

Chapter 1

```
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 04:01:84:69:b8:01 brd ff:ff:ff:ff:ff:ff
    inet 46.101.73.192/21 brd 46.101.79.255 scope global eth0
        valid_lft forever preferred_lft forever
    inet 10.16.0.12/16 scope global eth0
        valid_lft forever preferred_lft forever
    inet6 fe80::601:84ff:fe69:b801/64 scope link
        valid_lft forever preferred_lft forever
3: eth1: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 04:01:84:69:b8:02 brