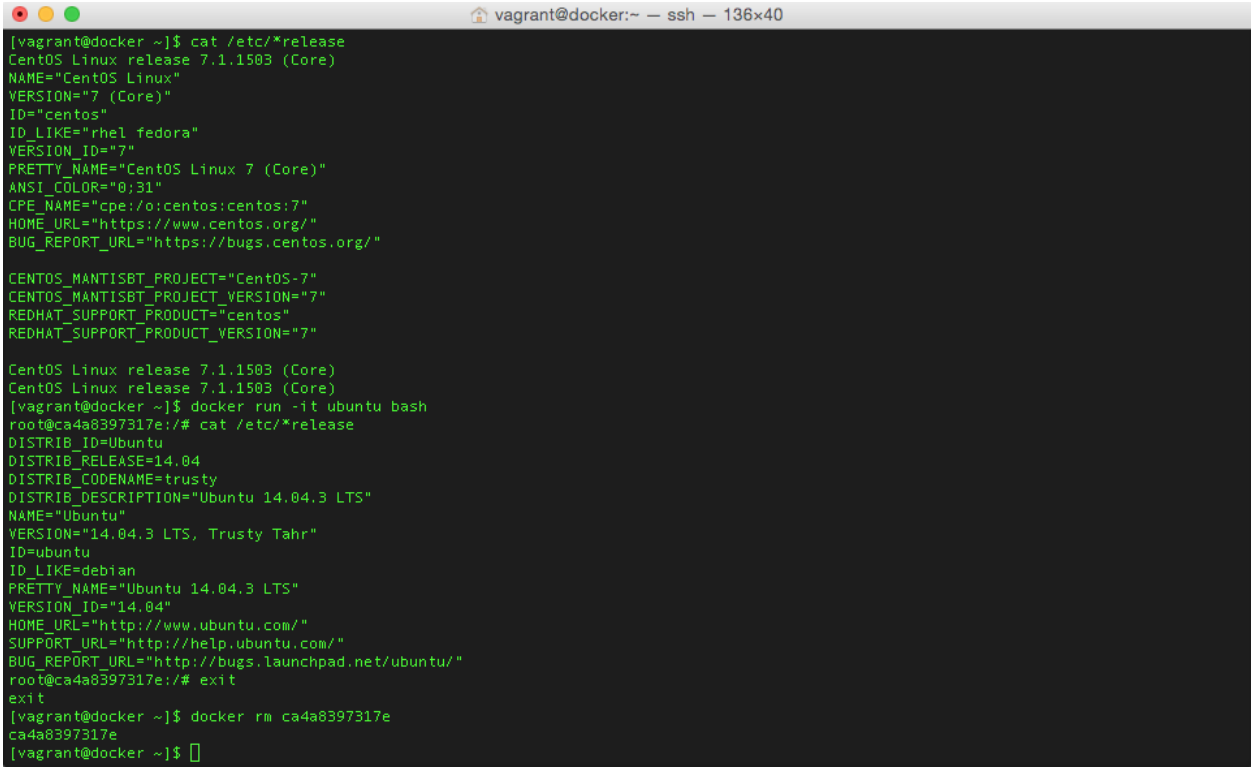
Chapter 1: Introduction to Docker Monitoring

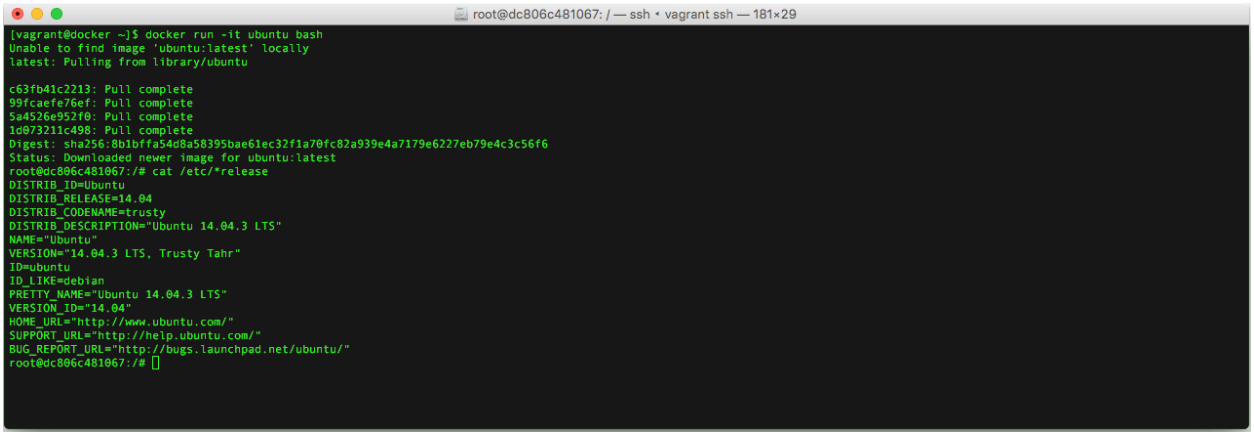


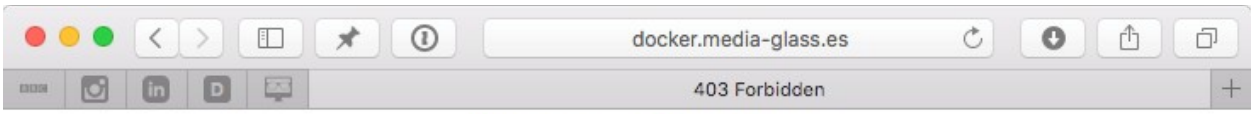

vagrant-centos — bash — 136×42
russ @ Russs-iMac in ~/Documents/Code/monitoring-docker/vagrant-centos
vagrant up
Bringing machine 'default' up with 'virtualbox' provider...
==> default: Importing base box 'russmckendrick/centos71'...
==> default: Matching MAC address for NAT networking...
==> default: Checking if box 'russmckendrick/centos71' is up to date...
==> default: Setting the name of the VM: vagrant-centos_default_1441220702828_56773
==> default: Clearing any previously set network interfaces...
==> default: Preparing network interfaces based on configuration...
default: Adapter 1: nat
default: Adapter 2: hostonly
==> default: Forwarding ports...
default: 22 => 2222 (adapter 1)
==> default: Running 'pre-boot' VM customizations...
==> default: Booting VM...
==> default: Waiting for machine to boot. This may take a few minutes...
default: SSH address: 127.0.0.1:2222
default: SSH username: vagrant
default: SSH auth method: private key
default: Warning: Connection timeout. Retrying...
default:
default: Vagrant insecure key detected. Vagrant will automatically replace
default: this with a newly generated keypair for better security.
default:
default: Inserting generated public key within guest...
default: Removing insecure key from the guest if it's present...
default: Key inserted! Disconnecting and reconnecting using new SSH key...
==> default: Machine booted and ready!
==> default: Checking for guest additions in VM...
==> default: Setting hostname...
==> default: Configuring and enabling network interfaces...
==> default: Mounting shared folders...
default: /monitoring_docker => /Users/russ/Documents/Code/monitoring-docker
==> default: Running provisioner: shell...
default: Running: inline script
==> default: => Installing docker-engine ...
==> default: => Configuring vagrant user ...
==> default: => Starting docker-engine ...
==> default: => Installing docker-compose ...
==> default: => Finished installation of Docker
russ @ Russs-iMac in ~/Documents/Code/monitoring-docker/vagrant-centos


vagrant@docker:~ — ssh — 136×13
vagrant ssh
[vagrant@docker ~]$ docker --version
Docker version 1.8.1, build d12ea79
[vagrant@docker ~]$ docker-compose --version
docker-compose version: 1.4.0
[vagrant@docker ~]$


vagrant@docker:~ — ssh — 136×24
[vagrant@docker ~]$ docker run hello-world
Hello from Docker.
This message shows that your installation appears to be working correctly.
To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
3. The Docker daemon created a new container from that image which runs the
executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent it
to your terminal.
To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash
Share images, automate workflows, and more with a free Docker Hub account:
https://hub.docker.com
For more examples and ideas, visit:
https://docs.docker.com/userguide/
[vagrant@docker ~]$


vagrant@docker:~ — ssh — 136×40
[vagrant@docker ~]$ cat /etc/*release
CentOS Linux release 7.1.1503 (Core)
NAME="CentOS Linux"
VERSION="7 (Core)"
ID="centos"
ID_LIKE="rhel fedora"
VERSION_ID="7"
PRETTY_NAME="CentOS Linux 7 (Core)"
ANSI_COLOR="0;31"
CPE_NAME="cpe:/o:centos:centos:7"
HOME_URL="https://www.centos.org/"
BUG_REPORT_URL="https://bugs.centos.org/"
CENTOS_MANTISBT_PROJECT="CentOS-7"
CENTOS_MANTISBT_PROJECT_VERSION="7"
REDHAT_SUPPORT_PRODUCT="centos"
REDHAT_SUPPORT_PRODUCT_VERSION="7"
CentOS Linux release 7.1.1503 (Core)
CentOS Linux release 7.1.1503 (Core)
[vagrant@docker ~]$ docker run -it ubuntu bash
root@ca4a8397317e:/# cat /etc/*release
DISTRIB_ID=Ubuntu
DISTRIB_RELEASE=14.04
DISTRIB_CODENAME=trusty
DISTRIB_DESCRIPTION="Ubuntu 14.04.3 LTS"
NAME="Ubuntu"
VERSION="14.04.3 LTS, Trusty Tahr"
ID=ubuntu
ID_LIKE=debian
PRETTY_NAME="Ubuntu 14.04.3 LTS"
VERSION_ID="14.04"
HOME_URL="http://www.ubuntu.com/"
SUPPORT_URL="http://help.ubuntu.com/"
BUG_REPORT_URL="http://bugs.launchpad.net/ubuntu/"
root@ca4a8397317e:/# exit
exit
[vagrant@docker ~]$ docker rm ca4a8397317e
ca4a8397317e
[vagrant@docker ~]$


root@dc806c481067: / — ssh • vagrant ssh — 181×29
[vagrant@docker ~]$ docker run -it ubuntu bash
Unable to find image 'ubuntu:latest' locally
latest: Pulling from library/ubuntu
c63fb41c2213: Pull complete
99fcaefe76ef: Pull complete
5a4526e952f0: Pull complete
1d073211c498: Pull complete
Digest: sha256:8b1bffa54d8a58395bae61ec32f1a70fc82a939e4a7179e6227eb79e4c3c56f6
Status: Downloaded newer image for ubuntu:latest
root@dc806c481067:/# cat /etc/*release
DISTRIB_ID=Ubuntu
DISTRIB_RELEASE=14.04
DISTRIB_CODENAME=trusty
DISTRIB_DESCRIPTION="Ubuntu 14.04.3 LTS"
NAME="Ubuntu"
VERSION="14.04.3 LTS, Trusty Tahr"
ID=ubuntu
ID_LIKE=debian
PRETTY_NAME="Ubuntu 14.04.3 LTS"
VERSION_ID="14.04"
HOME_URL="http://www.ubuntu.com/"
SUPPORT_URL="http://help.ubuntu.com/"
BUG_REPORT_URL="http://bugs.launchpad.net/ubuntu/"
root@dc806c481067:/#



403 Forbidden

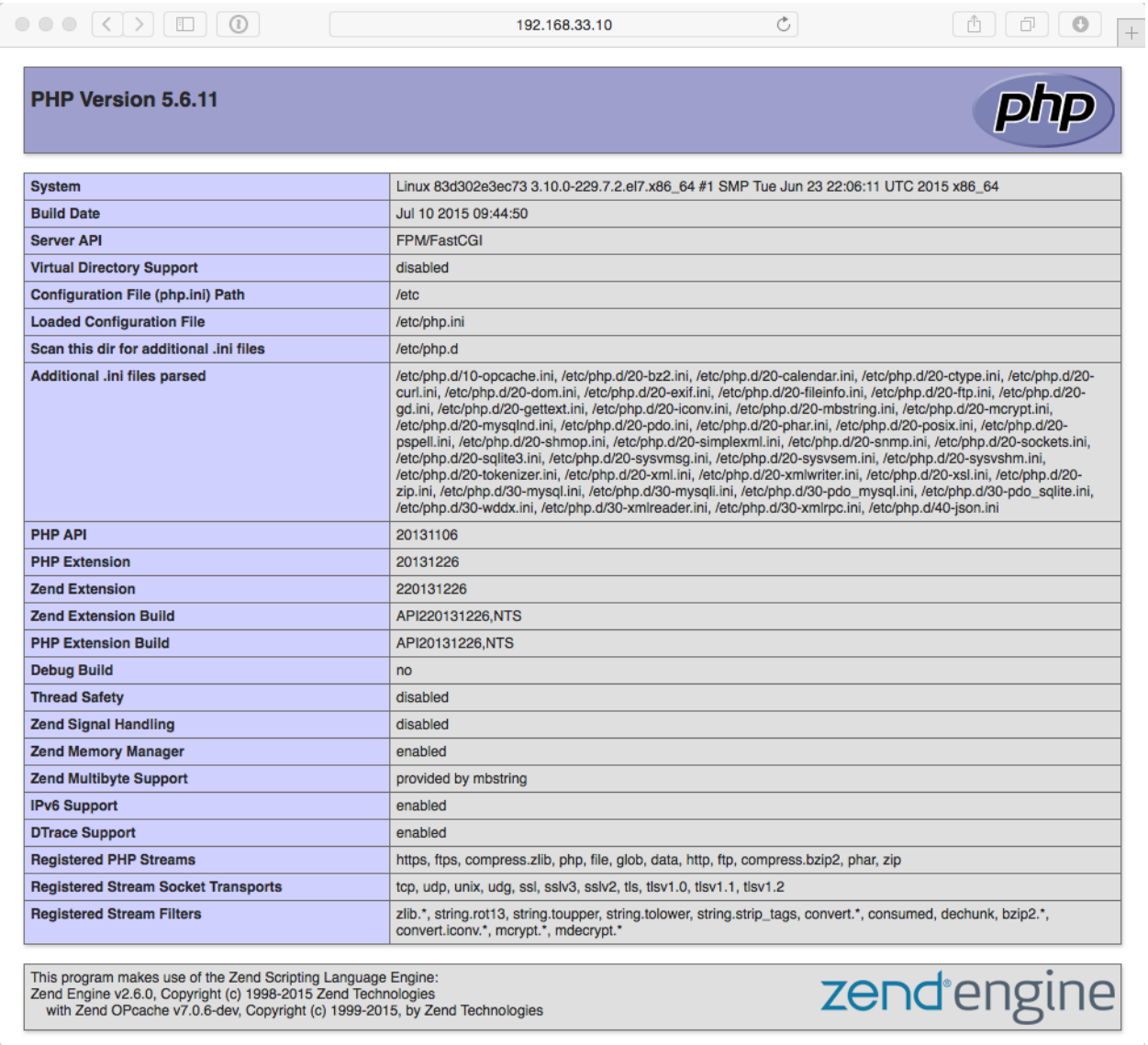
nginx/1.8.0

```
vagrant-centos — bash — 136×21
[vagrant@docker ~]$ exit
logout
Connection to 127.0.0.1 closed.
russ @ Russs-iMac in ~/Documents/Code/monitoring-docker/vagrant-centos
⚡ vagrant halt
==> default: Attempting graceful shutdown of VM...
russ @ Russs-iMac in ~/Documents/Code/monitoring-docker/vagrant-centos
⚡ vagrant status
Current machine states:

default                   poweroff (virtualbox)

The VM is powered off. To restart the VM, simply run `vagrant up`
russ @ Russs-iMac in ~/Documents/Code/monitoring-docker/vagrant-centos
⚡ vagrant destroy
    default: Are you sure you want to destroy the 'default' VM? [y/N] y
==> default: Destroying VM and associated drives...
==> default: Running cleanup tasks for 'shell' provisioner...
russ @ Russs-iMac in ~/Documents/Code/monitoring-docker/vagrant-centos
⚡
```

Chapter 2: Using the Built-in Tools



```
vagrant@centos7:/monitoring_docker/Chapter01/01-basic — ssh — 136×43
[vagrant@centos7 01-basic]$ docker logs 01basic_load
This is ApacheBench, Version 2.3 <$Revision: 1430300 $>
Copyright 1996 Adam Twiss, Zeus Technology Ltd, http://www.zeustech.net/
Licensed to The Apache Software Foundation, http://www.apache.org/

Benchmarking 01basic_web_1 (be patient)
Completed 1000 requests
Completed 2000 requests
Completed 3000 requests
Completed 4000 requests
Completed 5000 requests
Completed 6000 requests
Completed 7000 requests
Completed 8000 requests
Completed 9000 requests
Completed 10000 requests
Finished 10000 requests


Server Software:        nginx/1.8.0
Server Hostname:        01basic_web_1
Server Port:            80

Document Path:          /
Document Length:        90841 bytes

Concurrency Level:      5
Time taken for tests:   14.994 seconds
Complete requests:      10000
Failed requests:        9964
   (Connect: 0, Receive: 0, Length: 9964, Exceptions: 0)
Write errors:           0
Keep-Alive requests:    0
Total transferred:      910057704 bytes
HTML transferred:       908437704 bytes
Requests per second:    666.95 [#/sec] (mean)
Time per request:       7.497 [ms] (mean)
Time per request:       1.499 [ms] (mean, across all concurrent requests)
Transfer rate:          59274.09 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median   max
Connect:        0    0   0.1      0       2
```

```
vagrant@centos7:/monitoring_docker/Chapter01/02-multiple — ssh — 136×40
[vagrant@centos7 02-multiple]$ ps aux | grep nginx
root      4942  0.0  0.0  47512  1212 ?        Ss   19:33   0:00 nginx: master process nginx
vboxadd   4943  0.0  0.0  48048  1860 ?        S    19:33   0:00 nginx: worker process
root      5228  0.0  0.0  47512  1200 ?        Ss   19:37   0:00 nginx: master process nginx
vboxadd   5229  0.0  0.0  48048  1852 ?        S    19:37   0:00 nginx: worker process
root      5370  0.0  0.0  47512  1208 ?        Ss   19:37   0:00 nginx: master process nginx
vboxadd   5371  0.0  0.0  48048  1856 ?        S    19:37   0:00 nginx: worker process
root      5526  0.0  0.0  47512  1208 ?        Ss   19:37   0:00 nginx: master process nginx
vboxadd   5527  0.0  0.0  48048  1856 ?        S    19:37   0:00 nginx: worker process
root      5611  0.0  0.0  47512  1204 ?        Ss   19:37   0:00 nginx: master process nginx
vboxadd   5612  0.0  0.0  48048  1856 ?        S    19:37   0:00 nginx: worker process
root      6466  0.0  0.0  47512  1200 ?        Ss   19:44   0:00 nginx: master process nginx
vboxadd   6467  0.0  0.0  48048  1852 ?        S    19:44   0:00 nginx: worker process
root      6867  0.0  0.0  47512  1204 ?        Ss   19:44   0:00 nginx: master process nginx
vboxadd   6868  0.0  0.0  48048  1852 ?        S    19:44   0:00 nginx: worker process
root      6879  0.0  0.0  47512  1208 ?        Ss   19:44   0:00 nginx: master process nginx
vboxadd   6881  0.0  0.0  48048  1856 ?        S    19:44   0:00 nginx: worker process
root      6962  0.0  0.0  47512  1208 ?        Ss   19:44   0:00 nginx: master process nginx
vboxadd   6963  0.0  0.0  48048  1856 ?        S    19:44   0:00 nginx: worker process
root      6974  0.0  0.0  47512  1212 ?        Ss   19:44   0:00 nginx: master process nginx
vboxadd   6975  0.0  0.0  48048  1860 ?        S    19:44   0:00 nginx: worker process
root      7658  0.0  0.1  47508  3456 ?        S    19:47   0:00 nginx
root      7659  0.0  0.1  47508  3452 ?        S    19:47   0:00 nginx
root      7660  0.0  0.1  47508  3448 ?        S    19:47   0:00 nginx
root      7661  0.0  0.1  47508  3452 ?        S    19:47   0:00 nginx
root      7662  0.0  0.1  47508  3448 ?        S    19:47   0:00 nginx
root      7663  0.0  0.1  47508  3448 ?        S    19:47   0:00 nginx
vagrant   7665  0.0  0.0 112644   960 pts/0    R+   19:47   0:00 grep --color=auto nginx
[vagrant@centos7 02-multiple]$
```

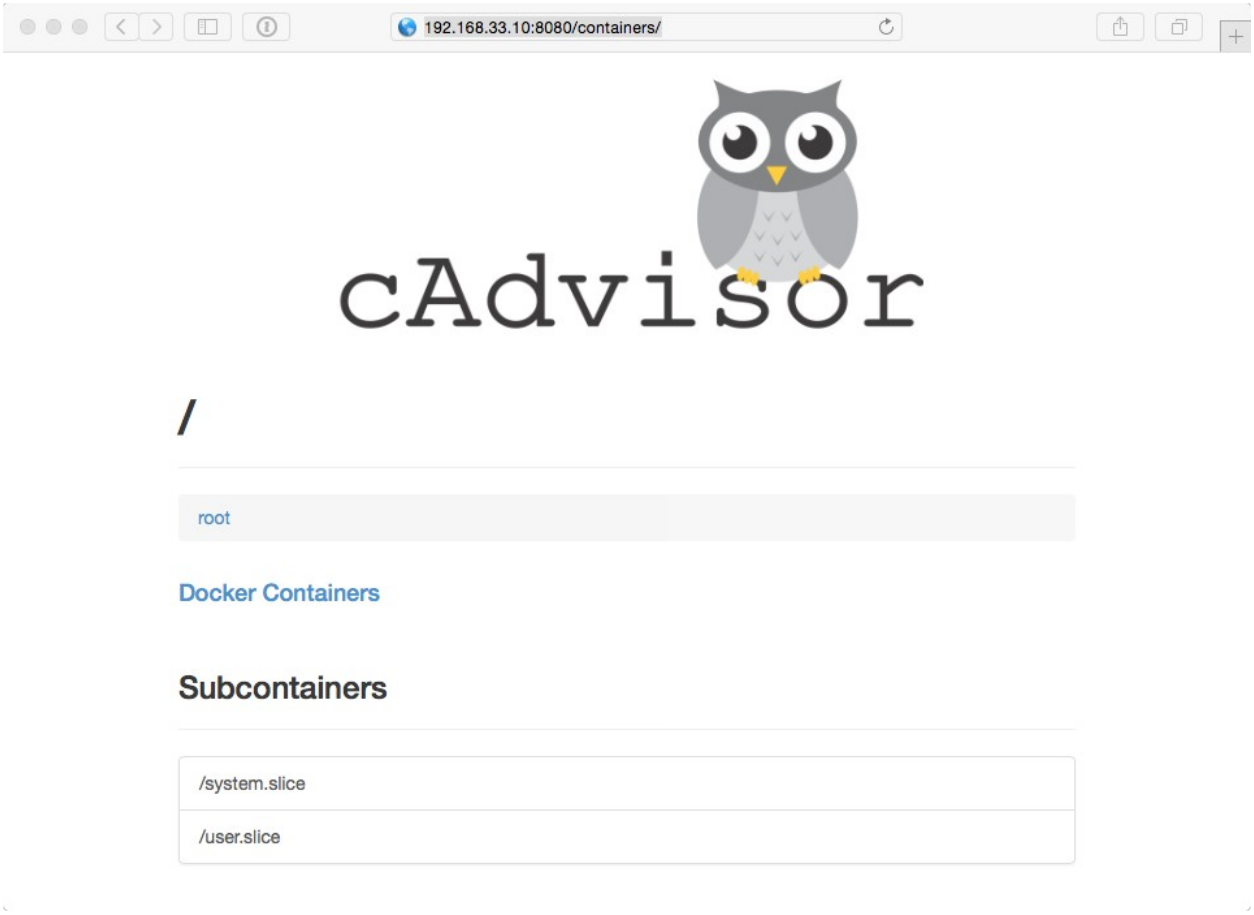
vagrant@centos7:/monitoring_docker/Chapter01/02-multiple — ssh — 136×40

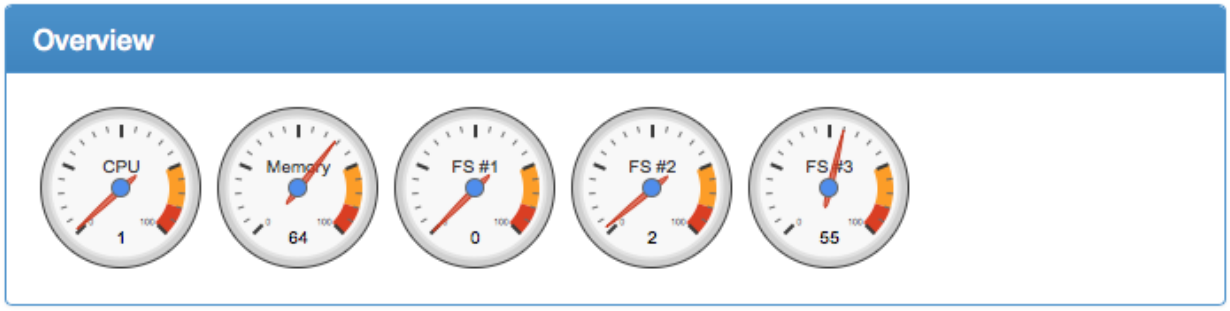
```
[vagrant@centos7 02-multiple]$ docker-compose ps
      Name              Command          State           Ports
-------------------------------------------------------------------------
02multiple_web_1   /usr/local/bin/run   Up      0.0.0.0:32772->80/tcp
02multiple_web_2   /usr/local/bin/run   Up      0.0.0.0:32773->80/tcp
02multiple_web_3   /usr/local/bin/run   Up      0.0.0.0:32774->80/tcp
02multiple_web_4   /usr/local/bin/run   Up      0.0.0.0:32775->80/tcp
02multiple_web_5   /usr/local/bin/run   Up      0.0.0.0:32776->80/tcp
[vagrant@centos7 02-multiple]$ docker top 02multiple_web_3
UID                 PID                 PPID                C                   STIME               TTY                 TIME
    CMD
root                6749                4412                0                   19:44               ?                   00:00:00
    /usr/bin/python /usr/bin/supervisord -n
root                6877                6749                0                   19:44               ?                   00:00:00
    php-fpm: master process (/etc/php-fpm.conf)
root                6879                6749                0                   19:44               ?                   00:00:00
    nginx: master process nginx
vboxadd             6881                6879                0                   19:44               ?                   00:00:00
    nginx: worker process
666                 6900                6877                0                   19:44               ?                   00:00:00
    php-fpm: pool www
666                 6901                6877                0                   19:44               ?                   00:00:00
    php-fpm: pool www
666                 6902                6877                0                   19:44               ?                   00:00:00
    php-fpm: pool www
666                 6903                6877                0                   19:44               ?                   00:00:00
    php-fpm: pool www
666                 6904                6877                0                   19:44               ?                   00:00:00
    php-fpm: pool www
root                6955                6749                0                   19:44               ?                   00:00:00
    /usr/libexec/postfix/master -w
postfix             6959                6955                0                   19:44               ?                   00:00:00
    pickup -l -t unix -u
postfix             6960                6955                0                   19:44               ?                   00:00:00
    qmgr -l -t unix -u
root                8945                6749                0                   19:54               ?                   00:00:00
    nginx
[vagrant@centos7 02-multiple]$
```

vagrant@centos7:/monitoring_docker/Chapter01/02-multiple — ssh — 136×40

```
[vagrant@centos7 02-multiple]$ docker exec -t -i 02multiple_web_3 bash
[root@31eb3b9c9217 /]# ps aux
USER       PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root         1  0.1  0.6 115252 12672 ?        Ss   18:44   0:00 /usr/bin/python /usr/bin/supervisord -n
root        16  0.0  1.3 377896 25244 ?        S    18:44   0:00 php-fpm: master process (/etc/php-fpm.conf)
root        18  0.0  0.0  47512  1208 ?        Ss   18:44   0:00 nginx: master process nginx
nginx       20  0.0  0.0  48048  1856 ?        S    18:44   0:00 nginx: worker process
webserv+    39  0.0  0.3 377896  6984 ?        S    18:44   0:00 php-fpm: pool www
webserv+    40  0.0  0.3 377896  6984 ?        S    18:44   0:00 php-fpm: pool www
webserv+    41  0.0  0.3 377896  6984 ?        S    18:44   0:00 php-fpm: pool www
webserv+    42  0.0  0.3 377896  6984 ?        S    18:44   0:00 php-fpm: pool www
webserv+    43  0.0  0.3 377896  6988 ?        S    18:44   0:00 php-fpm: pool www
root        94  0.0  0.1  91084  2084 ?        Ss   18:44   0:00 /usr/libexec/postfix/master -w
postfix     95  0.0  0.2  91188  3888 ?        S    18:44   0:00 pickup -l -t unix -u
postfix     96  0.0  0.2  91256  3912 ?        S    18:44   0:00 qmgr -l -t unix -u
root       359  0.2  0.1  13340  1880 ?        Ss   18:57   0:00 bash
root       377  0.0  0.0  21364  1376 ?        R+   18:58   0:00 ps aux
[root@31eb3b9c9217 /]# exit
exit
[vagrant@centos7 02-multiple]$
```

Chapter 3: Advanced Container Resource Analysis





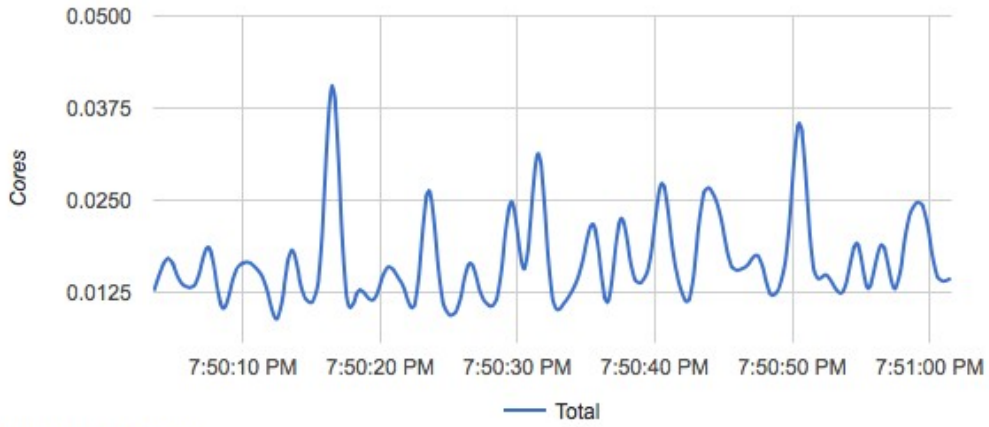
Processes

User	PID	PPID	Start Time	CPU %	MEM %	RSS	Virtual Size	Status	Running T
root	4807	4411	19:42	1.20	1.30	25.38 KiB	359.63 KiB	Ssl	00:00
root	4424	2	19:41	0.50	0.00	0.00 B	0.00 B	S<	00:00
root	6	2	19:40	0.20	0.00	0.00 B	0.00 B	S	00:00
root	4411	1	19:41	0.20	1.50	27.52 KiB	654.76 KiB	Ssl	00:00
root	1	0	19:40	0.10	0.20	3.83 KiB	52.89 KiB	Ss	00:00
root	47	2	19:40	0.10	0.00	0.00 B	0.00 B	S	00:00
root	2	0	19:40	0.00	0.00	0.00 B	0.00 B	S	00:00
root	20	2	19:40	0.00	0.00	0.00 B	0.00 B	S<	00:00
root	21	2	19:40	0.00	0.00	0.00 B	0.00 B	S	00:00
root	22	2	19:40	0.00	0.00	0.00 B	0.00 B	S<	00:00
root	23	2	19:40	0.00	0.00	0.00 B	0.00 B	S<	00:00

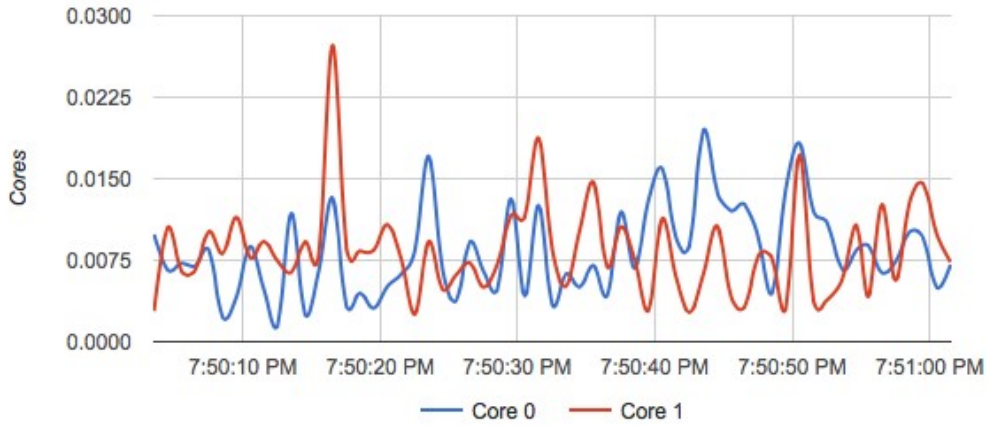
◀ ▶ 1 2 3 4

CPU

Total Usage

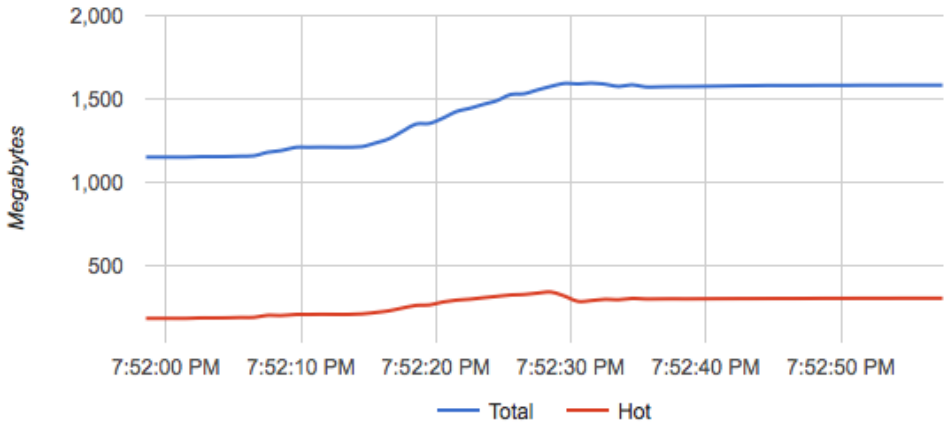


Usage per Core



Memory

Total Usage



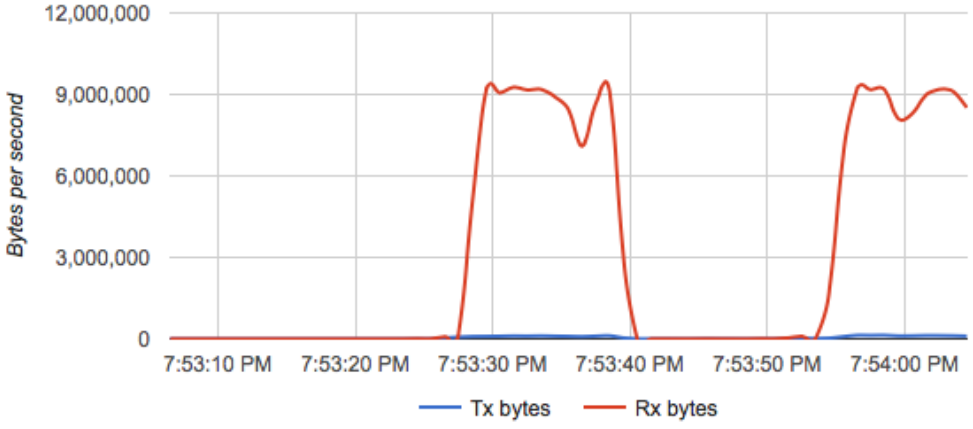
Usage Breakdown

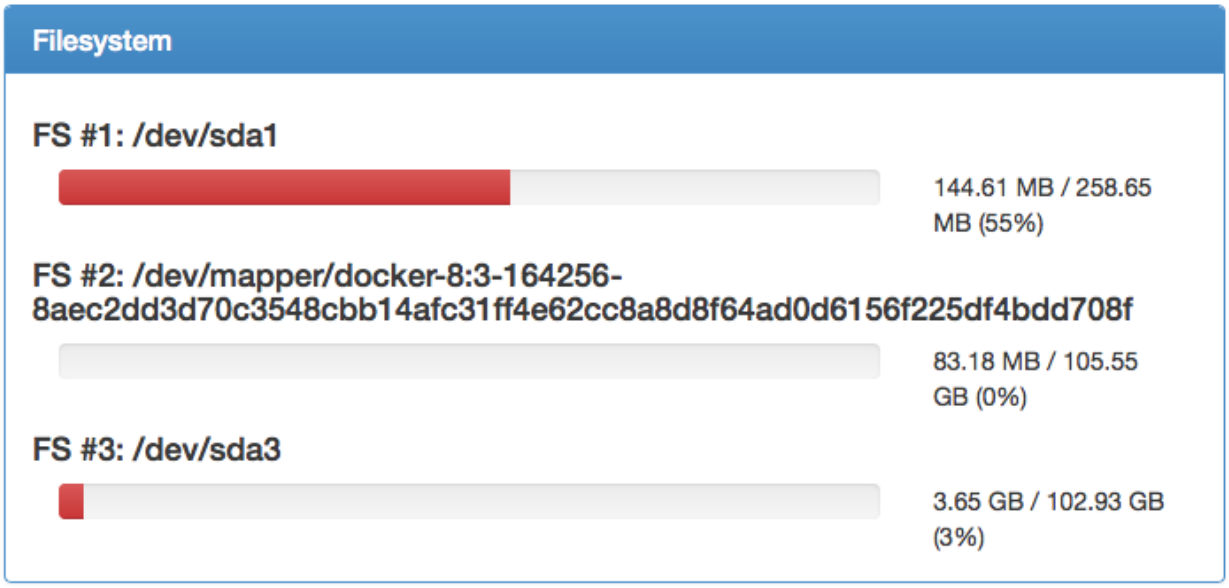
1.55 GiB / 1.77 GiB (87%)

Network

Interface: **enp0s3**

Throughput





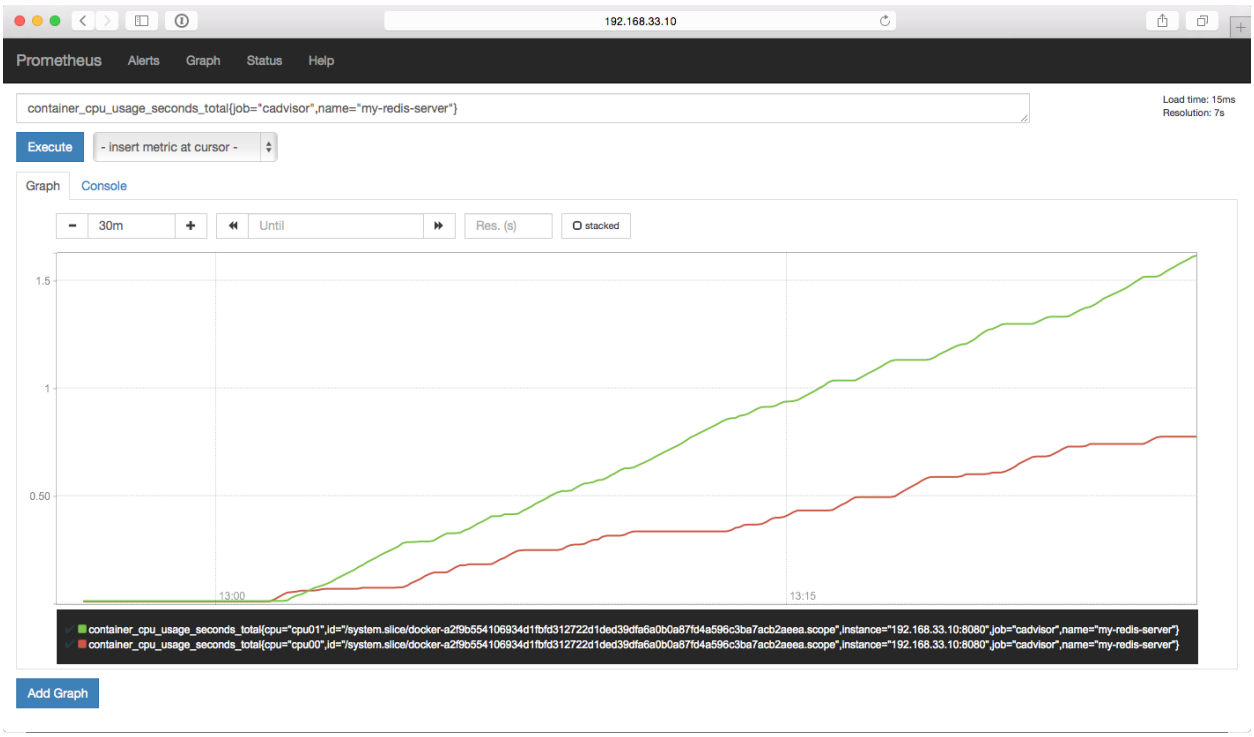
192.168.33.10

```
# HELP container_cpu_system_seconds_total Cumulative system cpu time consumed in seconds.
# TYPE container_cpu_system_seconds_total counter
container_cpu_system_seconds_total{id="/",name="/"} 13.94
container_cpu_system_seconds_total{id="/system.slice",name="/system.slice"} 0.09
container_cpu_system_seconds_total{id="/system.slice/-.mount",name="/system.slice/-.mount"} 0
container_cpu_system_seconds_total{id="/system.slice/NetworkManager-dispatcher.service",name="/system.slice/NetworkManager-dispatcher.service"} 0
container_cpu_system_seconds_total{id="/system.slice/NetworkManager-wait-online.service",name="/system.slice/NetworkManager-wait-online.service"} 0
container_cpu_system_seconds_total{id="/system.slice/NetworkManager.service",name="/system.slice/NetworkManager.service"} 0
container_cpu_system_seconds_total{id="/system.slice/boot.mount",name="/system.slice/boot.mount"} 0
container_cpu_system_seconds_total{id="/system.slice/brandbot.service",name="/system.slice/brandbot.service"} 0
container_cpu_system_seconds_total{id="/system.slice/cpupower.service",name="/system.slice/cpupower.service"} 0
container_cpu_system_seconds_total{id="/system.slice/crond.service",name="/system.slice/crond.service"} 0
container_cpu_system_seconds_total{id="/system.slice/dbus.service",name="/system.slice/dbus.service"} 0
container_cpu_system_seconds_total{id="/system.slice/dbus.socket",name="/system.slice/dbus.socket"} 0
container_cpu_system_seconds_total{id="/system.slice/dev-disk-by\\x2did-
ata\\x2dVBOX_HARDDISK_VB25363e5b\\x2db6742bbf\\x2dpart2.swap",name="/system.slice/dev-disk-by\\x2did-
ata\\x2dVBOX_HARDDISK_VB25363e5b\\x2db6742bbf\\x2dpart2.swap"} 0
container_cpu_system_seconds_total{id="/system.slice/dev-disk-by\\x2duuid-
f9595940\\x2d2813\\x2d45a1\\x2dae5e\\x2dc60e7373c342.swap",name="/system.slice/dev-disk-by\\x2duuid-
f9595940\\x2d2813\\x2d45a1\\x2dae5e\\x2dc60e7373c342.swap"} 0
container_cpu_system_seconds_total{id="/system.slice/dev-sda2.swap",name="/system.slice/dev-sda2.swap"} 0
container_cpu_system_seconds_total{id="/system.slice/docker-4e9e860c475e96935e65028bbf324138fd7f98c1167e9c426f7f5911d0f129a0.scope",name="cadvisor"}
0.05
```

Targets

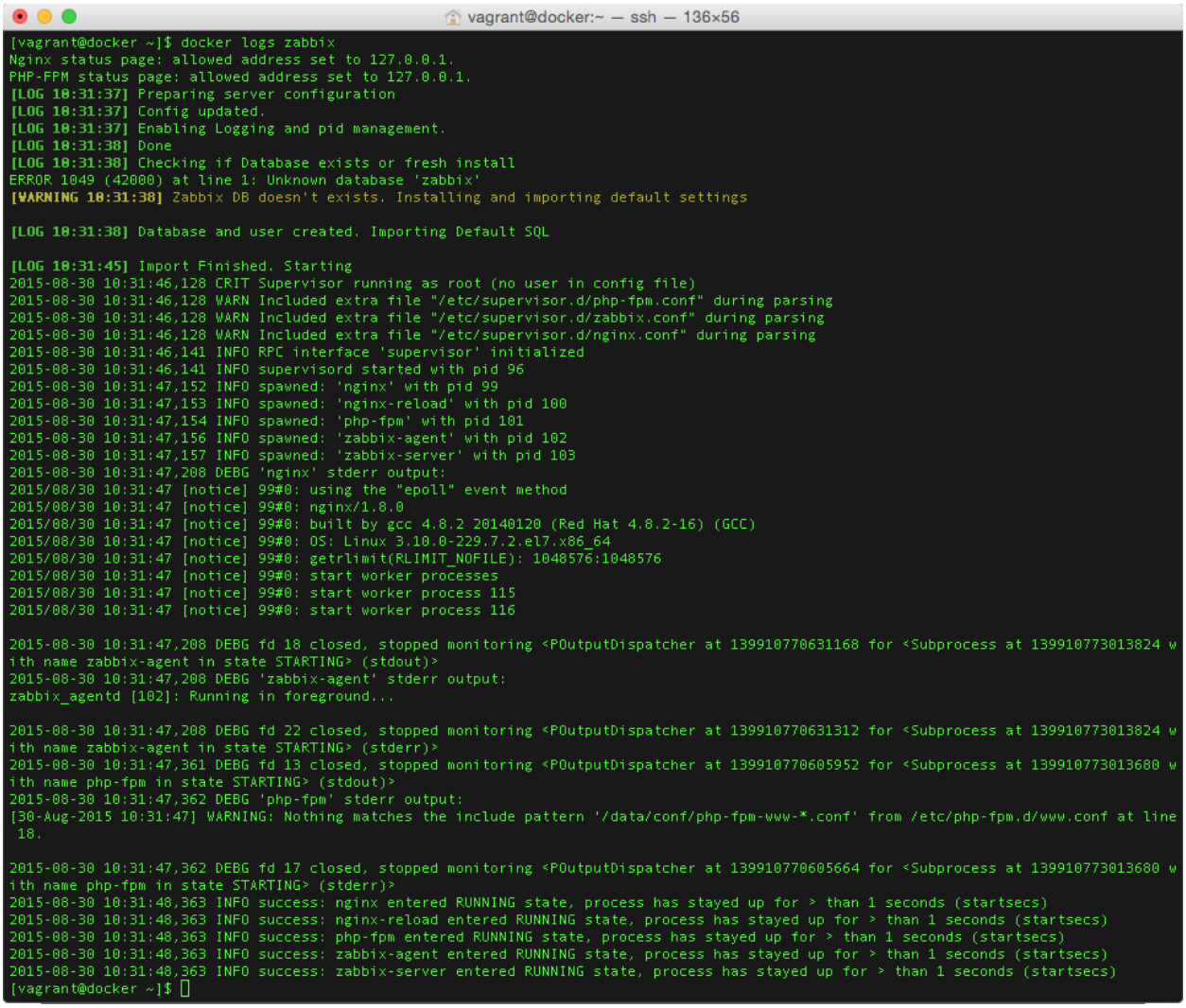
cadvisor

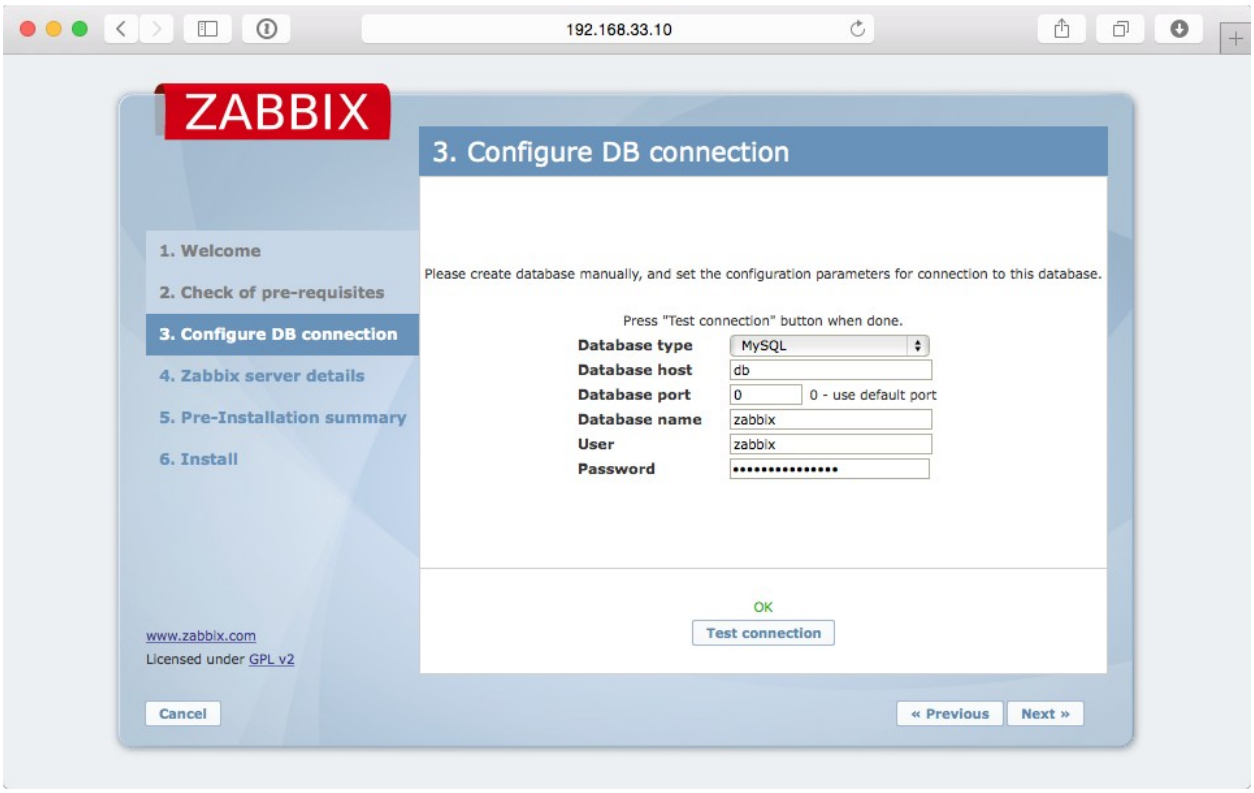
Endpoint	State	Base Labels	Last Scrape	Error
http://192.168.33.10:8080/metrics	HEALTHY	none	4.625239876s ago	

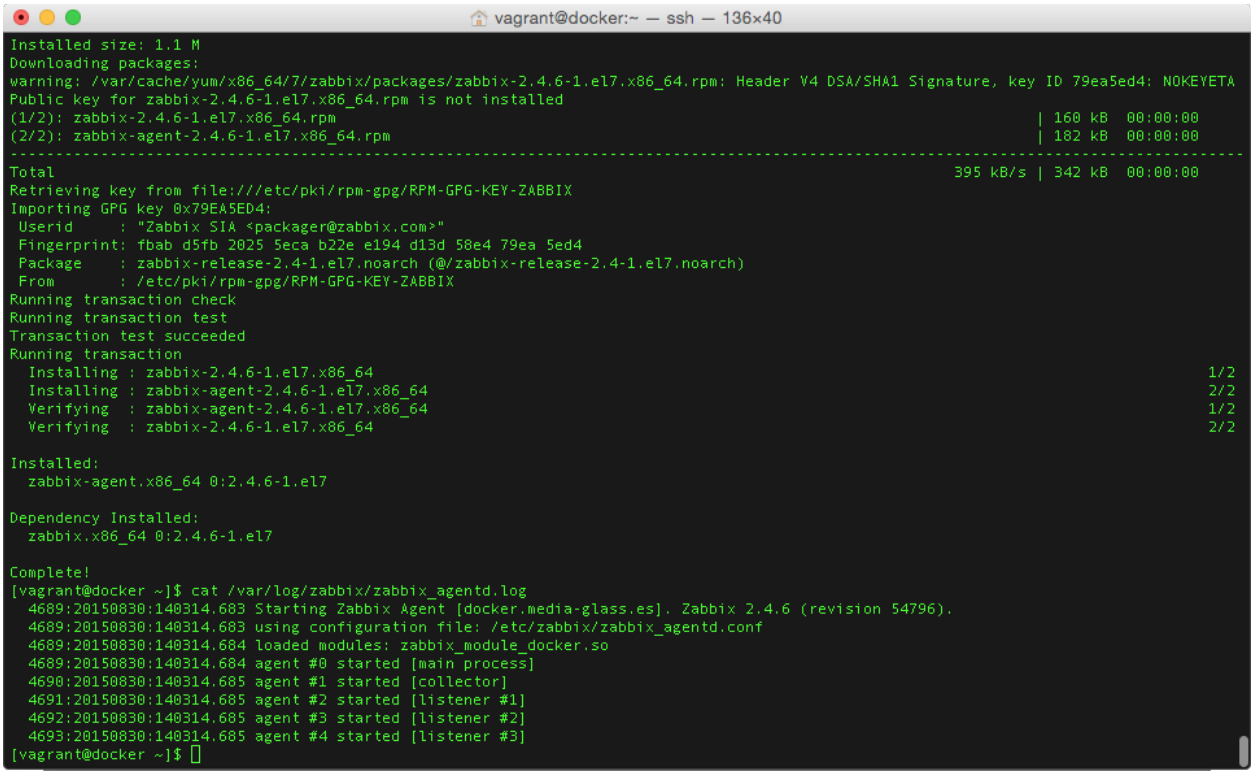

192.168.33.10
Prometheus
Alerts
Graph
Status
Help
container_cpu_usage_seconds_total{job="cadvisor",name="my-redis-server"}
Load time: 15ms
Resolution: 7s
Execute
- insert metric at cursor -
Graph
Console
30m
Until
Res. (s)
stacked
1.5
1
0.50
13:00
13:15
container_cpu_usage_seconds_total{cpu="cpu01",id="/system.slice/docker-a2f9b554106934d1fbfd312722d1ded39dfa6a0b0a87fd4a596c3ba7acb2aeea.scope",instance="192.168.33.10:8080",job="cadvisor",name="my-redis-server"}
container_cpu_usage_seconds_total{cpu="cpu00",id="/system.slice/docker-a2f9b554106934d1fbfd312722d1ded39dfa6a0b0a87fd4a596c3ba7acb2aeea.scope",instance="192.168.33.10:8080",job="cadvisor",name="my-redis-server"}
Add Graph

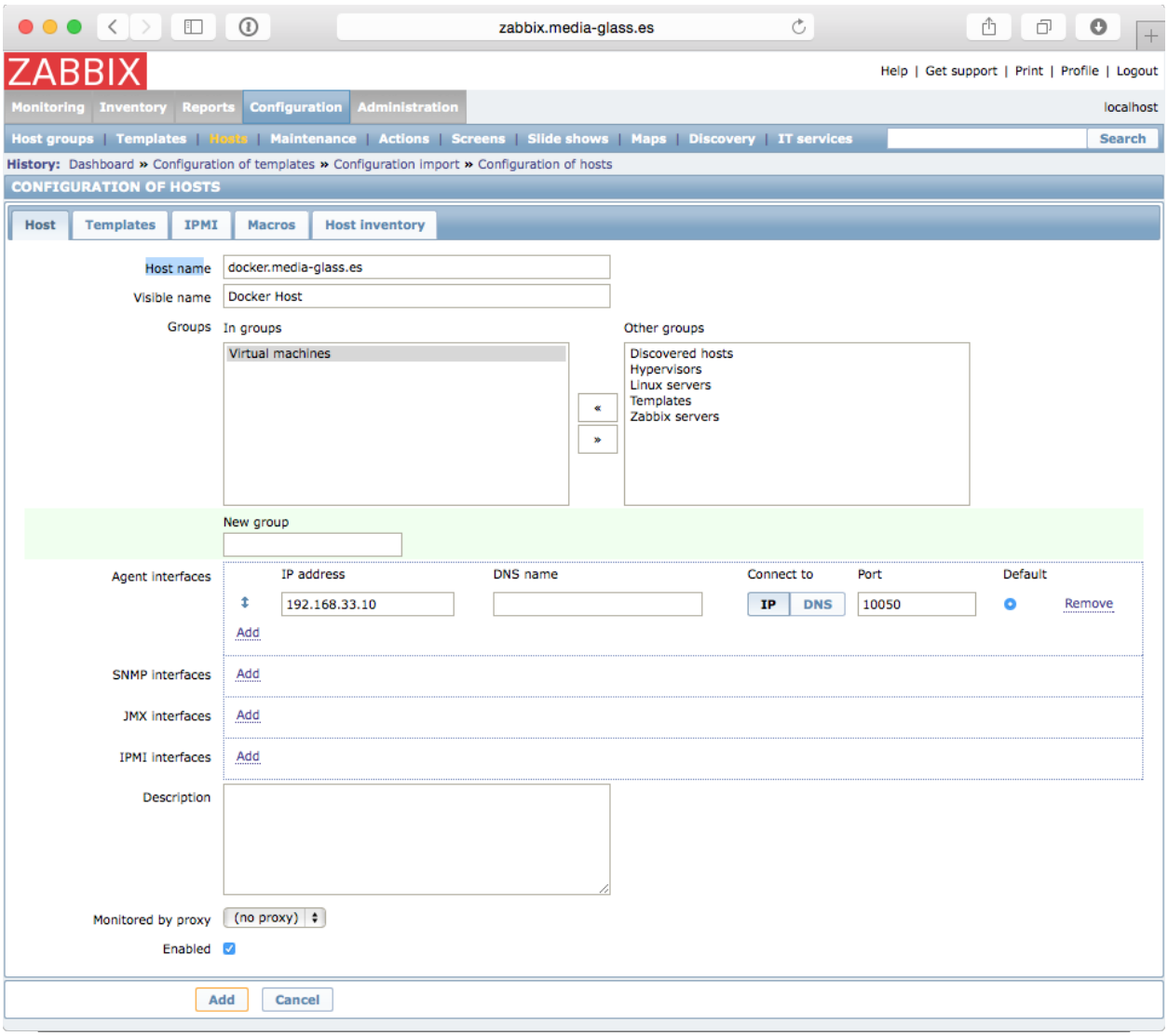
192.168.33.10
PromDash
Dashboards
Servers
My Dashboard
3h
Until
never
Save Changes
CPU Usage (Seconds)
Memory Usage
Network
FS Limit
Add Graph
Add Pie Chart
Add Gauge
Add Frame
Clone Widget

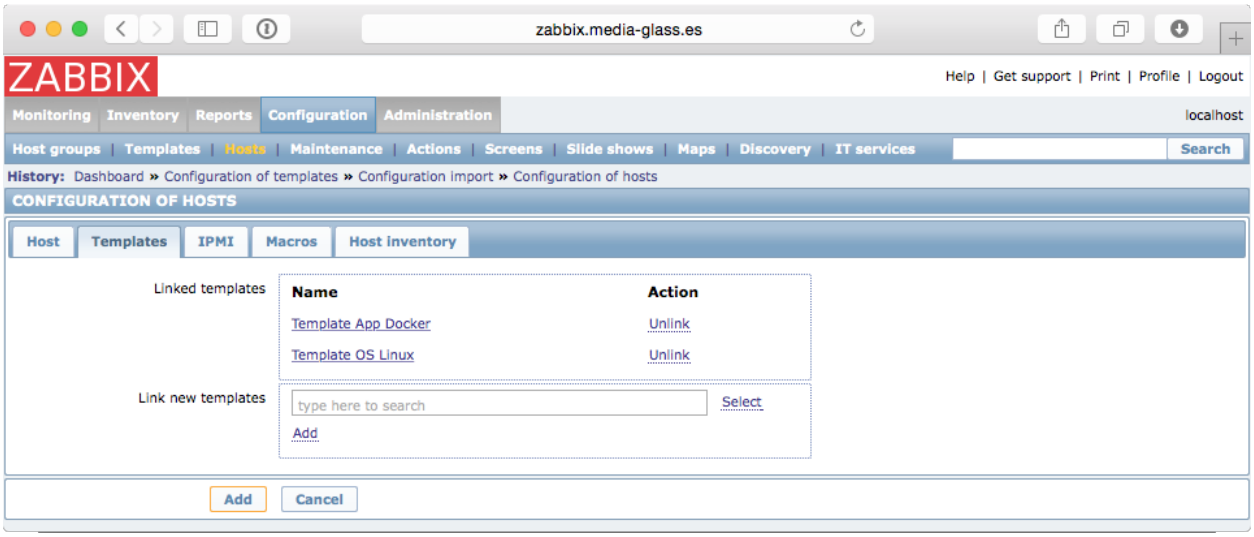
Chapter 4: A Traditional Approach to Monitoring Containers

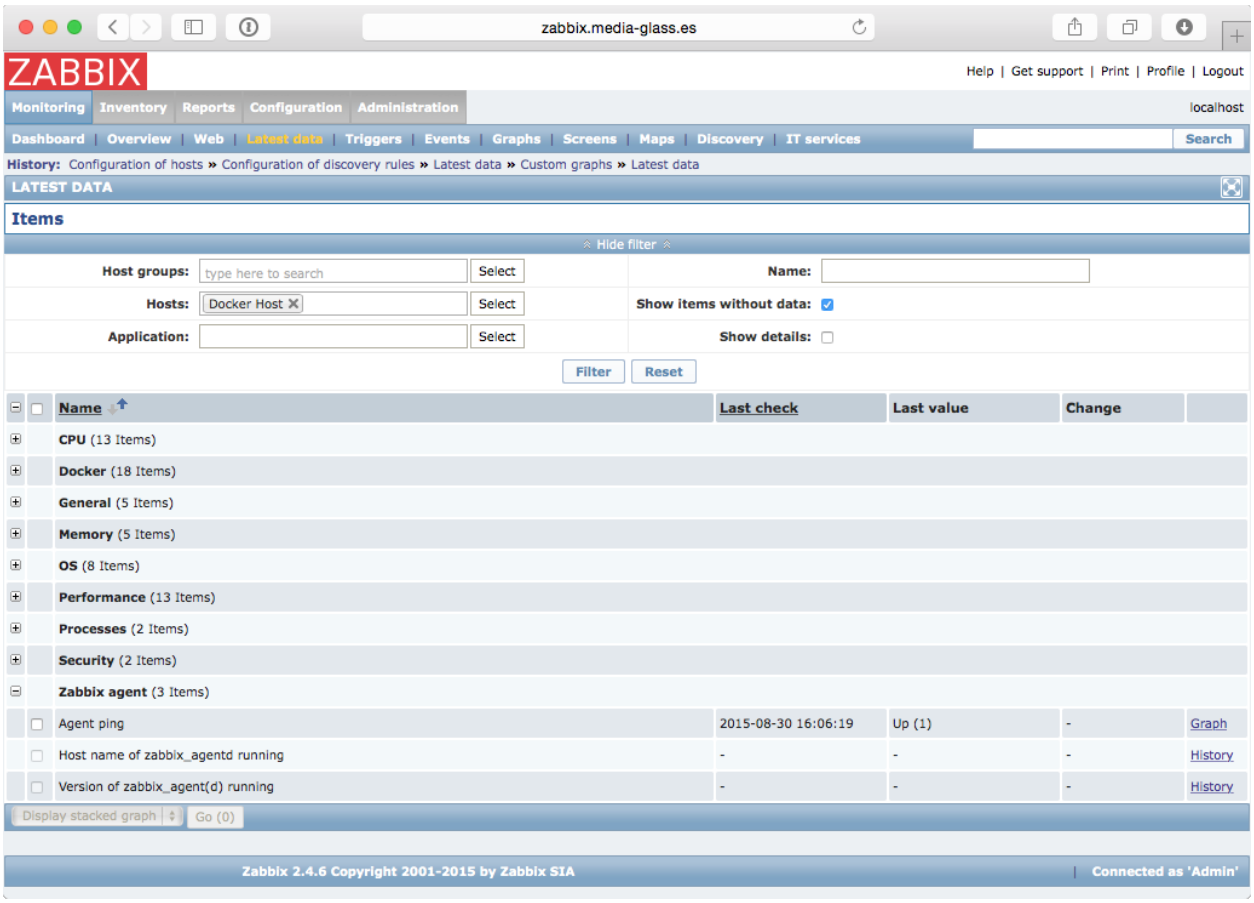


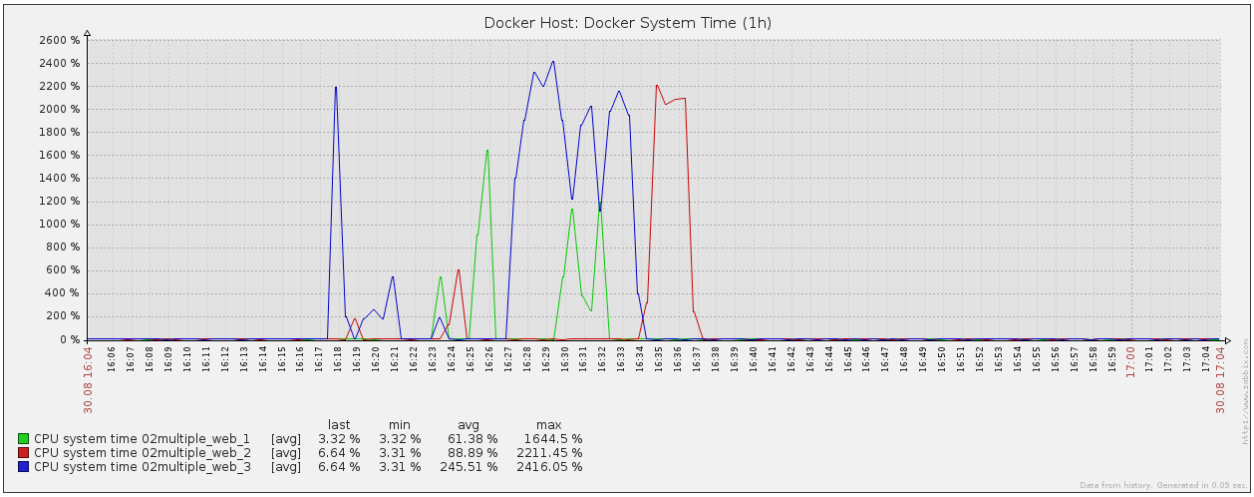

192.168.33.10
ZABBIX
3. Configure DB connection
1. Welcome
2. Check of pre-requisites
3. Configure DB connection
4. Zabbix server details
5. Pre-Installation summary
6. Install
Please create database manually, and set the configuration parameters for connection to this database.
Press "Test connection" button when done.
Database type
MySQL
Database host
db
Database port
0
0 - use default port
Database name
zabbix
User
zabbix
Password
OK
Test connection
www.zabbix.com
Licensed under GPL v2
Cancel
« Previous
Next »

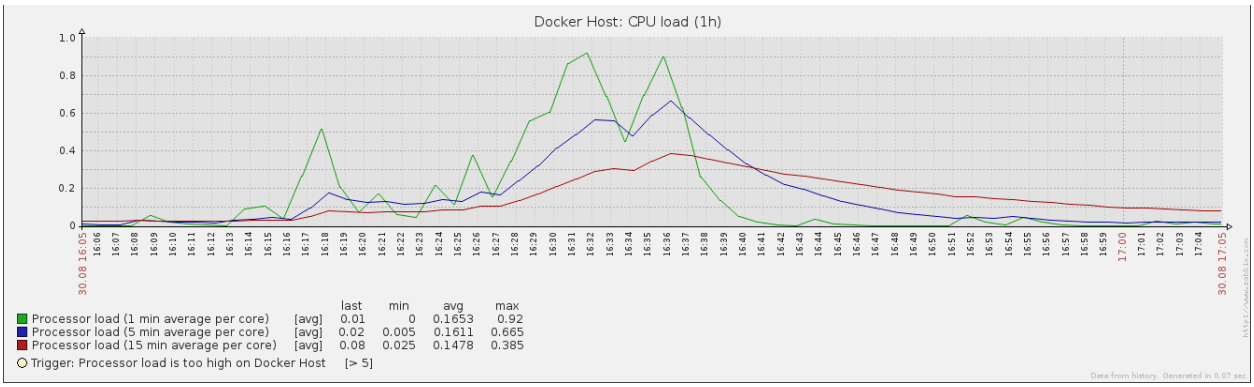

vagrant@docker:~ — ssh — 136×40
Installed size: 1.1 M
Downloading packages:
warning: /var/cache/yum/x86_64/7/zabbix/packages/zabbix-2.4.6-1.el7.x86_64.rpm: Header V4 DSA/SHA1 Signature, key ID 79ea5ed4: NOKEYETA
Public key for zabbix-2.4.6-1.el7.x86_64.rpm is not installed
(1/2): zabbix-2.4.6-1.el7.x86_64.rpm | 160 kB 00:00:00
(2/2): zabbix-agent-2.4.6-1.el7.x86_64.rpm | 182 kB 00:00:00
Total 395 kB/s | 342 kB 00:00:00
Retrieving key from file:///etc/pki/rpm-gpg/RPM-GPG-KEY-ZABBIX
Importing GPG key 0x79EA5ED4:
Userid : "Zabbix SIA <packager@zabbix.com>"
Fingerprint: fbab d5fb 2025 5eca b22e e194 d13d 58e4 79ea 5ed4
Package : zabbix-release-2.4-1.el7.noarch (@/zabbix-release-2.4-1.el7.noarch)
From : /etc/pki/rpm-gpg/RPM-GPG-KEY-ZABBIX
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : zabbix-2.4.6-1.el7.x86_64 1/2
Installing : zabbix-agent-2.4.6-1.el7.x86_64 2/2
Verifying : zabbix-agent-2.4.6-1.el7.x86_64 1/2
Verifying : zabbix-2.4.6-1.el7.x86_64 2/2
Installed:
zabbix-agent.x86_64 0:2.4.6-1.el7
Dependency Installed:
zabbix.x86_64 0:2.4.6-1.el7
Complete!
[vagrant@docker ~]$ cat /var/log/zabbix/zabbix_agentd.log
4689:20150830:140314.683 Starting Zabbix Agent [docker.media-glass.es]. Zabbix 2.4.6 (revision 54796).
4689:20150830:140314.683 using configuration file: /etc/zabbix/zabbix_agentd.conf
4689:20150830:140314.684 loaded modules: zabbix_module_docker.so
4689:20150830:140314.684 agent #0 started [main process]
4690:20150830:140314.685 agent #1 started [collector]
4691:20150830:140314.685 agent #2 started [listener #1]
4692:20150830:140314.685 agent #3 started [listener #2]
4693:20150830:140314.685 agent #4 started [listener #3]
[vagrant@docker ~]$

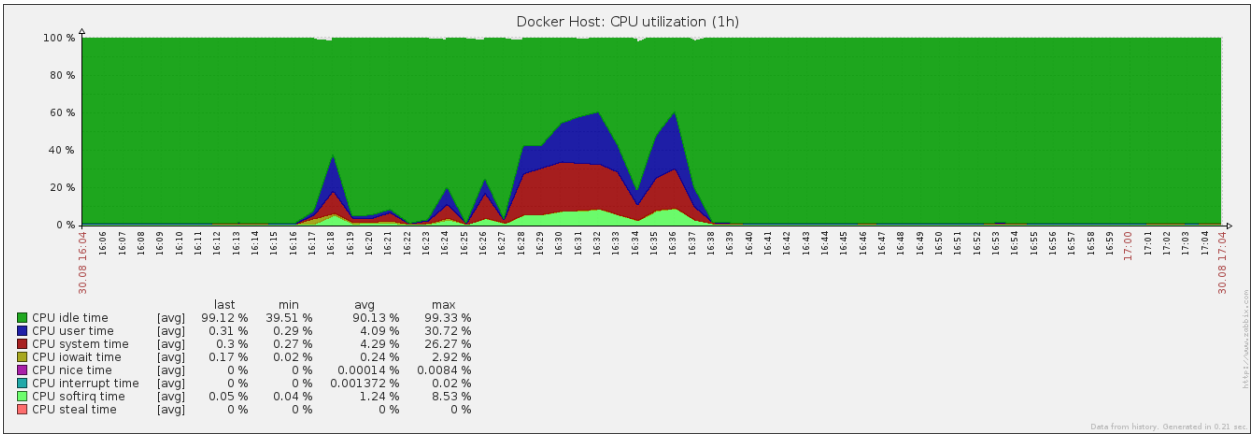

zabbix.media-glass.es
ZABBIX
Help | Get support | Print | Profile | Logout
Monitoring Inventory Reports Configuration Administration
localhost
Host groups | Templates | Hosts | Maintenance | Actions | Screens | Slide shows | Maps | Discovery | IT services
Search
History: Dashboard » Configuration of templates » Configuration import » Configuration of hosts
CONFIGURATION OF HOSTS
Host Templates IPMI Macros Host inventory
Host name
docker.media-glass.es
Visible name
Docker Host
Groups
In groups
Virtual machines
Other groups
Discovered hosts
Hypervisors
Linux servers
Templates
Zabbix servers
New group
Agent interfaces
IP address
DNS name
Connect to
Port
Default
192.168.33.10
IP DNS
10050
Remove
Add
SNMP interfaces
Add
JMX interfaces
Add
IPMI interfaces
Add
Description
Monitored by proxy
(no proxy)
Enabled
Add
Cancel

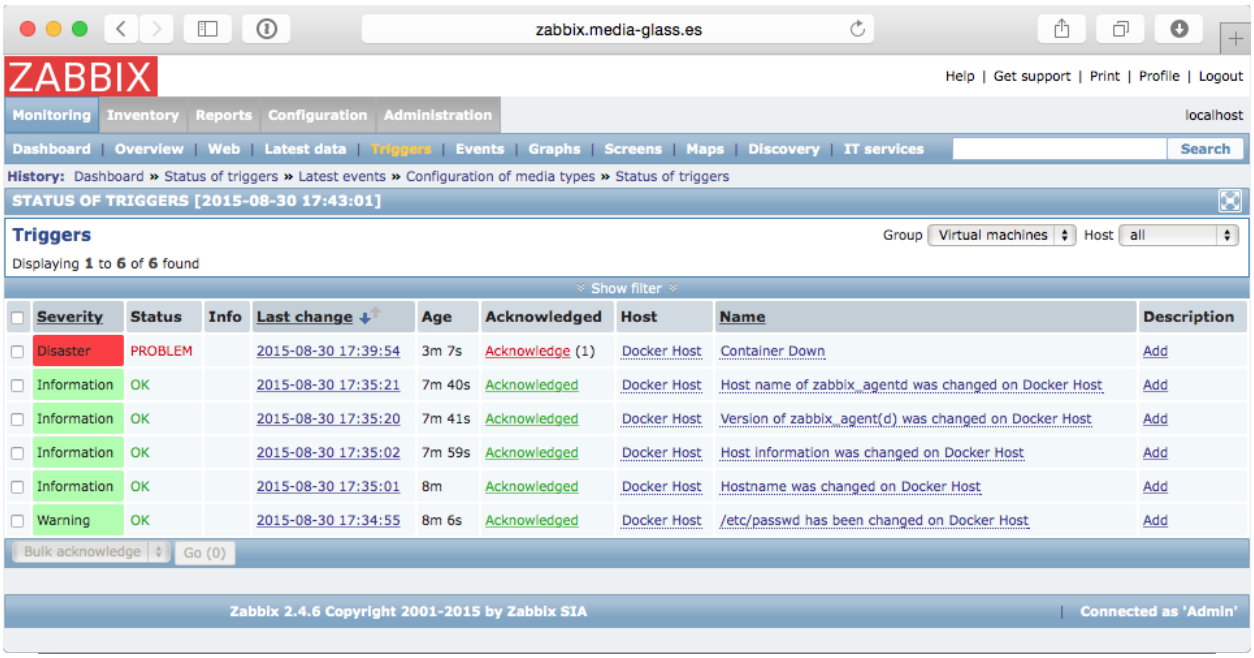

zabbix.media-glass.es
ZABBIX
Help | Get support | Print | Profile | Logout
Monitoring Inventory Reports Configuration Administration
localhost
Host groups | Templates | Hosts | Maintenance | Actions | Screens | Slide shows | Maps | Discovery | IT services
Search
History: Dashboard » Configuration of templates » Configuration import » Configuration of hosts
CONFIGURATION OF HOSTS
Host Templates IPMI Macros Host inventory
Linked templates
Name
Action
Template App Docker
Unlink
Template OS Linux
Unlink
Link new templates
type here to search
Select
Add
Add
Cancel

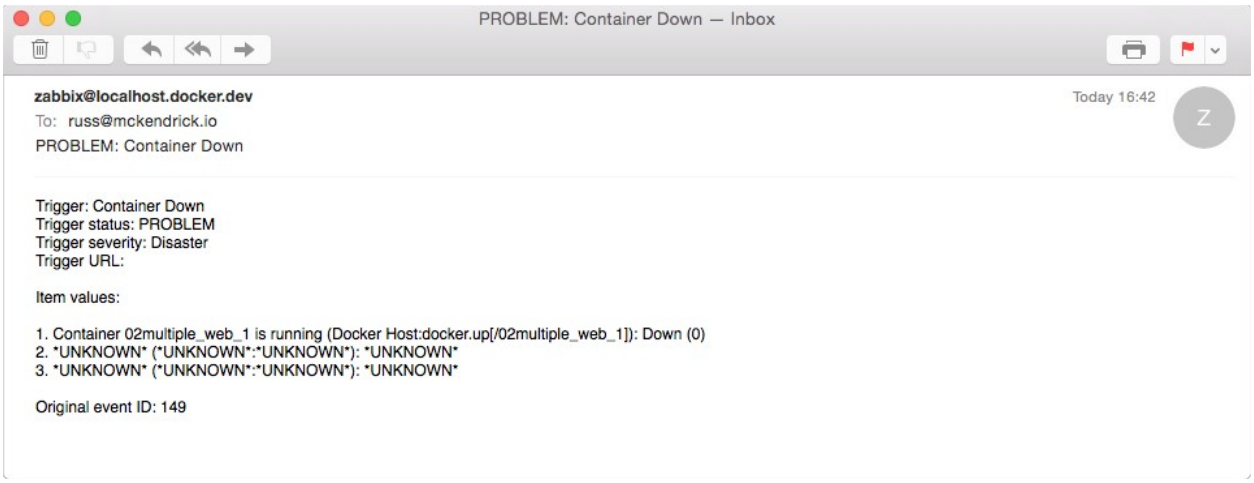

zabbix.media-glass.es
ZABBIX
Help | Get support | Print | Profile | Logout
Monitoring Inventory Reports Configuration Administration
localhost
Dashboard | Overview | Web | Latest data | Triggers | Events | Graphs | Screens | Maps | Discovery | IT services
Search
History: Configuration of hosts » Configuration of discovery rules » Latest data » Custom graphs » Latest data
LATEST DATA
Items
Hide filter
Host groups: type here to search Select
Hosts: Docker Host Select
Application: Select
Name:
Show items without data:
Show details:
Filter Reset
Name Last check Last value Change
CPU (13 Items)
Docker (18 Items)
General (5 Items)
Memory (5 Items)
OS (8 Items)
Performance (13 Items)
Processes (2 Items)
Security (2 Items)
Zabbix agent (3 Items)
Agent ping 2015-08-30 16:06:19 Up (1) - Graph
Host name of zabbix_agentd running - - - History
Version of zabbix_agent(d) running - - - History
Display stacked graph Go (0)
Zabbix 2.4.6 Copyright 2001-2015 by Zabbix SIA
Connected as 'Admin'


Docker Host: Docker System Time (1h)
2600 %
2400 %
2200 %
2000 %
1800 %
1600 %
1400 %
1200 %
1000 %
800 %
600 %
400 %
200 %
0 %
30.08 16:04
30.08 17:04
last min avg max
CPU system time 02multiple_web_1 [avg] 3.32 % 3.32 % 61.38 % 1644.5 %
CPU system time 02multiple_web_2 [avg] 6.64 % 3.31 % 88.89 % 2211.45 %
CPU system time 02multiple_web_3 [avg] 6.64 % 3.31 % 245.51 % 2416.05 %

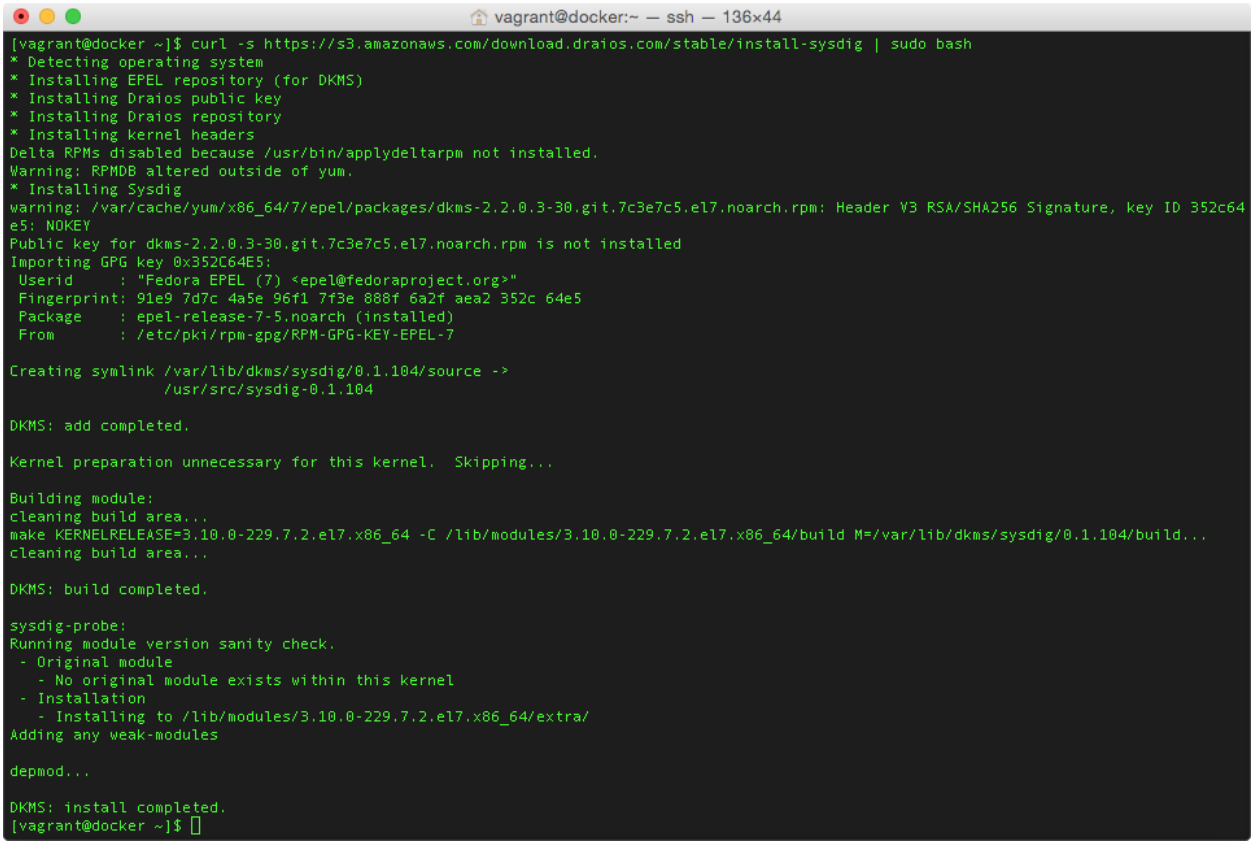

Docker Host: CPU load (1h)
last min avg max
Processor load (1 min average per core) [avg] 0.01 0 0.1653 0.92
Processor load (5 min average per core) [avg] 0.02 0.005 0.1611 0.665
Processor load (15 min average per core) [avg] 0.08 0.025 0.1478 0.385
Trigger: Processor load is too high on Docker Host [> 5]

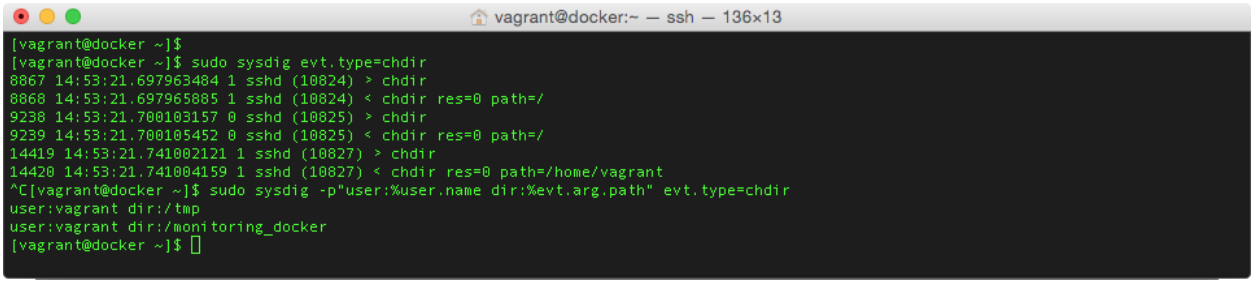

Docker Host: CPU utilization (1h)
last min avg max
CPU idle time [avg] 99.12 % 39.51 % 90.13 % 99.33 %
CPU user time [avg] 0.31 % 0.29 % 4.09 % 30.72 %
CPU system time [avg] 0.3 % 0.27 % 4.29 % 26.27 %
CPU iowait time [avg] 0.17 % 0.02 % 0.24 % 2.92 %
CPU nice time [avg] 0 % 0 % 0.00014 % 0.0084 %
CPU interrupt time [avg] 0 % 0 % 0.001372 % 0.02 %
CPU softirq time [avg] 0.05 % 0.04 % 1.24 % 8.53 %
CPU steal time [avg] 0 % 0 % 0 % 0 %

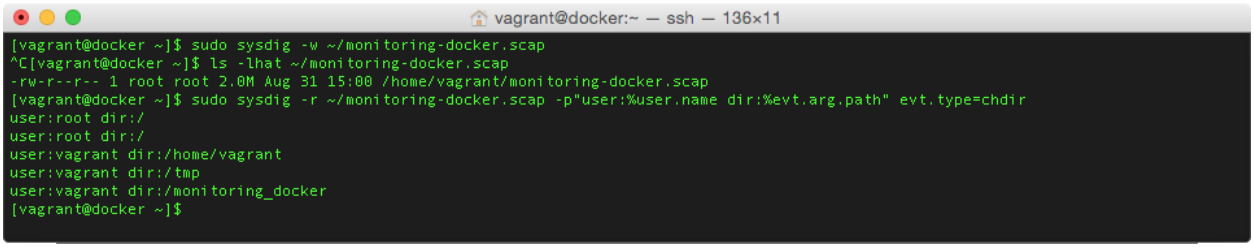

zabbix.media-glass.es
ZABBIX
Help | Get support | Print | Profile | Logout
Monitoring Inventory Reports Configuration Administration
localhost
Dashboard | Overview | Web | Latest data | Triggers | Events | Graphs | Screens | Maps | Discovery | IT services
Search
History: Dashboard » Status of triggers » Latest events » Configuration of media types » Status of triggers
STATUS OF TRIGGERS [2015-08-30 17:43:01]
Triggers
Group Virtual machines Host all
Displaying 1 to 6 of 6 found
Show filter
Severity Status Info Last change Age Acknowledged Host Name Description
Disaster PROBLEM 2015-08-30 17:39:54 3m 7s Acknowledge (1) Docker Host Container Down Add
Information OK 2015-08-30 17:35:21 7m 40s Acknowledged Docker Host Host name of zabbix_agentd was changed on Docker Host Add
Information OK 2015-08-30 17:35:20 7m 41s Acknowledged Docker Host Version of zabbix_agent(d) was changed on Docker Host Add
Information OK 2015-08-30 17:35:02 7m 59s Acknowledged Docker Host Host information was changed on Docker Host Add
Information OK 2015-08-30 17:35:01 8m Acknowledged Docker Host Hostname was changed on Docker Host Add
Warning OK 2015-08-30 17:34:55 8m 6s Acknowledged Docker Host /etc/passwd has been changed on Docker Host Add
Bulk acknowledge Go (0)
Zabbix 2.4.6 Copyright 2001-2015 by Zabbix SIA
Connected as 'Admin'

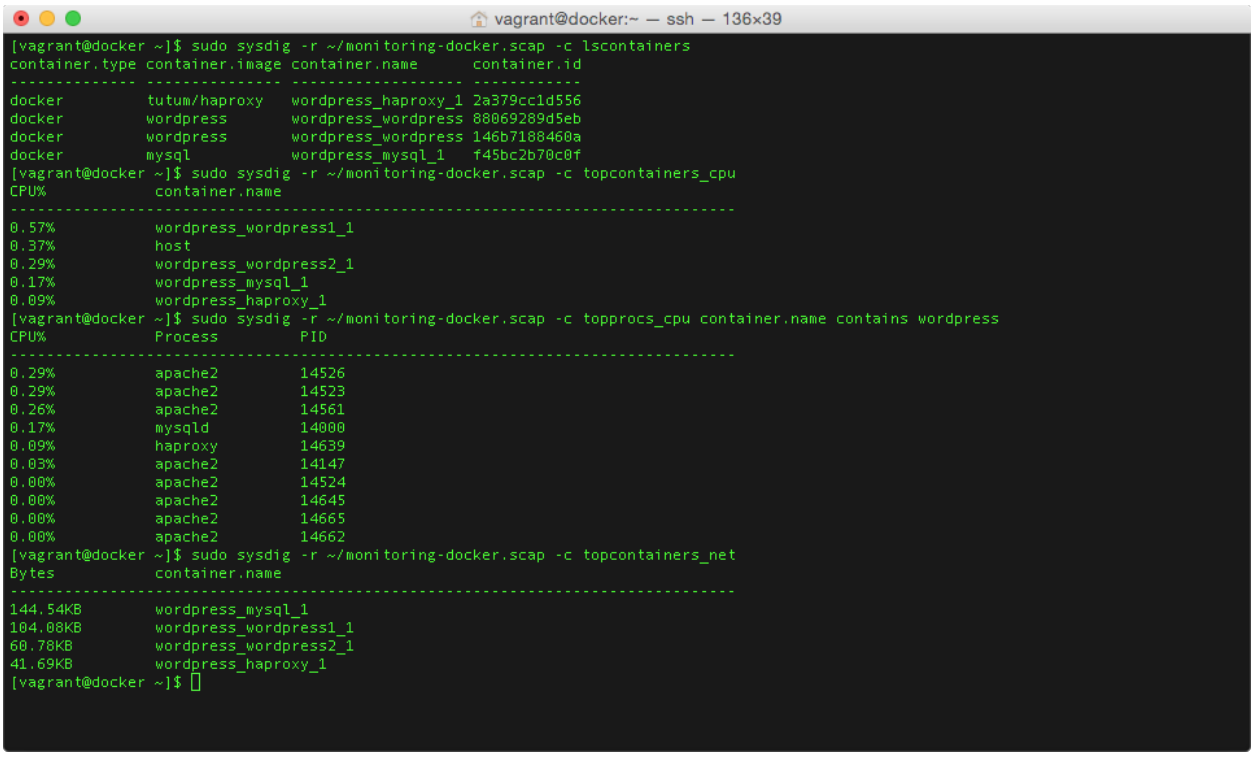

PROBLEM: Container Down — Inbox
zabbix@localhost.docker.dev
To: russ@mckendrick.io
PROBLEM: Container Down
Today 16:42
Z
Trigger: Container Down
Trigger status: PROBLEM
Trigger severity: Disaster
Trigger URL:
Item values:
1. Container 02multiple_web_1 is running (Docker Host:docker.up[/02multiple_web_1]): Down (0)
2. *UNKNOWN* (*UNKNOWN*:*UNKNOWN*): *UNKNOWN*
3. *UNKNOWN* (*UNKNOWN*:*UNKNOWN*): *UNKNOWN*
Original event ID: 149

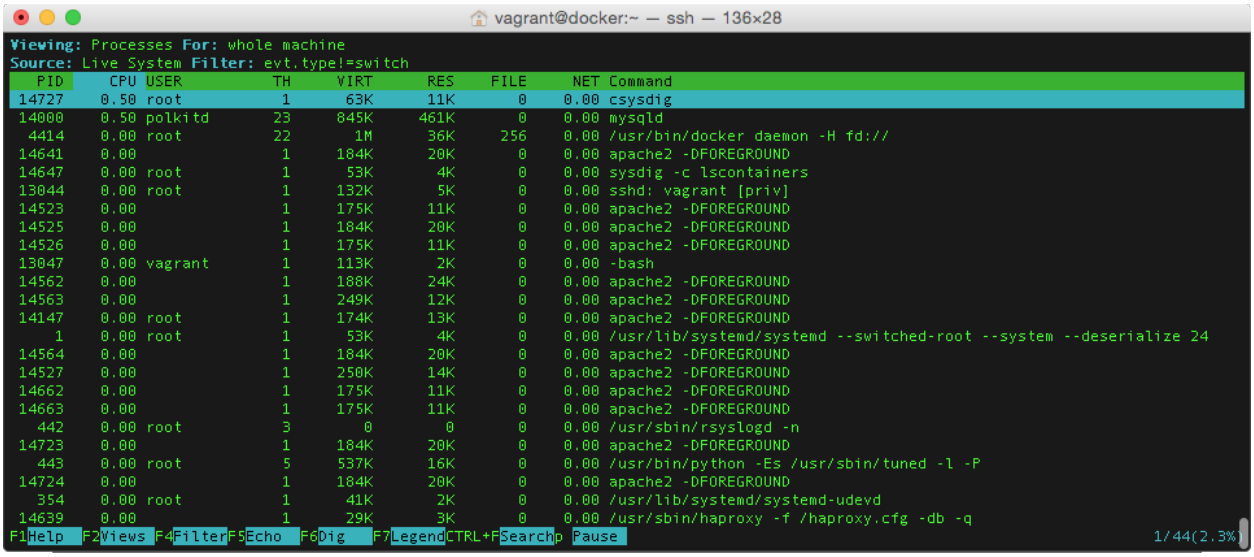
Chapter 5: Querying with Sysdig

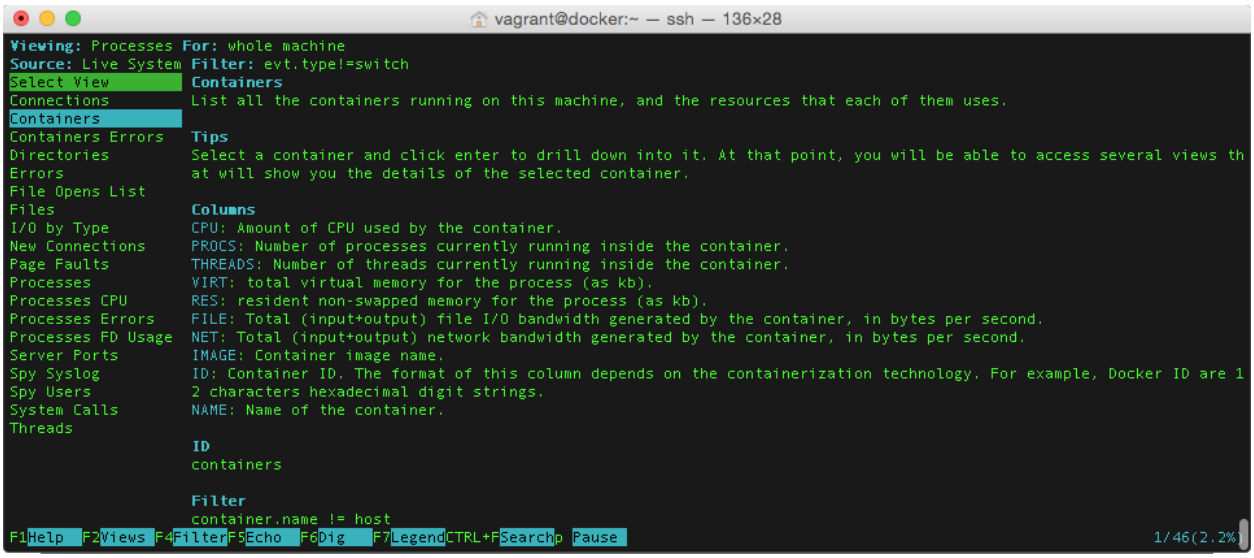


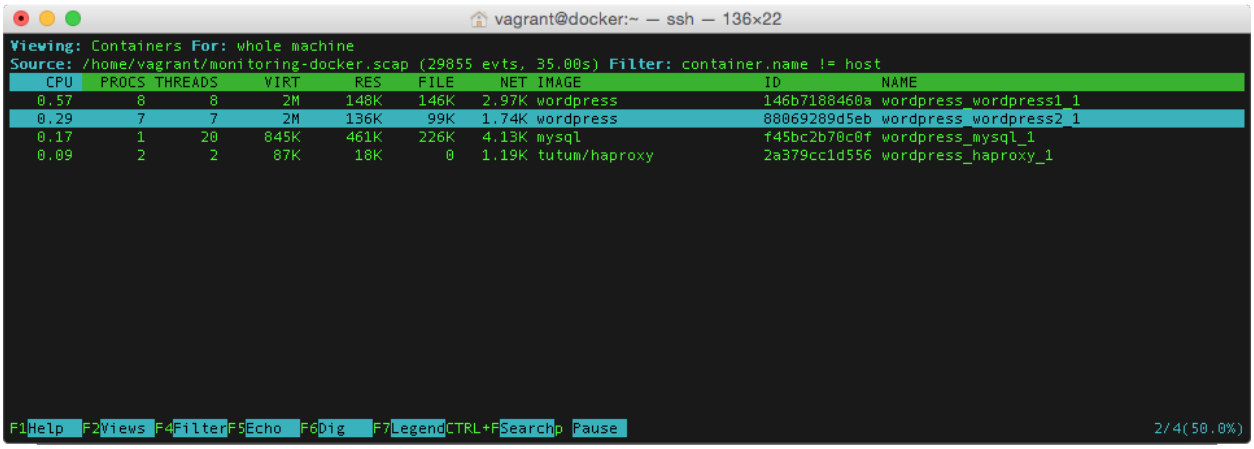


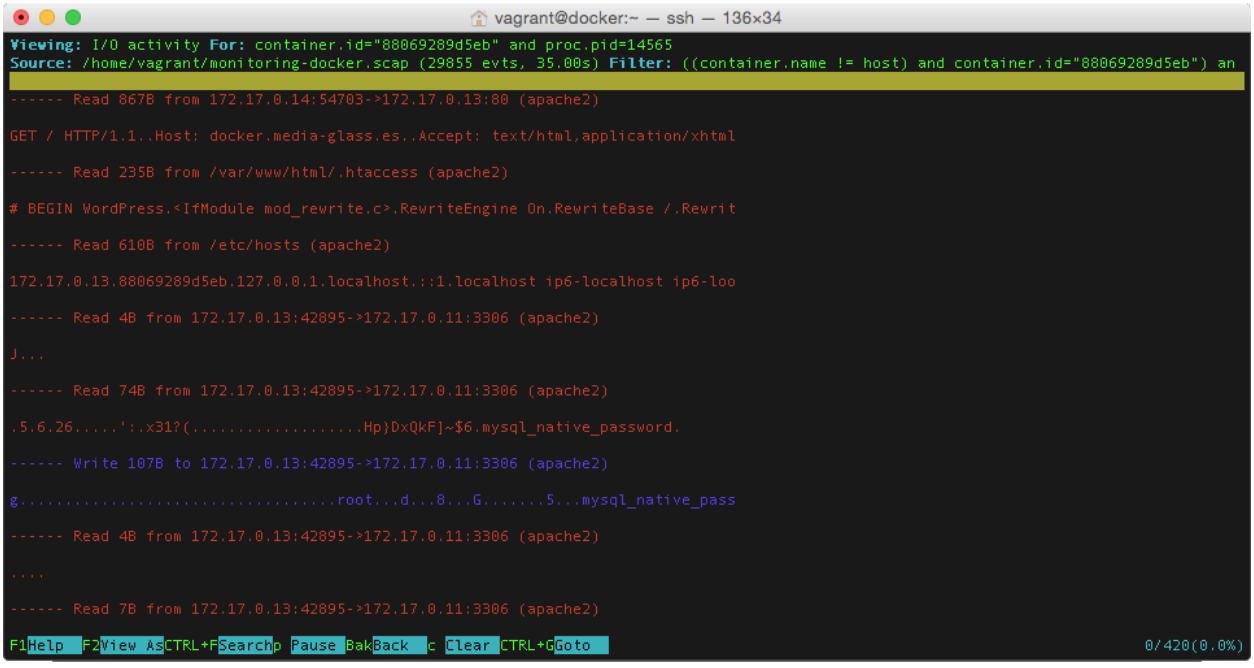



vagrant@docker:~ — ssh — 136×39
[vagrant@docker ~]$ sudo sysdig -r ~/monitoring-docker.scap -c lscontainers
container.type container.image container.name container.id
docker tutum/haproxy wordpress_haproxy_1 2a379cc1d556
docker wordpress wordpress_wordpress 88069289d5eb
docker wordpress wordpress_wordpress 146b7188460a
docker mysql wordpress_mysql_1 f45bc2b70c0f
[vagrant@docker ~]$ sudo sysdig -r ~/monitoring-docker.scap -c topcontainers_cpu
CPU% container.name
0.57% wordpress_wordpress1_1
0.37% host
0.29% wordpress_wordpress2_1
0.17% wordpress_mysql_1
0.09% wordpress_haproxy_1
[vagrant@docker ~]$ sudo sysdig -r ~/monitoring-docker.scap -c topprocs_cpu container.name contains wordpress
CPU% Process PID
0.29% apache2 14526
0.29% apache2 14523
0.26% apache2 14561
0.17% mysqld 14000
0.09% haproxy 14639
0.03% apache2 14147
0.00% apache2 14524
0.00% apache2 14645
0.00% apache2 14665
0.00% apache2 14662
[vagrant@docker ~]$ sudo sysdig -r ~/monitoring-docker.scap -c topcontainers_net
Bytes container.name
144.54KB wordpress_mysql_1
104.08KB wordpress_wordpress1_1
60.78KB wordpress_wordpress2_1
41.69KB wordpress_haproxy_1
[vagrant@docker ~]$

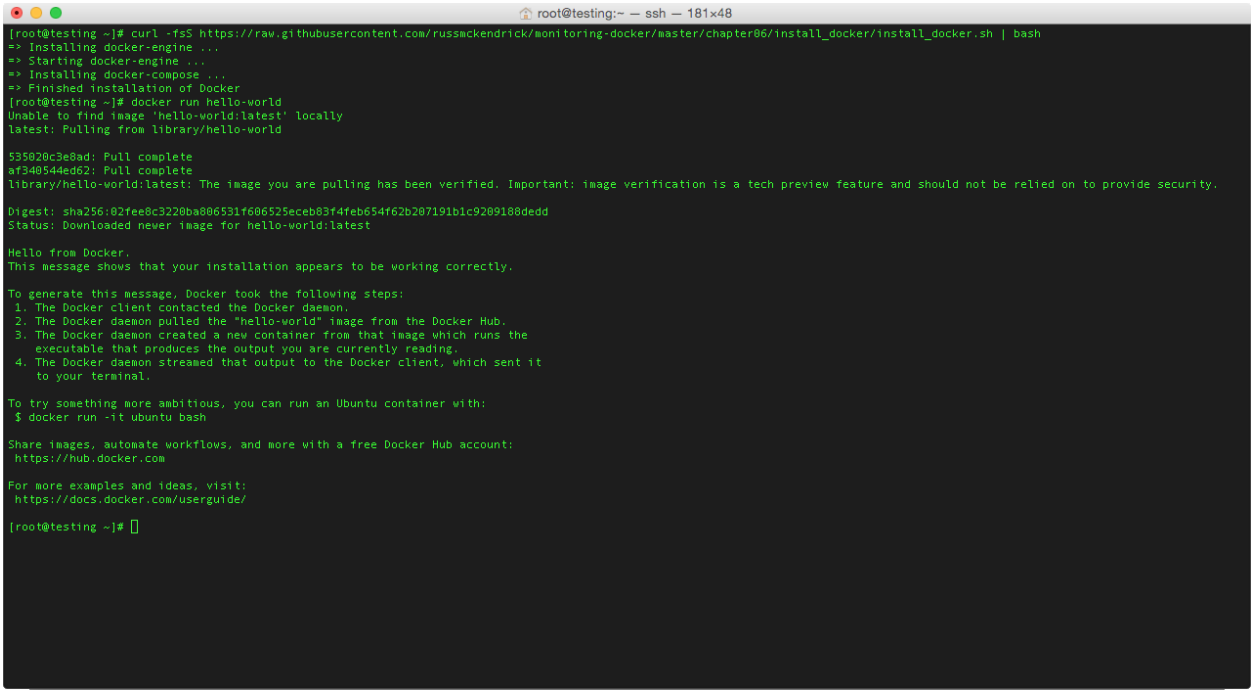

vagrant@docker:~ — ssh — 136×28
Viewing: Processes For: whole machine
Source: Live System Filter: evt.type!=switch
PID CPU USER TH VIRT RES FILE NET Command
14727 0.50 root 1 63K 11K 0 0.00 csysdig
14000 0.50 polkitd 23 845K 461K 0 0.00 mysqld
4414 0.00 root 22 1M 36K 256 0.00 /usr/bin/docker daemon -H fd://
14641 0.00 1 184K 20K 0 0.00 apache2 -DFOREGROUND
14647 0.00 root 1 53K 4K 0 0.00 sysdig -c lscontainers
13044 0.00 root 1 132K 5K 0 0.00 sshd: vagrant [priv]
14523 0.00 1 175K 11K 0 0.00 apache2 -DFOREGROUND
14525 0.00 1 184K 20K 0 0.00 apache2 -DFOREGROUND
14526 0.00 1 175K 11K 0 0.00 apache2 -DFOREGROUND
13047 0.00 vagrant 1 113K 2K 0 0.00 -bash
14562 0.00 1 188K 24K 0 0.00 apache2 -DFOREGROUND
14563 0.00 1 249K 12K 0 0.00 apache2 -DFOREGROUND
14147 0.00 root 1 174K 13K 0 0.00 apache2 -DFOREGROUND
1 0.00 root 1 53K 4K 0 0.00 /usr/lib/systemd/systemd --switched-root --system --deserialize 24
14564 0.00 1 184K 20K 0 0.00 apache2 -DFOREGROUND
14527 0.00 1 250K 14K 0 0.00 apache2 -DFOREGROUND
14662 0.00 1 175K 11K 0 0.00 apache2 -DFOREGROUND
14663 0.00 1 175K 11K 0 0.00 apache2 -DFOREGROUND
442 0.00 root 3 0 0 0 0.00 /usr/sbin/rsyslogd -n
14723 0.00 1 184K 20K 0 0.00 apache2 -DFOREGROUND
443 0.00 root 5 537K 16K 0 0.00 /usr/bin/python -Es /usr/sbin/tuned -l -P
14724 0.00 1 184K 20K 0 0.00 apache2 -DFOREGROUND
354 0.00 root 1 41K 2K 0 0.00 /usr/lib/systemd/systemd-udevd
14639 0.00 1 29K 3K 0 0.00 /usr/sbin/haproxy -f /haproxy.cfg -db -q
F1Help F2Views F4Filter F5Echo F6Dig F7Legend CTRL+F Search p Pause
1/44(2.3%)

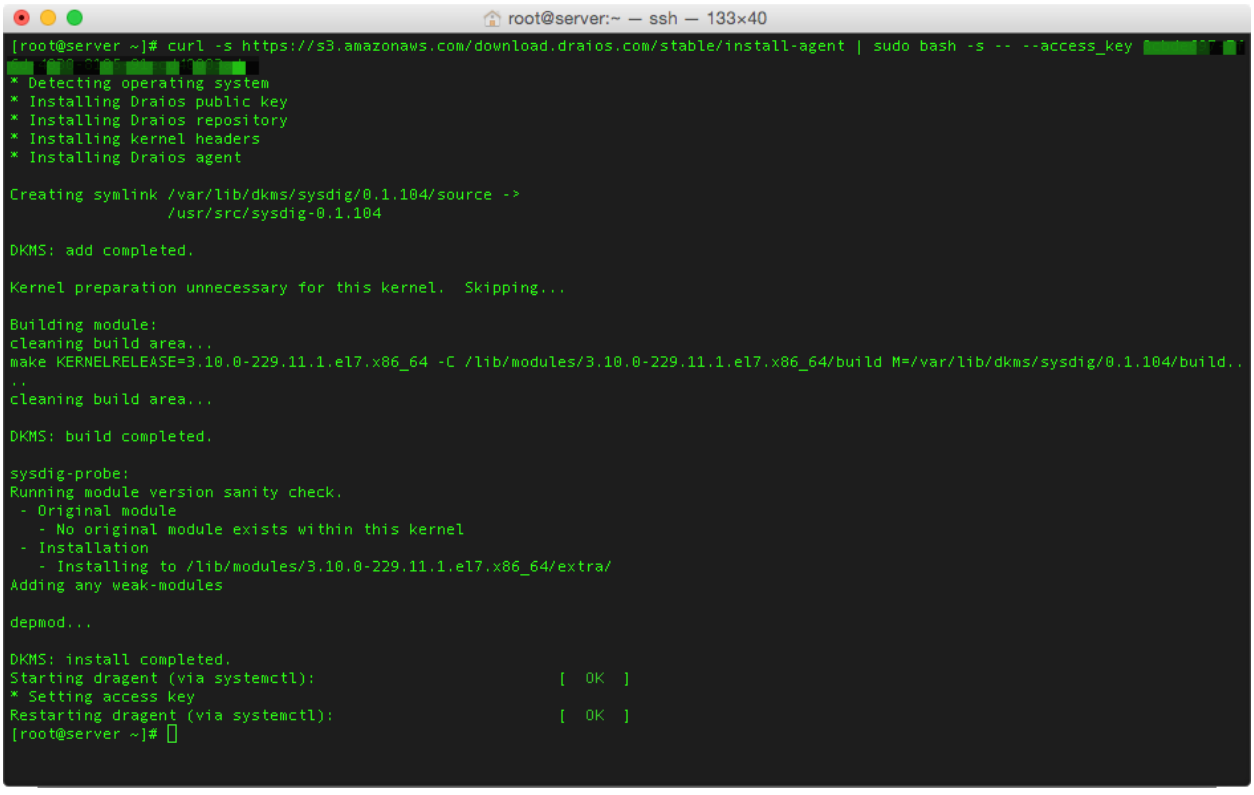

vagrant@docker:~ — ssh — 136×28
Viewing: Processes For: whole machine
Source: Live System Filter: evt.type!=switch
Select View
Connections
Containers
Containers Errors
Directories
Errors
File Opens List
Files
I/O by Type
New Connections
Page Faults
Processes
Processes CPU
Processes Errors
Processes FD Usage
Server Ports
Spy Syslog
Spy Users
System Calls
Threads
Containers
List all the containers running on this machine, and the resources that each of them uses.
Tips
Select a container and click enter to drill down into it. At that point, you will be able to access several views th
at will show you the details of the selected container.
Columns
CPU: Amount of CPU used by the container.
PROCS: Number of processes currently running inside the container.
THREADS: Number of threads currently running inside the container.
VIRT: total virtual memory for the process (as kb).
RES: resident non-swapped memory for the process (as kb).
FILE: Total (input+output) file I/O bandwidth generated by the container, in bytes per second.
NET: Total (input+output) network bandwidth generated by the container, in bytes per second.
IMAGE: Container image name.
ID: Container ID. The format of this column depends on the containerization technology. For example, Docker ID are 1
2 characters hexadecimal digit strings.
NAME: Name of the container.
ID
containers
Filter
container.name != host
F1Help F2Views F4FilterF5Echo F6Dig F7LegendCTRL+FSearchp Pause
1/46(2.2%)

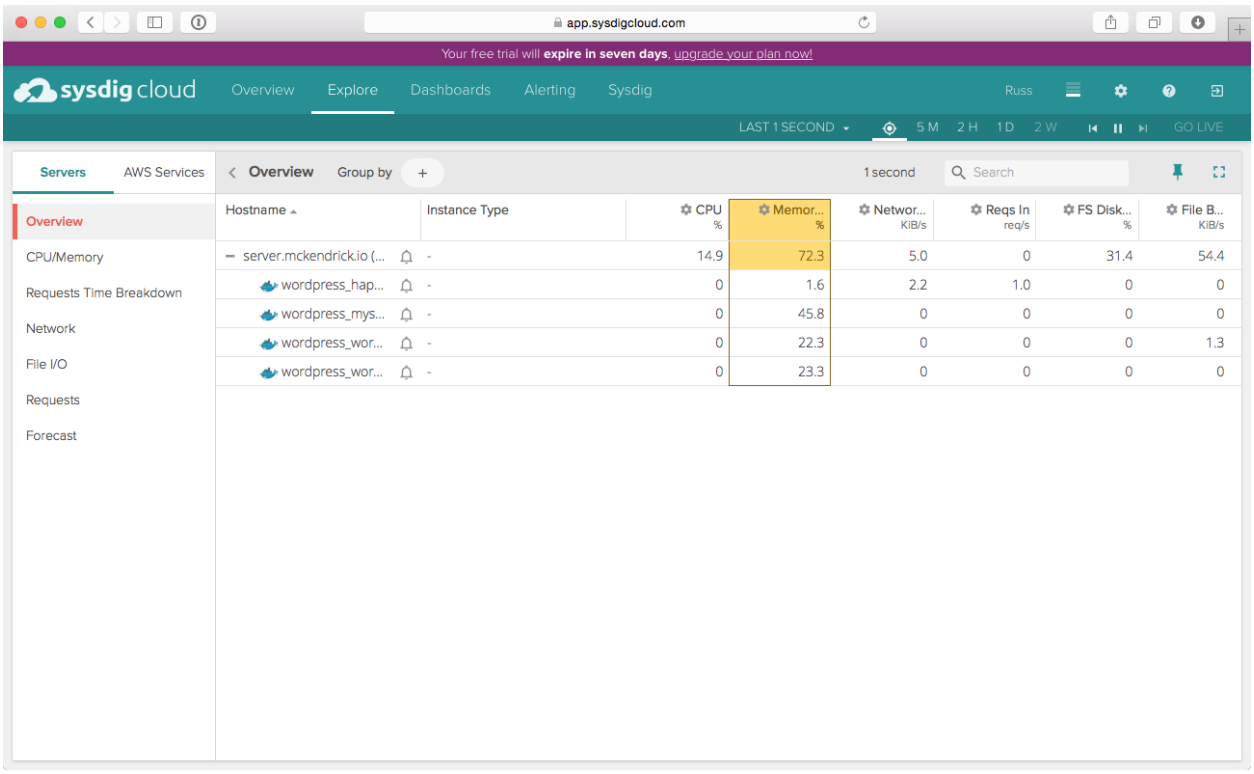

vagrant@docker:~ — ssh — 136×22
Viewing: Containers For: whole machine
Source: /home/vagrant/monitoring-docker.scap (29855 evts, 35.00s) Filter: container.name != host
CPU PROCS THREADS VIRT RES FILE NET IMAGE ID NAME
0.57 8 8 2M 148K 146K 2.97K wordpress 146b7188460a wordpress_wordpress1_1
0.29 7 7 2M 136K 99K 1.74K wordpress 88069289d5eb wordpress_wordpress2_1
0.17 1 20 845K 461K 226K 4.13K mysql f45bc2b70c0f wordpress_mysql_1
0.09 2 2 87K 18K 0 1.19K tutum/haproxy 2a379cc1d556 wordpress_haproxy_1
F1Help F2Views F4FilterF5Echo F6Dig F7LegendCTRL+FSearchp Pause
2/4(50.0%)


vagrant@docker:~ — ssh — 136×34
Viewing: I/O activity For: container.id="88069289d5eb" and proc.pid=14565
Source: /home/vagrant/monitoring-docker.scap (29855 evts, 35.00s) Filter: ((container.name != host) and container.id="88069289d5eb") an
------ Read 867B from 172.17.0.14:54703->172.17.0.13:80 (apache2)
GET / HTTP/1.1..Host: docker.media-glass.es..Accept: text/html,application/xhtml
------ Read 235B from /var/www/html/.htaccess (apache2)
BEGIN WordPress.<IfModule mod_rewrite.c>.RewriteEngine On.RewriteBase /.Rewrit
------ Read 610B from /etc/hosts (apache2)
172.17.0.13.88069289d5eb.127.0.0.1.localhost.::1.localhost ip6-localhost ip6-loo
------ Read 4B from 172.17.0.13:42895->172.17.0.11:3306 (apache2)
J...
------ Read 74B from 172.17.0.13:42895->172.17.0.11:3306 (apache2)
.5.6.26.....':.x31?(.................Hp}DxQkF]~$6.mysql_native_password.
------ Write 107B to 172.17.0.13:42895->172.17.0.11:3306 (apache2)
g.....root...d...8...G.....5...mysql_native_pass
------ Read 4B from 172.17.0.13:42895->172.17.0.11:3306 (apache2)
....
------ Read 7B from 172.17.0.13:42895->172.17.0.11:3306 (apache2)
F1Help F2View AsCTRL+FSearchp Pause BakBack c Clear CTRL+GGoto
0/420(0.0%)

Chapter 6: Exploring Third Party Options



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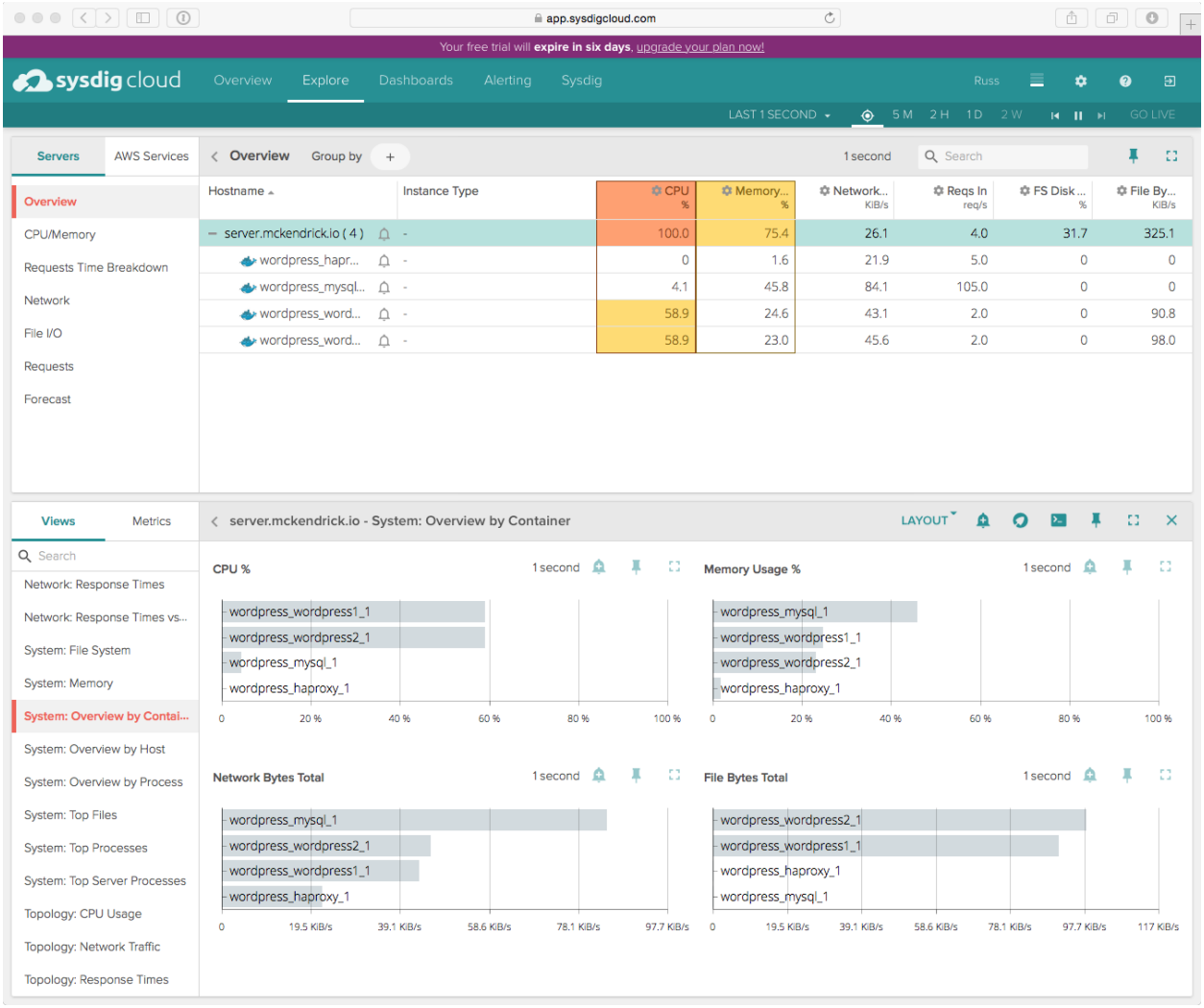
Overview
Explore
Dashboards
Alerting
Sysdig
Russ
LAST 1 SECOND
5 M
2 H
1 D
2 W
GO LIVE
Servers
AWS Services
Overview
CPU/Memory
Requests Time Breakdown
Network
File I/O
Requests
Forecast
Overview
Group by
1 second
Search
Hostname
Instance Type
CPU %
Memor... %
Networ... KiB/s
Reqs In req/s
FS Disk... %
File B... KiB/s
server.mckendrick.io (...
14.9
72.3
5.0
0
31.4
54.4
wordpress_hap...
0
1.6
2.2
1.0
0
0
wordpress_mys...
0
45.8
0
0
0
0
wordpress_wor...
0
22.3
0
0
0
1.3
wordpress_wor...
0
23.3
0
0
0
0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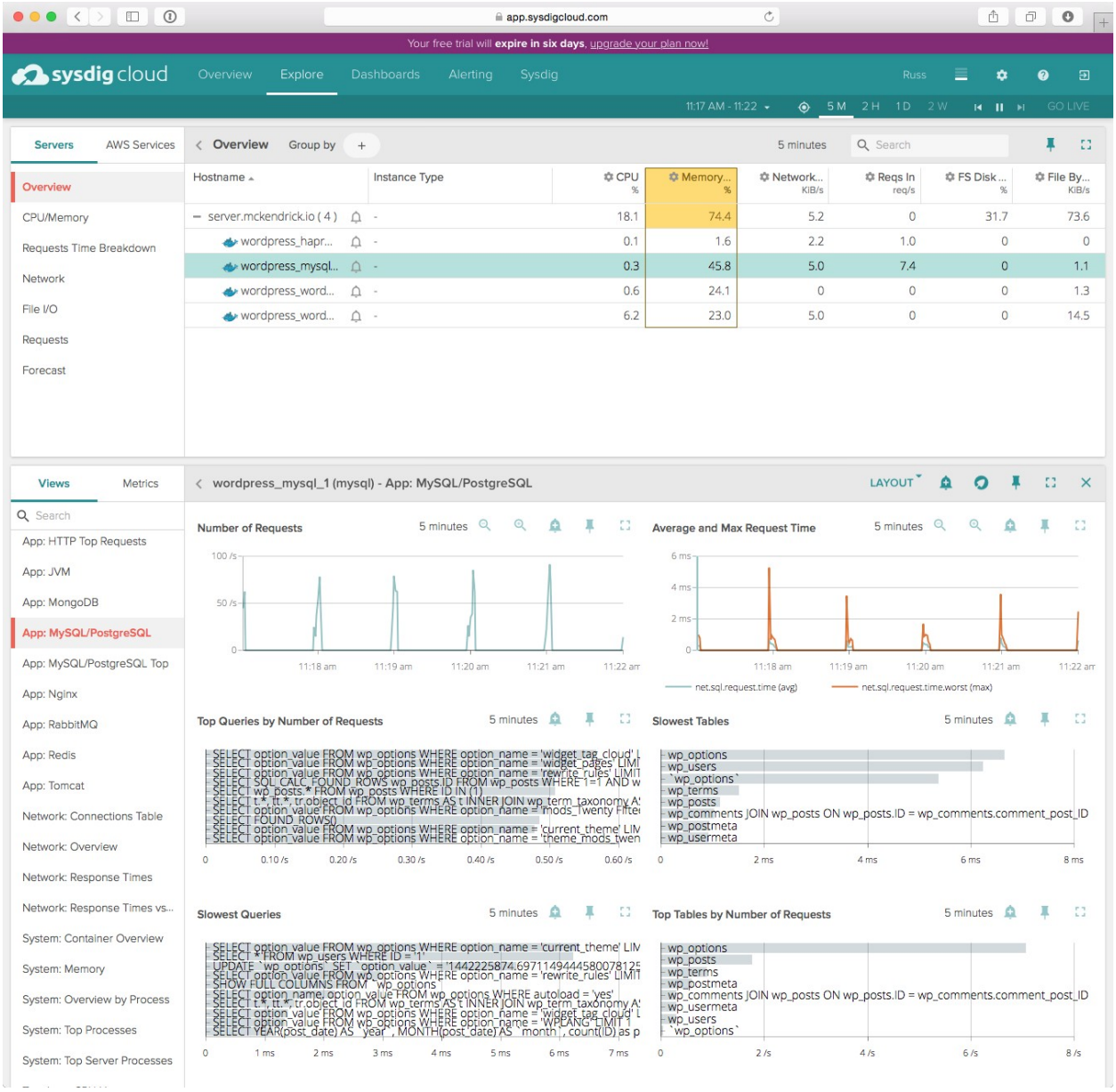
Overview
Explore
Dashboards
Alerting
Sysdig
Russ
LAST 1 SECOND
5 M
2 H
1 D
2 W
GO LIVE
Servers
AWS Services
Overview
Group by
1 second
Search
Overview
CPU/Memory
Requests Time Breakdown
Network
File I/O
Requests
Forecast
Hostname
Instance Type
CPU %
Memory... %
Network... KiB/s
Reqs In req/s
FS Disk ... %
File By... KiB/s
server.mckendrick.io (4)
100.0
75.4
26.1
4.0
31.7
325.1
wordpress_hapr...
0
1.6
21.9
5.0
0
0
wordpress_mysql...
4.1
45.8
84.1
105.0
0
0
wordpress_word...
58.9
24.6
43.1
2.0
0
90.8
wordpress_word...
58.9
23.0
45.6
2.0
0
98.0
Views
Metrics
Search
Network: Response Times
Network: Response Times vs...
System: File System
System: Memory
System: Overview by Contai...
System: Overview by Host
System: Overview by Process
System: Top Files
System: Top Processes
System: Top Server Processes
Topology: CPU Usage
Topology: Network Traffic
Topology: Response Times
server.mckendrick.io - System: Overview by Container
LAYOUT
CPU %
1 second
wordpress_wordpress1_1
wordpress_wordpress2_1
wordpress_mysql_1
wordpress_haproxy_1
0
20 %
40 %
60 %
80 %
100 %
Memory Usage %
1 second
wordpress_mysql_1
wordpress_wordpress1_1
wordpress_wordpress2_1
wordpress_haproxy_1
0
20 %
40 %
60 %
80 %
100 %
Network Bytes Total
1 second
wordpress_mysql_1
wordpress_wordpress2_1
wordpress_wordpress1_1
wordpress_haproxy_1
0
19.5 KiB/s
39.1 KiB/s
58.6 KiB/s
78.1 KiB/s
97.7 KiB/s
File Bytes Total
1 second
wordpress_wordpress2_1
wordpress_wordpress1_1
wordpress_haproxy_1
wordpress_mysql_1
0
19.5 KiB/s
39.1 KiB/s
58.6 KiB/s
78.1 KiB/s
97.7 KiB/s
117 KiB/s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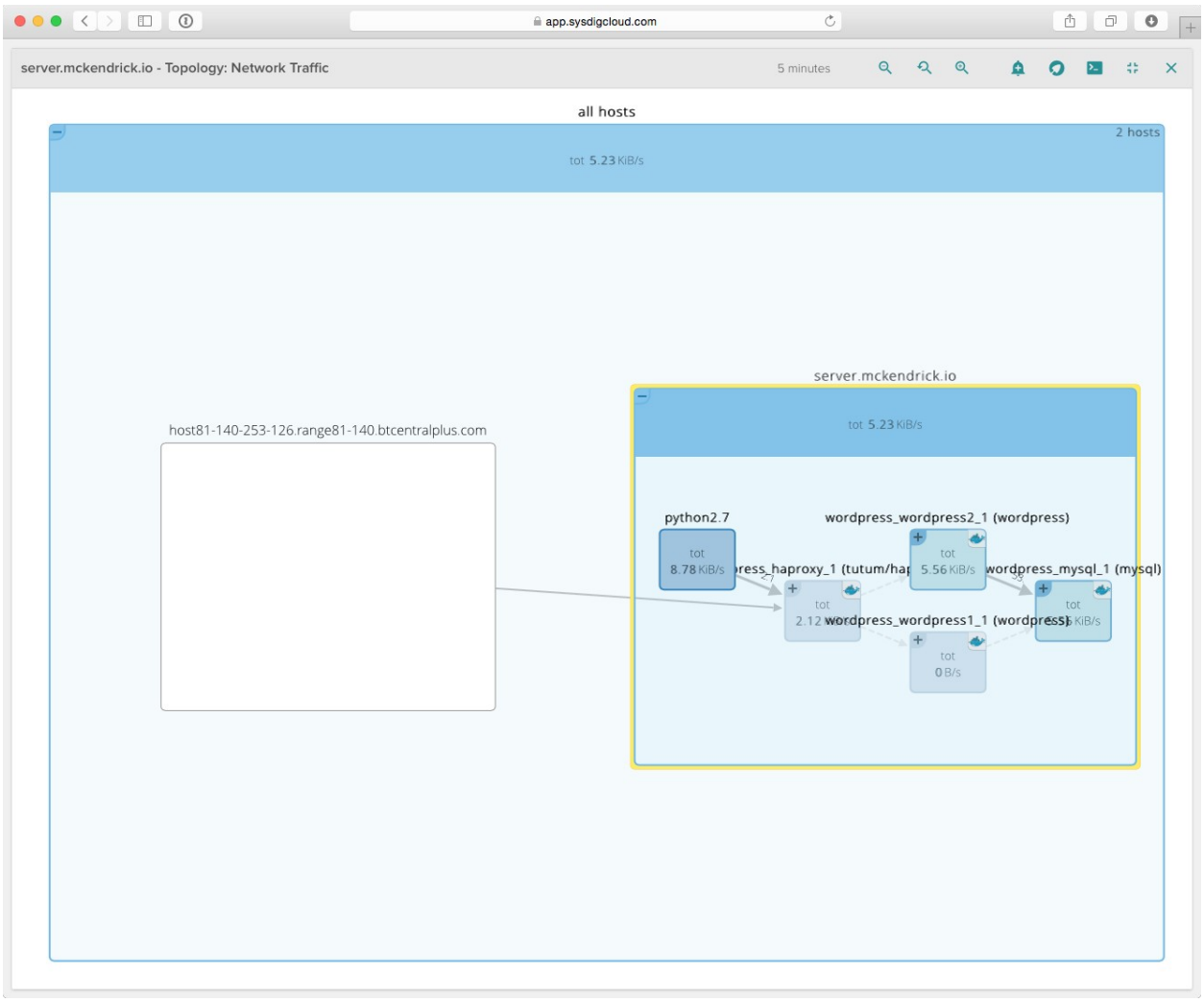
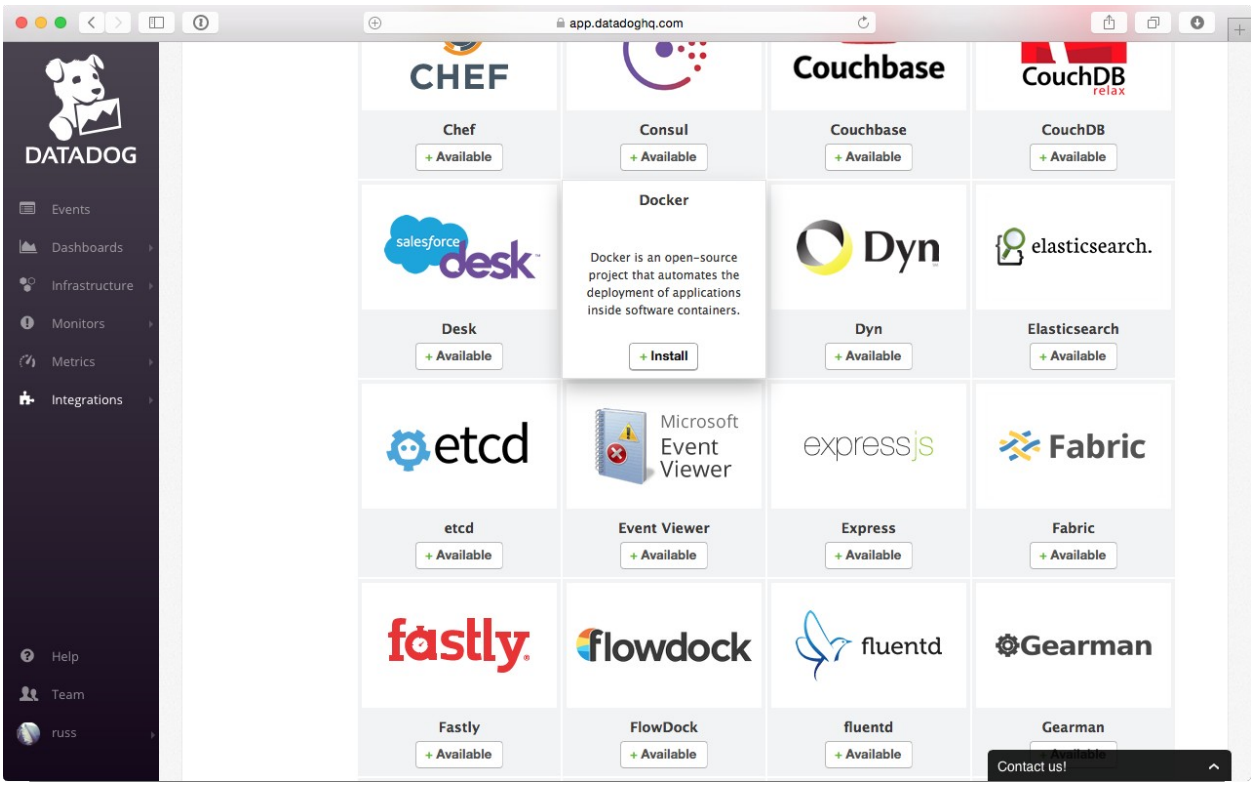
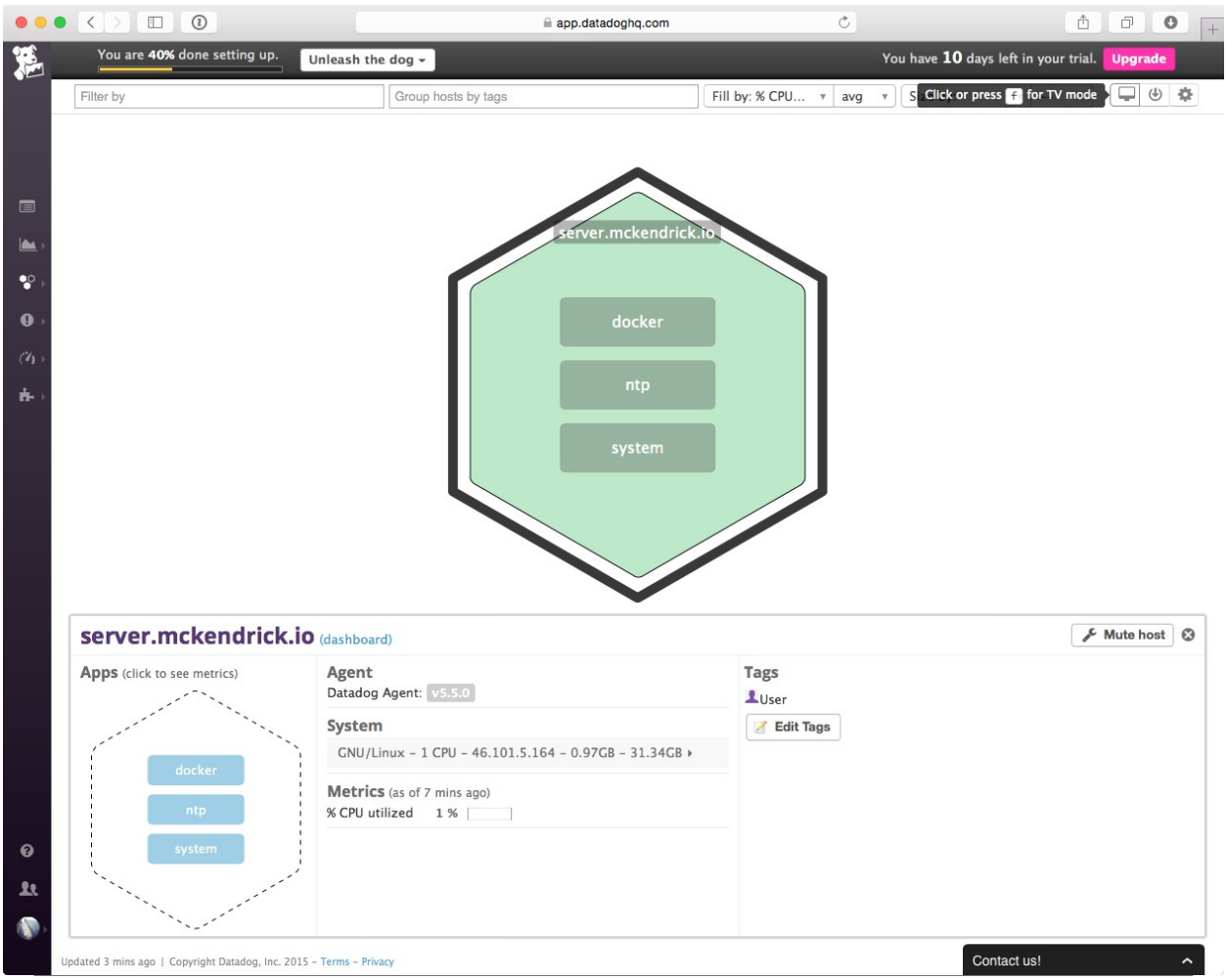
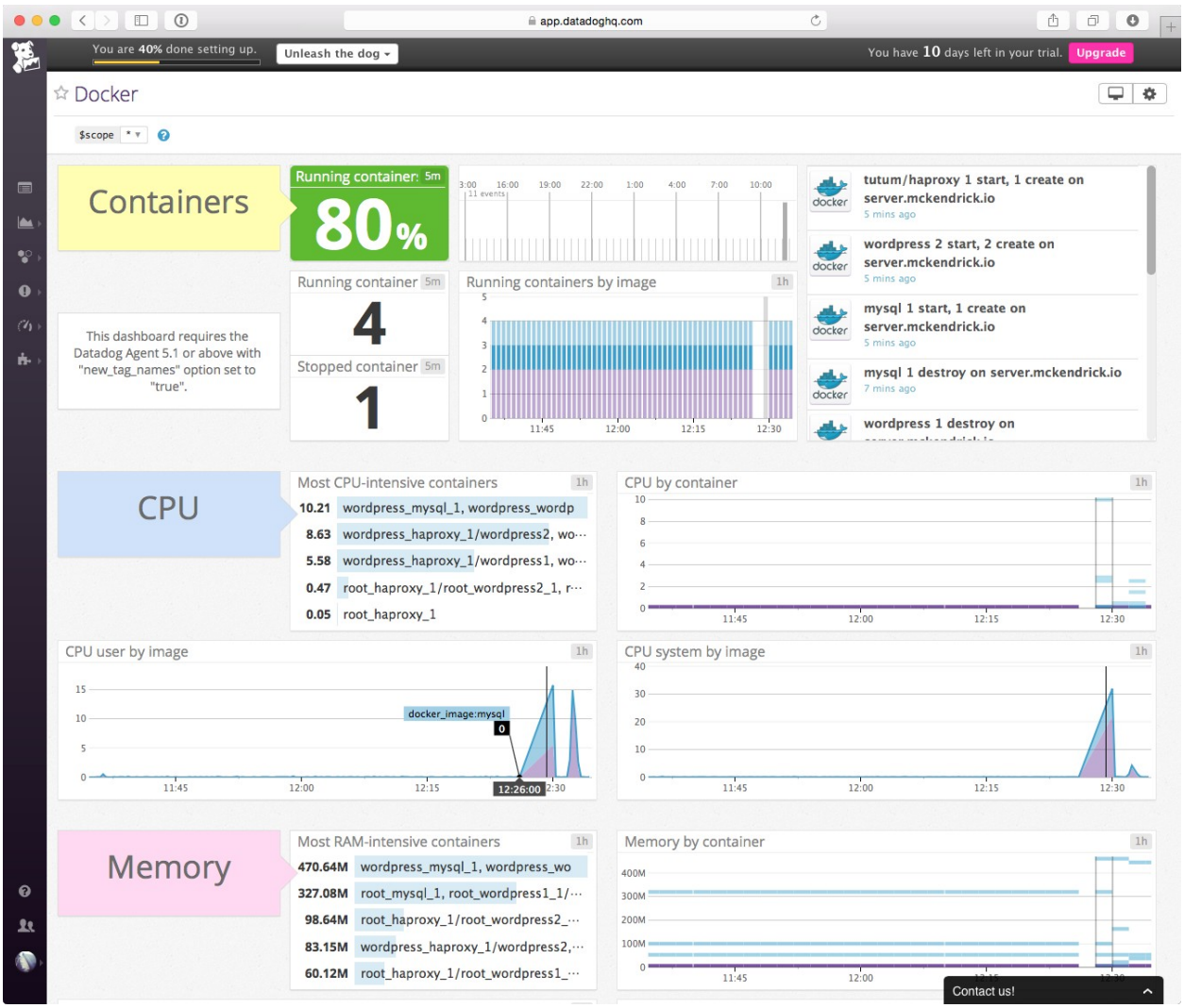
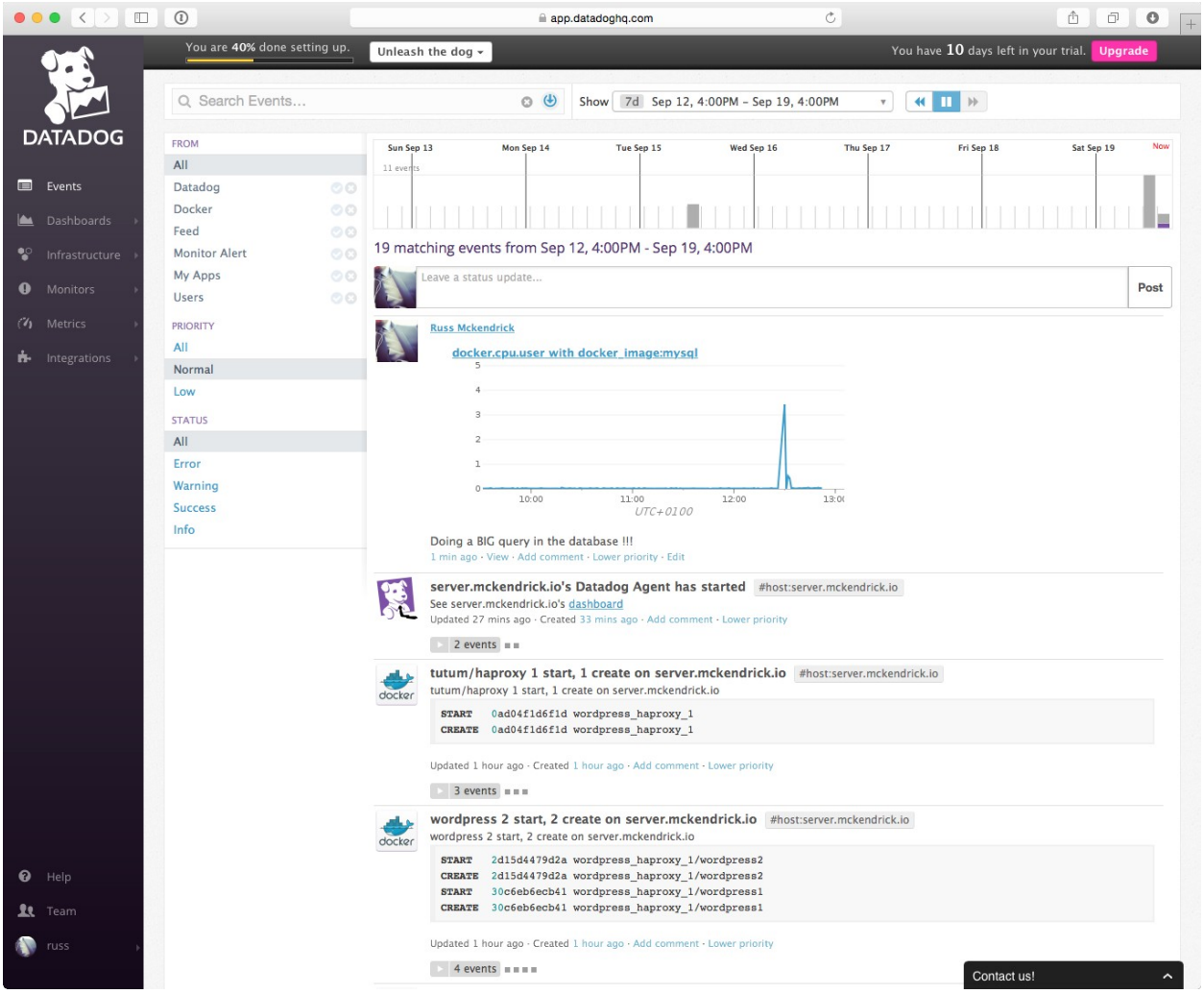
sysdig cloud
Overview
Explore
Dashboards
Alerting
Sysdig
Russ
11:17 AM - 11:22
5 M
2 H
1 D
2 W
GO LIVE
Servers
AWS Services
Overview
Group by
5 minutes
Search
Overview
CPU/Memory
Requests Time Breakdown
Network
File I/O
Requests
Forecast
Hostname
Instance Type
CPU %
Memory... %
Network... KiB/s
Reqs In req/s
FS Disk ... %
File By... KiB/s
server.mckendrick.io (4) - 18.1 74.4 5.2 0 31.7 73.6
wordpress_hapr... - 0.1 1.6 2.2 1.0 0 0
wordpress_mysql... - 0.3 45.8 5.0 7.4 0 1.1
wordpress_word... - 0.6 24.1 0 0 0 1.3
wordpress_word... - 6.2 23.0 5.0 0 0 14.5
Views
Metrics
Search
App: HTTP Top Requests
App: JVM
App: MongoDB
App: MySQL/PostgreSQL
App: MySQL/PostgreSQL Top
App: Nginx
App: RabbitMQ
App: Redis
App: Tomcat
Network: Connections Table
Network: Overview
Network: Response Times
Network: Response Times vs...
System: Container Overview
System: Memory
System: Overview by Process
System: Top Processes
System: Top Server Processes
wordpress_mysql_1 (mysql) - App: MySQL/PostgreSQL
LAYOUT
Number of Requests
5 minutes
100 /s
50 /s
0
11:18 am
11:19 am
11:20 am
11:21 am
11:22 am
Average and Max Request Time
5 minutes
6 ms
4 ms
2 ms
0
net.sql.request.time (avg)
net.sql.request.time.worst (max)
Top Queries by Number of Requests
5 minutes
SELECT option_value FROM wp_options WHERE option_name = 'widget_tag_cloud' L
SELECT option_value FROM wp_options WHERE option_name = 'widget_pages' LIMI
SELECT option_value FROM wp_options WHERE option_name = 'rewrite_rules' LIMIT
SELECT SQL_CALC_FOUND_ROWS wp_posts.ID FROM wp_posts WHERE 1=1 AND w
SELECT wp_posts.* FROM wp_posts WHERE ID IN (1)
SELECT t.*, tt.*, tr.object_id FROM wp_terms AS t INNER JOIN wp_term_taxonomy A
SELECT option_value FROM wp_options WHERE option_name = 'mods_Twenty Fifte
SELECT FOUND_ROWS()
SELECT option_value FROM wp_options WHERE option_name = 'current_theme' LIV
SELECT option_value FROM wp_options WHERE option_name = 'theme_mods_twen
0
0.10 /s
0.20 /s
0.30 /s
0.40 /s
0.50 /s
0.60 /s
Slowest Tables
5 minutes
wp_options
wp_users
`wp_options`
wp_terms
wp_posts
wp_comments JOIN wp_posts ON wp_posts.ID = wp_comments.comment_post_ID
wp_postmeta
wp_usermeta
0
2 ms
4 ms
6 ms
8 ms
Slowest Queries
5 minutes
SELECT option_value FROM wp_options WHERE option_name = 'current_theme' LIV
SELECT * FROM wp_users WHERE ID = '1'
UPDATE `wp_options` SET `option_value` = '1442225874.6971149444580078125
SELECT option_value FROM wp_options WHERE option_name = 'rewrite_rules' LIMIT
SHOW FULL COLUMNS FROM `wp_options`
SELECT option_name, option_value FROM wp_options WHERE autoload = 'yes'
SELECT t.*, tt.*, tr.object_id FROM wp_terms AS t INNER JOIN wp_term_taxonomy A
SELECT option_value FROM wp_options WHERE option_name = 'widget_tag_cloud' L
SELECT option_value FROM wp_options WHERE option_name = 'WPLANG' LIMIT 1
SELECT YEAR(post_date) AS `year`, MONTH(post_date) AS `month`, count(ID) as p
0
1 ms
2 ms
3 ms
4 ms
5 ms
6 ms
7 ms
Top Tables by Number of Requests
5 minutes
wp_options
wp_posts
wp_terms
wp_postmeta
wp_comments JOIN wp_posts ON wp_posts.ID = wp_comments.comment_post_ID
wp_usermeta
wp_users
`wp_options`
0
2 /s
4 /s
6 /s
8 /s

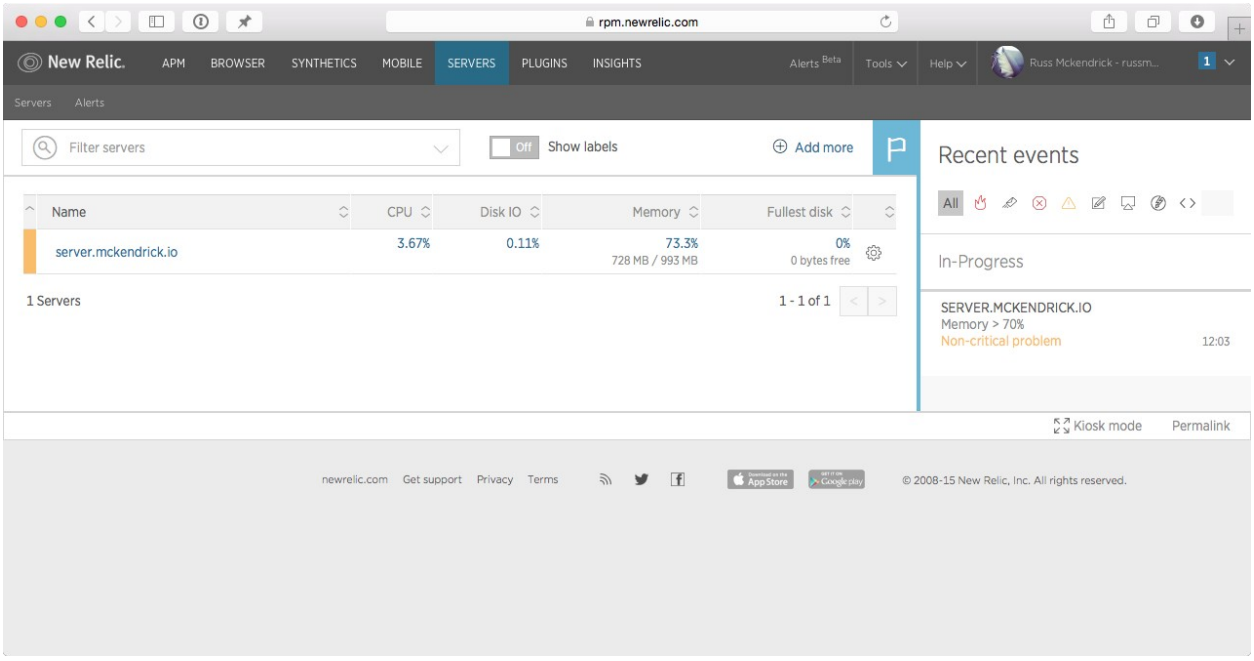

app.sysdigcloud.com
server.mckendrick.io - Topology: Network Traffic
5 minutes
all hosts
2 hosts
tot 5.23 KiB/s
server.mckendrick.io
tot 5.23 KiB/s
host81-140-253-126.range81-140.btcentralplus.com
python2.7
tot 8.78 KiB/s
wordpress_wordpress2_1 (wordpress)
tot 5.56 KiB/s
wordpress_mysql_1 (mysql)
tot 2.12
wordpress_wordpress1_1 (wordpress)
tot 0 B/s


app.datadoghq.com
DATADOG
Events
Dashboards
Infrastructure
Monitors
Metrics
Integrations
Help
Team
russ
Chef
+ Available
Consul
+ Available
Couchbase
+ Available
CouchDB
+ Available
Desk
+ Available
Docker
Docker is an open-source project that automates the deployment of applications inside software containers.
+ Install
Dyn
+ Available
Elasticsearch
+ Available
etcd
+ Available
Event Viewer
+ Available
Express
+ Available
Fabric
+ Available
Fastly
+ Available
FlowDock
+ Available
fluentd
+ Available
Gearman
Contact us!


app.datadoghq.com
You are 40% done setting up.
Unleash the dog
You have 10 days left in your trial.
Upgrade
Filter by
Group hosts by tags
Fill by: % CPU...
avg
Click or press f for TV mode
server.mckendrick.io
docker
ntp
system
server.mckendrick.io (dashboard)
Mute host
Apps (click to see metrics)
docker
ntp
system
Agent
Datadog Agent: v5.5.0
System
GNU/Linux - 1 CPU - 46.101.5.164 - 0.97GB - 31.34GB
Metrics (as of 7 mins ago)
% CPU utilized 1 %
Tags
User
Edit Tags
Updated 3 mins ago | Copyright Datadog, Inc. 2015 - Terms - Privacy
Contact us!


app.datadoghq.com
You are 40% done setting up.
Unleash the dog
You have 10 days left in your trial.
Upgrade
Docker
$scope
Containers
Running container 5m
80%
Running container 5m
4
Stopped container 5m
1
Running containers by image 1h
This dashboard requires the Datadog Agent 5.1 or above with "new_tag_names" option set to "true".
tutum/haproxy 1 start, 1 create on server.mckendrick.io
5 mins ago
wordpress 2 start, 2 create on server.mckendrick.io
5 mins ago
mysql 1 start, 1 create on server.mckendrick.io
5 mins ago
mysql 1 destroy on server.mckendrick.io
7 mins ago
wordpress 1 destroy on
CPU
Most CPU-intensive containers 1h
10.21 wordpress_mysql_1, wordpress_wordp
8.63 wordpress_haproxy_1/wordpress2, wo···
5.58 wordpress_haproxy_1/wordpress1, wo···
0.47 root_haproxy_1/root_wordpress2_1, r···
0.05 root_haproxy_1
CPU by container 1h
CPU user by image 1h
docker_image:mysql
12:26:00
CPU system by image 1h
Memory
Most RAM-intensive containers 1h
470.64M wordpress_mysql_1, wordpress_wo
327.08M root_mysql_1, root_wordpress1_1/···
98.64M root_haproxy_1/root_wordpress2_···
83.15M wordpress_haproxy_1/wordpress2,···
60.12M root_haproxy_1/root_wordpress1_···
Memory by container 1h
Contact us!


app.datadoghq.com
You are 40% done setting up.
Unleash the dog
You have 10 days left in your trial.
Upgrade
DATADOG
Search Events...
Show 7d Sep 12, 4:00PM – Sep 19, 4:00PM
Events
Dashboards
Infrastructure
Monitors
Metrics
Integrations
FROM
All
Datadog
Docker
Feed
Monitor Alert
My Apps
Users
PRIORITY
All
Normal
Low
STATUS
All
Error
Warning
Success
Info
Sun Sep 13
Mon Sep 14
Tue Sep 15
Wed Sep 16
Thu Sep 17
Fri Sep 18
Sat Sep 19
Now
19 matching events from Sep 12, 4:00PM - Sep 19, 4:00PM
Leave a status update...
Post
Russ Mckendrick
docker.cpu.user with docker_image:mysql
UTC+0100
Doing a BIG query in the database !!!
1 min ago · View · Add comment · Lower priority · Edit
server.mckendrick.io's Datadog Agent has started
#host:server.mckendrick.io
See server.mckendrick.io's dashboard
Updated 27 mins ago · Created 33 mins ago · Add comment · Lower priority
2 events
tutum/haproxy 1 start, 1 create on server.mckendrick.io
#host:server.mckendrick.io
tutum/haproxy 1 start, 1 create on server.mckendrick.io
START 0ad04f1d6f1d wordpress_haproxy_1
CREATE 0ad04f1d6f1d wordpress_haproxy_1
Updated 1 hour ago · Created 1 hour ago · Add comment · Lower priority
3 events
wordpress 2 start, 2 create on server.mckendrick.io
#host:server.mckendrick.io
wordpress 2 start, 2 create on server.mckendrick.io
START 2d15d4479d2a wordpress_haproxy_1/wordpress2
CREATE 2d15d4479d2a wordpress_haproxy_1/wordpress2
START 30c6eb6ecb41 wordpress_haproxy_1/wordpress1
CREATE 30c6eb6ecb41 wordpress_haproxy_1/wordpress1
Updated 1 hour ago · Created 1 hour ago · Add comment · Lower priority
4 events
Contact us!


rpm.newrelic.com
New Relic.
APM
BROWSER
SYNTHETICS
MOBILE
SERVERS
PLUGINS
INSIGHTS
Alerts Beta
Tools
Help
Russ Mckendrick - russm...
Servers
Alerts
Filter servers
Off
Show labels
Add more
Recent events
All
Name
CPU
Disk IO
Memory
Fullest disk
server.mckendrick.io
3.67%
0.11%
73.3%
728 MB / 993 MB
0%
0 bytes free
1 Servers
1 - 1 of 1
In-Progress
SERVER.MCKENDRICK.IO
Memory > 70%
Non-critical problem
12:03
Kiosk mode
Permalink
newrelic.com
Get support
Privacy
Terms
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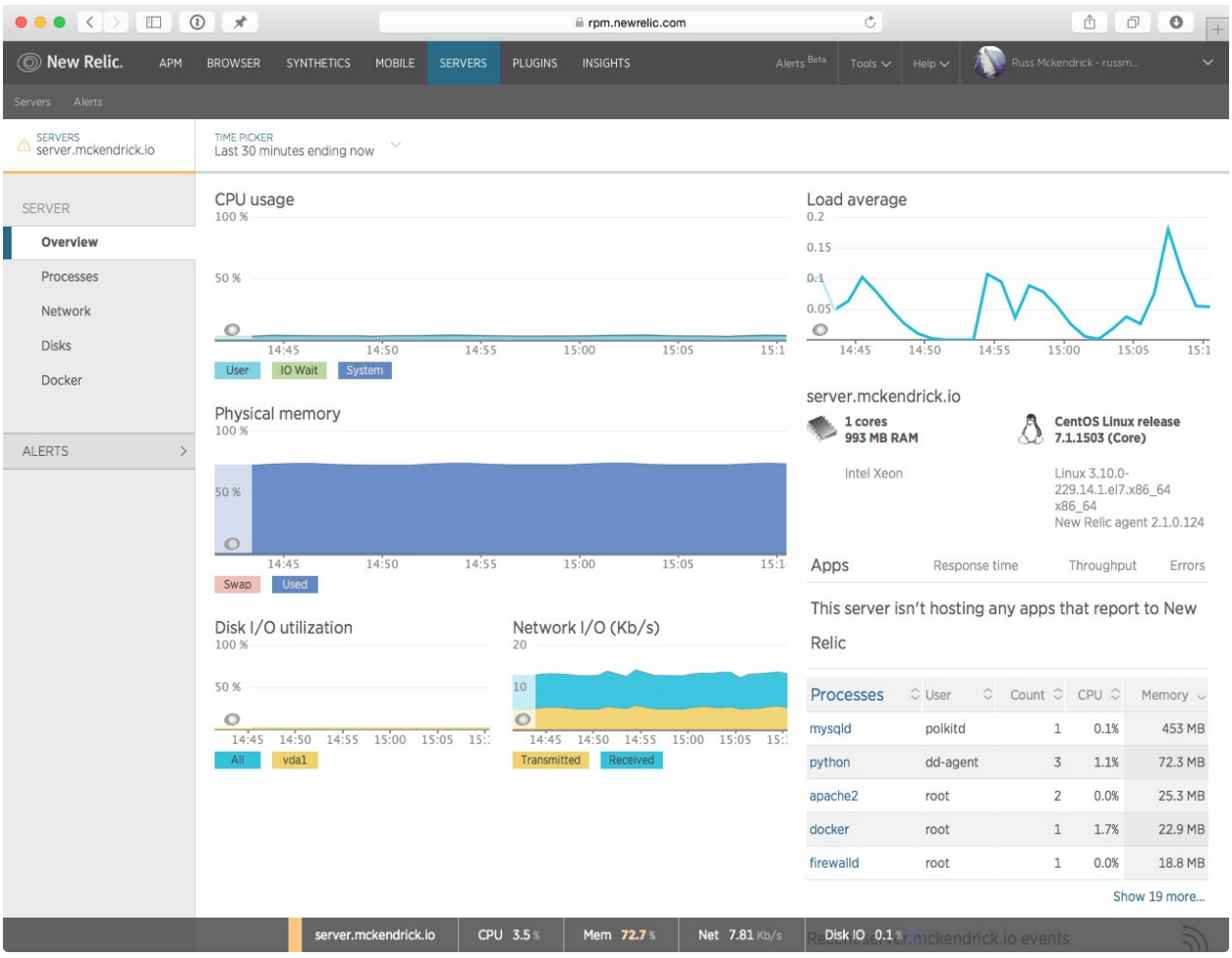
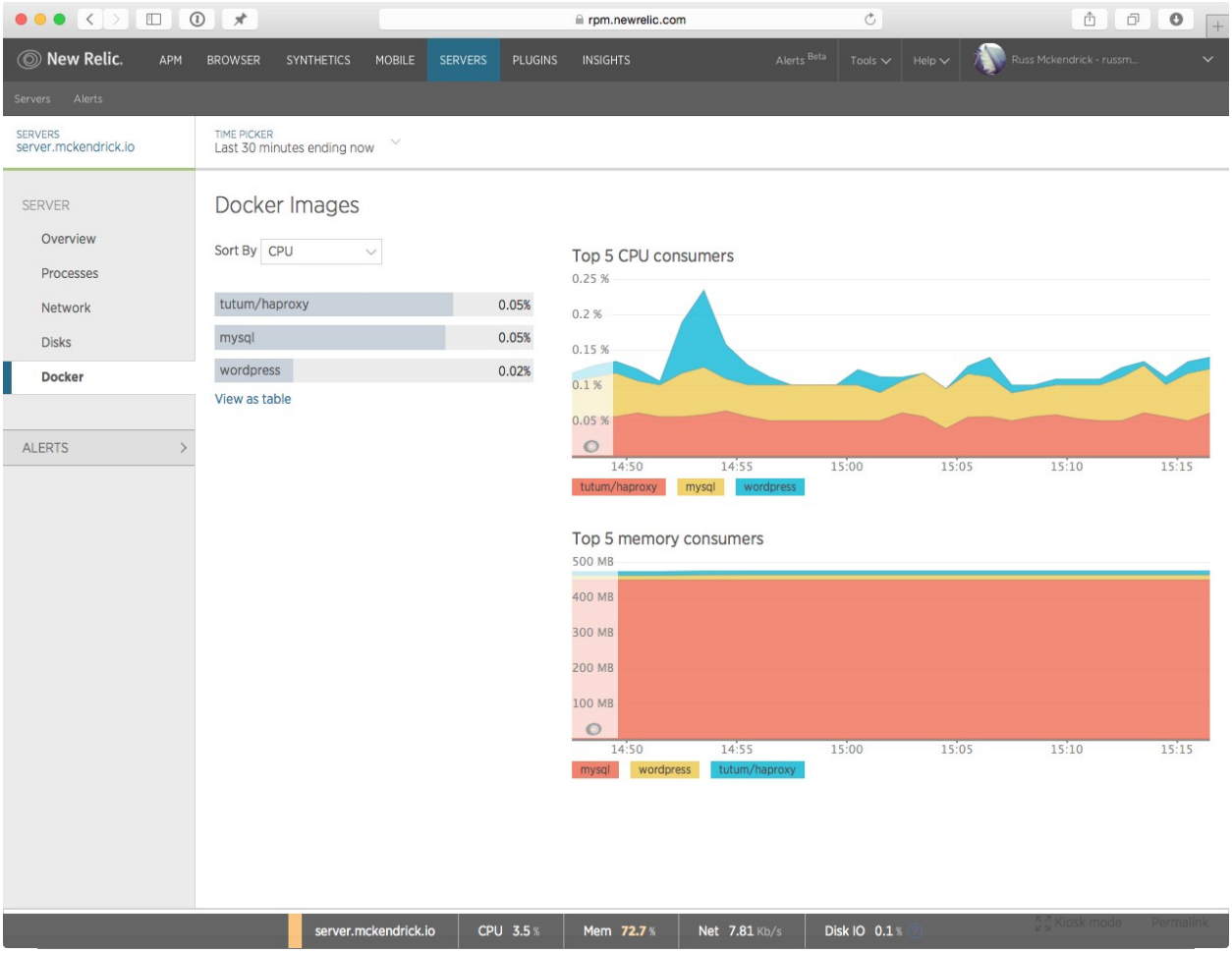

rpm.newrelic.com
New Relic.
APM
BROWSER
SYNTHETICS
MOBILE
SERVERS
PLUGINS
INSIGHTS
Alerts Beta
Tools
Help
Russ Mckendrick - russm...
Servers
Alerts
SERVERS
server.mckendrick.io
TIME PICKER
Last 30 minutes ending now
SERVER
Overview
Processes
Network
Disks
Docker
ALERTS
CPU usage
100 %
50 %
14:45
14:50
14:55
15:00
15:05
User
IO Wait
System
Load average
0.2
0.15
0.1
0.05
Physical memory
Swap
Used
Disk I/O utilization
All
vda1
Network I/O (Kb/s)
20
10
Transmitted
Received
server.mckendrick.io
1 cores
993 MB RAM
CentOS Linux release
7.1.1503 (Core)
Intel Xeon
Linux 3.10.0-
229.14.1.el7.x86_64
x86_64
New Relic agent 2.1.0.124
Apps
Response time
Throughput
Errors
This server isn't hosting any apps that report to New Relic
Processes
User
Count
CPU
Memory
mysqld
polkitd
1
0.1%
453 MB
python
dd-agent
3
1.1%
72.3 MB
apache2
root
2
0.0%
25.3 MB
docker
root
1
1.7%
22.9 MB
firewalld
root
1
0.0%
18.8 MB
Show 19 more...
server.mckendrick.io
CPU 3.5 %
Mem 72.7 %
Net 7.81 Kb/s
Disk IO 0.1 %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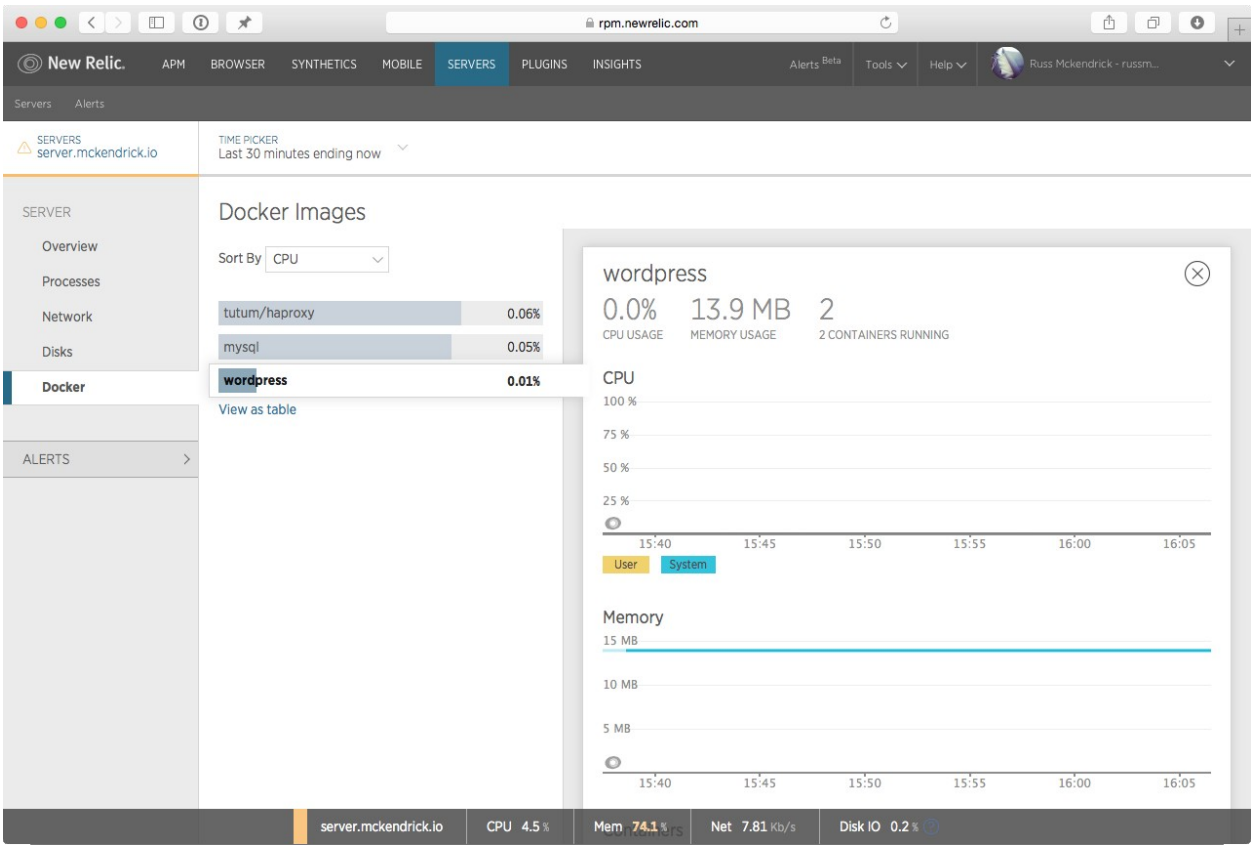
New Relic.
APM
BROWSER
SYNTHETICS
MOBILE
SERVERS
PLUGINS
INSIGHTS
Alerts Beta
Tools
Help
Russ Mckendrick - russm...
Servers
Alerts
SERVERS
server.mckendrick.io
TIME PICKER
Last 30 minutes ending now
SERVER
Overview
Processes
Network
Disks
Docker
ALERTS
Docker Images
Sort By CPU
tutum/haproxy 0.05%
mysql 0.05%
wordpress 0.02%
View as table
Top 5 CPU consumers
0.25 %
0.2 %
0.15 %
0.1 %
0.05 %
14:50
14:55
15:00
15:05
15:10
15:15
tutum/haproxy
mysql
wordpress
Top 5 memory consumers
500 MB
400 MB
300 MB
200 MB
100 MB
14:50
14:55
15:00
15:05
15:10
15:15
mysql
wordpress
tutum/haproxy
server.mckendrick.io
CPU 3.5 %
Mem 72.7 %
Net 7.81 Kb/s
Disk IO 0.1 %
Kiosk mode
Permalink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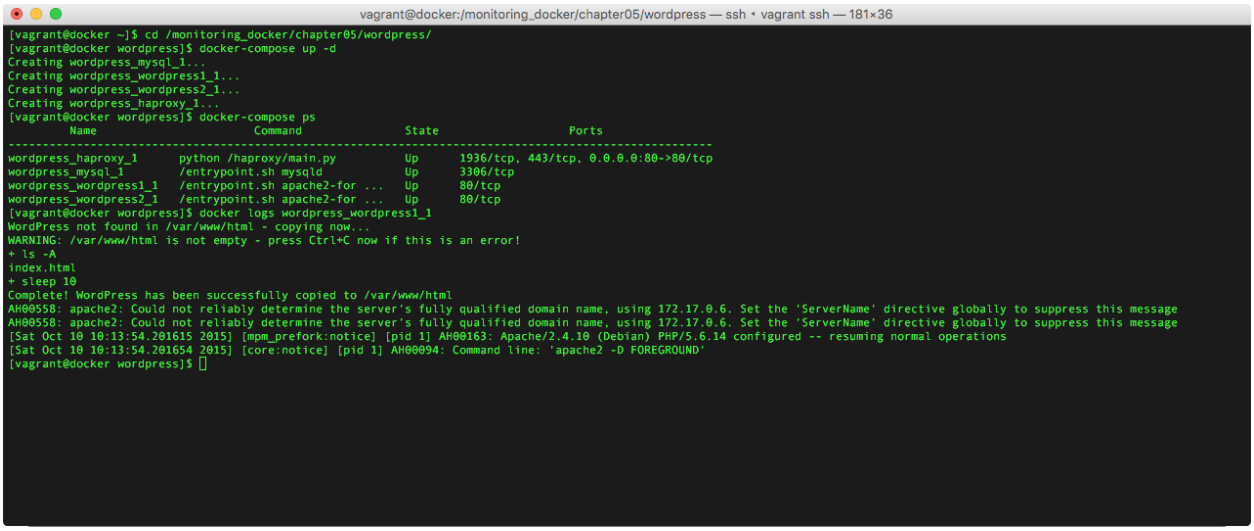
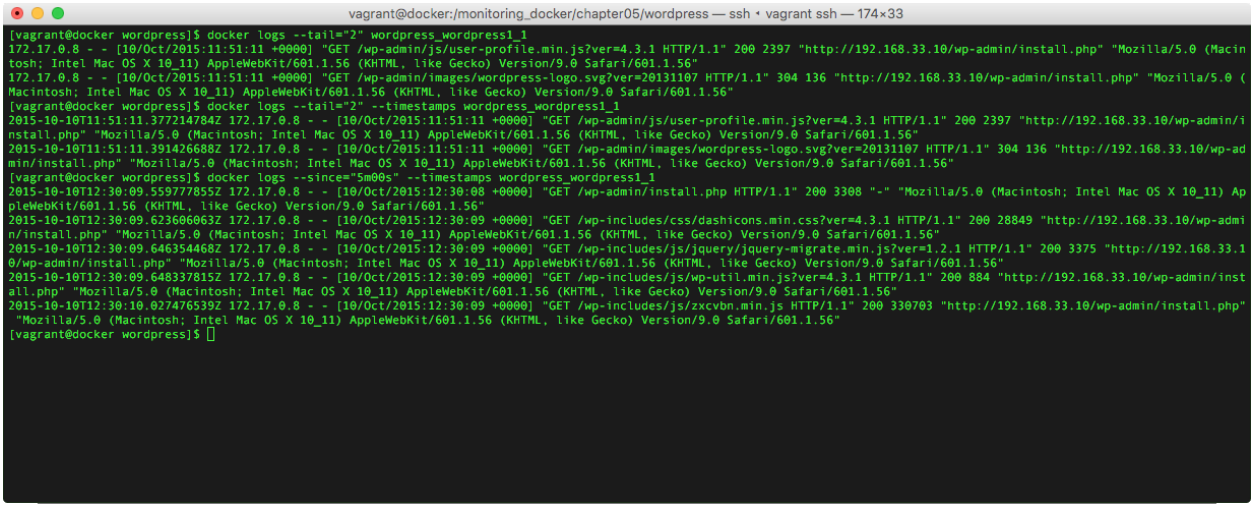
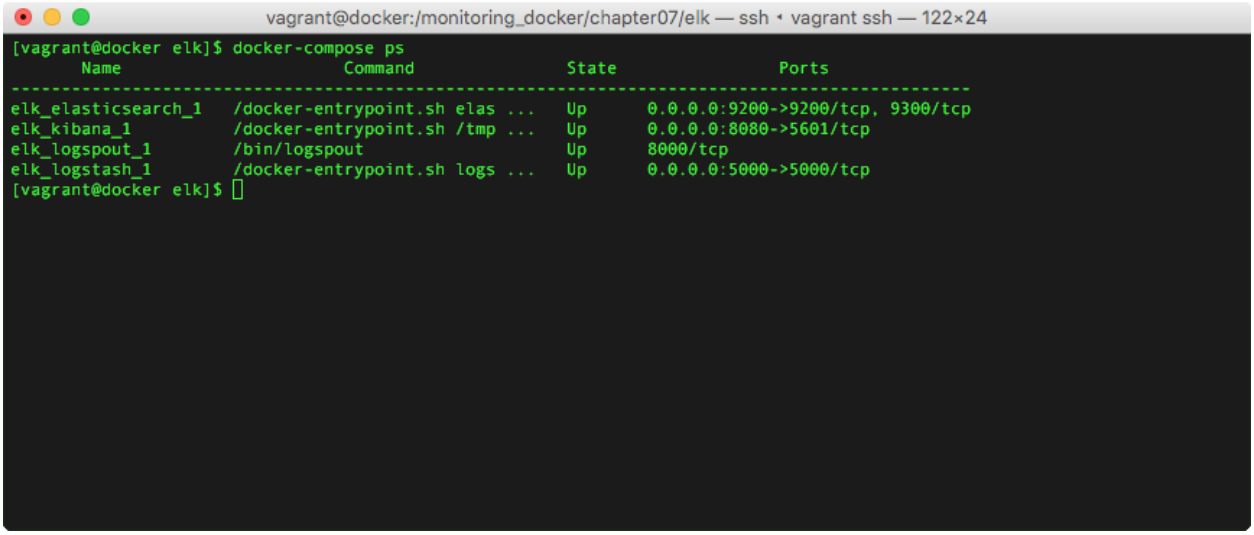
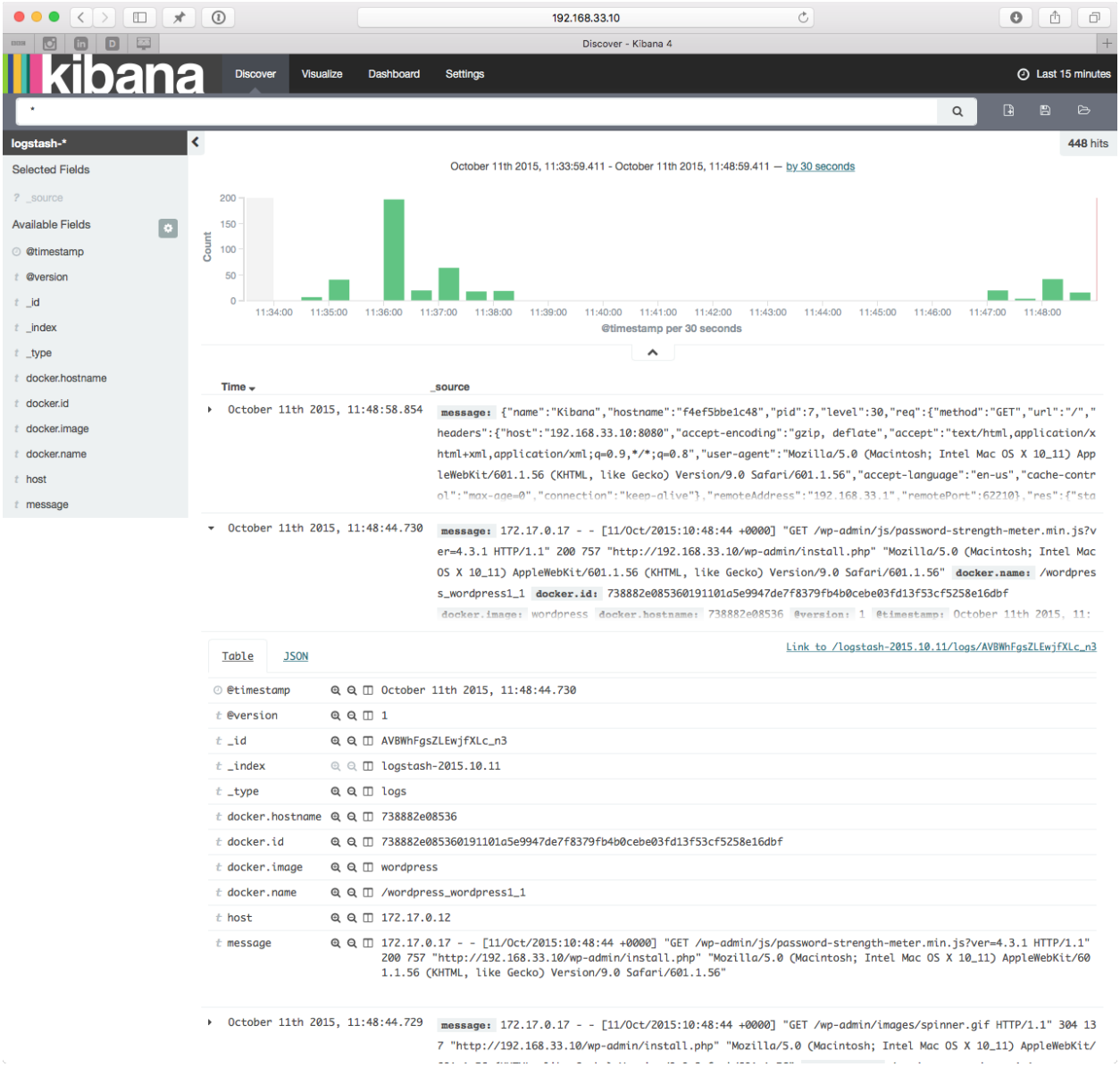
APM
BROWSER
SYNTHETICS
MOBILE
SERVERS
PLUGINS
INSIGHTS
Alerts Beta
Tools
Help
Russ Mckendrick - russm...
Servers
Alerts
SERVERS
server.mckendrick.io
TIME PICKER
Last 30 minutes ending now
SERVER
Overview
Processes
Network
Disks
Docker
ALERTS
Docker Images
Sort By
CPU
tutum/haproxy
0.06%
mysql
0.05%
wordpress
0.01%
View as table
wordpress
0.0%
CPU USAGE
13.9 MB
MEMORY USAGE
2
2 CONTAINERS RUNNING
CPU
100 %
75 %
50 %
25 %
15:40
15:45
15:50
15:55
16:00
16:05
User
System
Memory
15 MB
10 MB
5 MB
15:40
15:45
15:50
15:55
16:00
16:05
server.mckendrick.io
CPU 4.5 %
Mem 74.1 %
Net 7.81 Kb/s
Disk IO 0.2 %

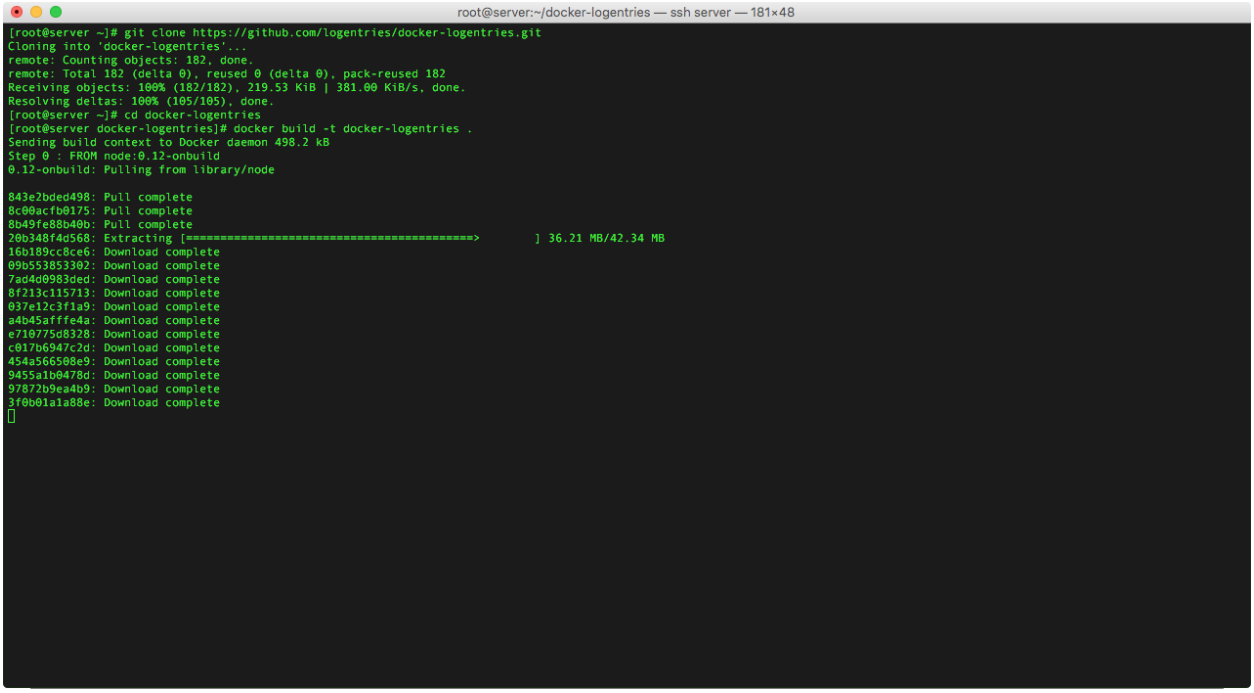
Chapter 7: Collecting Application Logs from within the Container

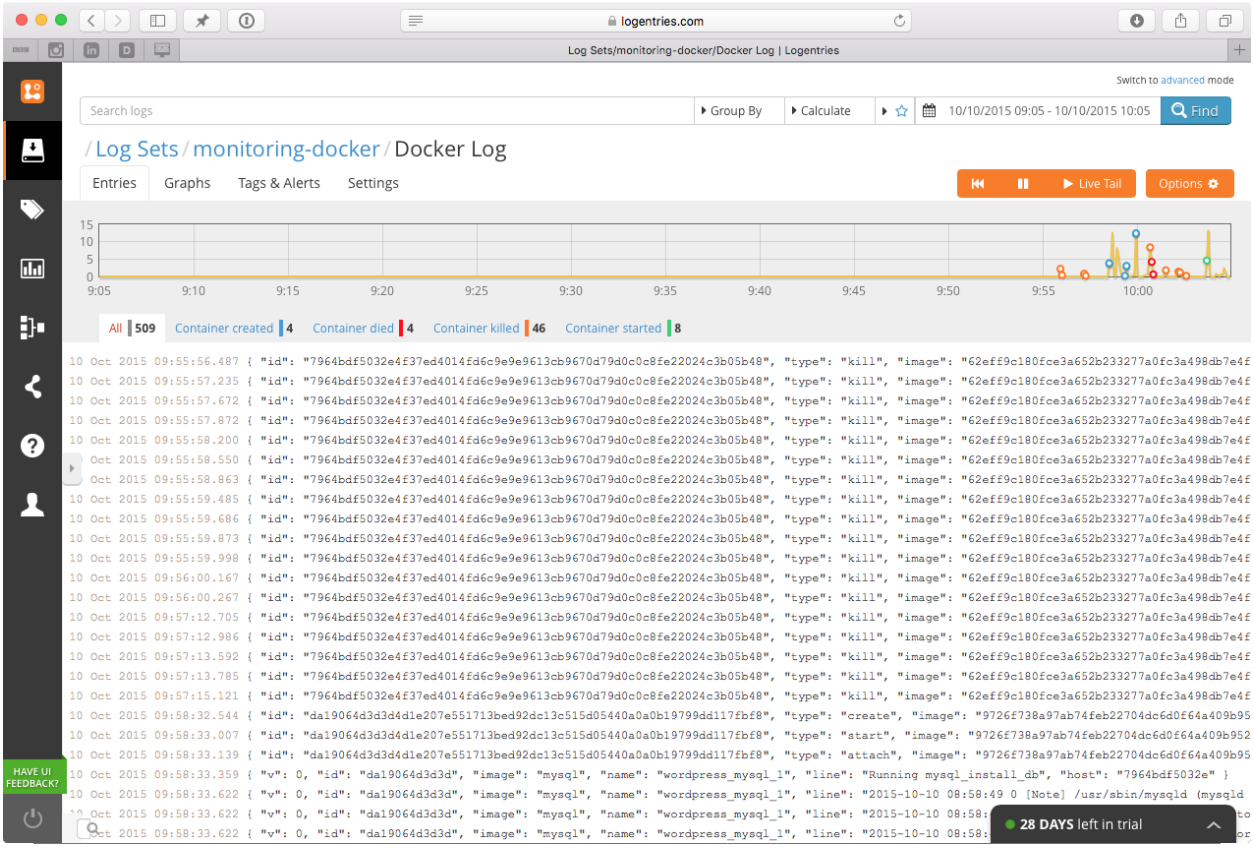





vagrant@docker:/monitoring_docker/chapter07/elk — ssh • vagrant ssh — 122×24
[vagrant@docker elk]$ docker-compose ps
Name Command State Ports
elk_elasticsearch_1 /docker-entrypoint.sh elas ... Up 0.0.0.0:9200->9200/tcp, 9300/tcp
elk_kibana_1 /docker-entrypoint.sh /tmp ... Up 0.0.0.0:8080->5601/tcp
elk_logspout_1 /bin/logspout Up 8000/tcp
elk_logstash_1 /docker-entrypoint.sh logs ... Up 0.0.0.0:5000->5000/tcp
[vagrant@docker elk]$


192.168.33.10
Discover - Kibana 4
kibana
Discover
Visualize
Dashboard
Settings
Last 15 minutes
logstash-*
448 hits
Selected Fields
_source
Available Fields
@timestamp
@version
_id
_index
_type
docker.hostname
docker.id
docker.image
docker.name
host
message
October 11th 2015, 11:33:59.411 - October 11th 2015, 11:48:59.411 — by 30 seconds
Count
@timestamp per 30 seconds
Time
_source
October 11th 2015, 11:48:58.854
message: {"name":"Kibana","hostname":"f4ef5bbe1c48","pid":7,"level":30,"req":{"method":"GET","url":"/","headers":{"host":"192.168.33.10:8080","accept-encoding":"gzip, deflate","accept":"text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8","user-agent":"Mozilla/5.0 (Macintosh; Intel Mac OS X 10_11) AppleWebKit/601.1.56 (KHTML, like Gecko) Version/9.0 Safari/601.1.56","accept-language":"en-us","cache-control":"max-age=0","connection":"keep-alive"},"remoteAddress":"192.168.33.1","remotePort":62201,"res":{"sta
October 11th 2015, 11:48:44.730
message: 172.17.0.17 - - [11/Oct/2015:10:48:44 +0000] "GET /wp-admin/js/password-strength-meter.min.js?ver=4.3.1 HTTP/1.1" 200 757 "http://192.168.33.10/wp-admin/install.php" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_11) AppleWebKit/601.1.56 (KHTML, like Gecko) Version/9.0 Safari/601.1.56" docker.name: /wordpress_wordpress1_1 docker.id: 738882e085360191101a5e9947de7f8379fb4b0cebe03fd13f53cf5258e16dbf
docker.image: wordpress docker.hostname: 738882e08536 @version: 1 @timestamp: October 11th 2015, 11:
Table
JSON
Link to /logstash-2015.10.11/logs/AVBWhFgsZLEwjfXLc_n3
@timestamp October 11th 2015, 11:48:44.730
@version 1
_id AVBWhFgsZLEwjfXLc_n3
_index logstash-2015.10.11
_type logs
docker.hostname 738882e08536
docker.id 738882e085360191101a5e9947de7f8379fb4b0cebe03fd13f53cf5258e16dbf
docker.image wordpress
docker.name /wordpress_wordpress1_1
host 172.17.0.12
message 172.17.0.17 - - [11/Oct/2015:10:48:44 +0000] "GET /wp-admin/js/password-strength-meter.min.js?ver=4.3.1 HTTP/1.1" 200 757 "http://192.168.33.10/wp-admin/install.php" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_11) AppleWebKit/601.1.56 (KHTML, like Gecko) Version/9.0 Safari/601.1.56"
October 11th 2015, 11:48:44.729
message: 172.17.0.17 - - [11/Oct/2015:10:48:44 +0000] "GET /wp-admin/images/spinner.gif HTTP/1.1" 304 137 "http://192.168.33.10/wp-admin/install.php" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_11) AppleWebKit/


root@server:~/docker-logentries — ssh server — 181×48
[root@server ~]# git clone https://github.com/logentries/docker-logentries.git
Cloning into 'docker-logentries'...
remote: Counting objects: 182, done.
remote: Total 182 (delta 0), reused 0 (delta 0), pack-reused 182
Receiving objects: 100% (182/182), 219.53 KiB | 381.00 KiB/s, done.
Resolving deltas: 100% (105/105), done.
[root@server ~]# cd docker-logentries
[root@server docker-logentries]# docker build -t docker-logentries .
Sending build context to Docker daemon 498.2 kB
Step 0 : FROM node:0.12-onbuild
0.12-onbuild: Pulling from library/node
843e2bded498: Pull complete
8c00acfb0175: Pull complete
8b49fe88b40b: Pull complete
20b348f4d568: Extracting [==========>] 36.21 MB/42.34 MB
16b189cc8ce6: Download complete
09b553853302: Download complete
7ad4d0983ded: Download complete
8f213c115713: Download complete
037e12c3f1a9: Download complete
a4b45afffe4a: Download complete
e710775d8328: Download complete
c017b6947c2d: Download complete
454a566508e9: Download complete
9455a1b0478d: Download complete
97872b9ea4b9: Download complete
3f0b01a1a88e: Download complete


logentries.com
Log Sets/monitoring-docker/Docker Log | Logentries
Switch to advanced mode
Search logs
Group By
Calculate
10/10/2015 09:05 - 10/10/2015 10:05
Find
/ Log Sets / monitoring-docker / Docker Log
Entries
Graphs
Tags & Alerts
Settings
Live Tail
Options
15
10
5
0
9:05
9:10
9:15
9:20
9:25
9:30
9:35
9:40
9:45
9:50
9:55
10:00
All 509
Container created 4
Container died 4
Container killed 46
Container started 8
10 Oct 2015 09:55:56.487 { "id": "7964bdf5032e4f37ed4014fd6c9e9e9613cb9670d79d0c0c8fe22024c3b05b48", "type": "kill", "image": "62eff9c180fce3a652b233277a0fc3a498db7e4f
10 Oct 2015 09:55:57.235 { "id": "7964bdf5032e4f37ed4014fd6c9e9e9613cb9670d79d0c0c8fe22024c3b05b48", "type": "kill", "image": "62eff9c180fce3a652b233277a0fc3a498db7e4f
10 Oct 2015 09:55:57.672 { "id": "7964bdf5032e4f37ed4014fd6c9e9e9613cb9670d79d0c0c8fe22024c3b05b48", "type": "kill", "image": "62eff9c180fce3a652b233277a0fc3a498db7e4f
10 Oct 2015 09:55:57.872 { "id": "7964bdf5032e4f37ed4014fd6c9e9e9613cb9670d79d0c0c8fe22024c3b05b48", "type": "kill", "image": "62eff9c180fce3a652b233277a0fc3a498db7e4f
10 Oct 2015 09:55:58.200 { "id": "7964bdf5032e4f37ed4014fd6c9e9e9613cb9670d79d0c0c8fe22024c3b05b48", "type": "kill", "image": "62eff9c180fce3a652b233277a0fc3a498db7e4f
10 Oct 2015 09:55:58.550 { "id": "7964bdf5032e4f37ed4014fd6c9e9e9613cb9670d79d0c0c8fe22024c3b05b48", "type": "kill", "image": "62eff9c180fce3a652b233277a0fc3a498db7e4f
10 Oct 2015 09:55:58.863 { "id": "7964bdf5032e4f37ed4014fd6c9e9e9613cb9670d79d0c0c8fe22024c3b05b48", "type": "kill", "image": "62eff9c180fce3a652b233277a0fc3a498db7e4f
10 Oct 2015 09:55:59.485 { "id": "7964bdf5032e4f37ed4014fd6c9e9e9613cb9670d79d0c0c8fe22024c3b05b48", "type": "kill", "image": "62eff9c180fce3a652b233277a0fc3a498db7e4f
10 Oct 2015 09:55:59.686 { "id": "7964bdf5032e4f37ed4014fd6c9e9e9613cb9670d79d0c0c8fe22024c3b05b48", "type": "kill", "image": "62eff9c180fce3a652b233277a0fc3a498db7e4f
10 Oct 2015 09:55:59.873 { "id": "7964bdf5032e4f37ed4014fd6c9e9e9613cb9670d79d0c0c8fe22024c3b05b48", "type": "kill", "image": "62eff9c180fce3a652b233277a0fc3a498db7e4f
10 Oct 2015 09:55:59.998 { "id": "7964bdf5032e4f37ed4014fd6c9e9e9613cb9670d79d0c0c8fe22024c3b05b48", "type": "kill", "image": "62eff9c180fce3a652b233277a0fc3a498db7e4f
10 Oct 2015 09:56:00.167 { "id": "7964bdf5032e4f37ed4014fd6c9e9e9613cb9670d79d0c0c8fe22024c3b05b48", "type": "kill", "image": "62eff9c180fce3a652b233277a0fc3a498db7e4f
10 Oct 2015 09:56:00.267 { "id": "7964bdf5032e4f37ed4014fd6c9e9e9613cb9670d79d0c0c8fe22024c3b05b48", "type": "kill", "image": "62eff9c180fce3a652b233277a0fc3a498db7e4f
10 Oct 2015 09:57:12.705 { "id": "7964bdf5032e4f37ed4014fd6c9e9e9613cb9670d79d0c0c8fe22024c3b05b48", "type": "kill", "image": "62eff9c180fce3a652b233277a0fc3a498db7e4f
10 Oct 2015 09:57:12.986 { "id": "7964bdf5032e4f37ed4014fd6c9e9e9613cb9670d79d0c0c8fe22024c3b05b48", "type": "kill", "image": "62eff9c180fce3a652b233277a0fc3a498db7e4f
10 Oct 2015 09:57:13.592 { "id": "7964bdf5032e4f37ed4014fd6c9e9e9613cb9670d79d0c0c8fe22024c3b05b48", "type": "kill", "image": "62eff9c180fce3a652b233277a0fc3a498db7e4f
10 Oct 2015 09:57:13.785 { "id": "7964bdf5032e4f37ed4014fd6c9e9e9613cb9670d79d0c0c8fe22024c3b05b48", "type": "kill", "image": "62eff9c180fce3a652b233277a0fc3a498db7e4f
10 Oct 2015 09:57:15.121 { "id": "7964bdf5032e4f37ed4014fd6c9e9e9613cb9670d79d0c0c8fe22024c3b05b48", "type": "kill", "image": "62eff9c180fce3a652b233277a0fc3a498db7e4f
10 Oct 2015 09:58:32.544 { "id": "da19064d3d3d4d1e207e551713bed92dc13c515d05440a0a0b19799dd117fbf8", "type": "create", "image": "9726f738a97ab74feb22704dc6d0f64a409b95
10 Oct 2015 09:58:33.007 { "id": "da19064d3d3d4d1e207e551713bed92dc13c515d05440a0a0b19799dd117fbf8", "type": "start", "image": "9726f738a97ab74feb22704dc6d0f64a409b952
10 Oct 2015 09:58:33.139 { "id": "da19064d3d3d4d1e207e551713bed92dc13c515d05440a0a0b19799dd117fbf8", "type": "attach", "image": "9726f738a97ab74feb22704dc6d0f64a409b95
10 Oct 2015 09:58:33.359 { "v": 0, "id": "da19064d3d3d", "image": "mysql", "name": "wordpress_mysql_1", "line": "Running mysql_install_db", "host": "7964bdf5032e" }
10 Oct 2015 09:58:33.622 { "v": 0, "id": "da19064d3d3d", "image": "mysql", "name": "wordpress_mysql_1", "line": "2015-10-10 08:58:49 0 [Note] /usr/sbin/mysqld (mysqld
10 Oct 2015 09:58:33.622 { "v": 0, "id": "da19064d3d3d", "image": "mysql", "name": "wordpress_mysql_1", "line": "2015-10-10 08:58:
10 Oct 2015 09:58:33.622 { "v": 0, "id": "da19064d3d3d", "image": "mysql", "name": "wordpress_mysql_1", "line": "2015-10-10 08:58:
HAVE U! FEEDBACK?
28 DAYS left in trial

Chapter 8: What Are the Next Steps?

There is no image is this chapter.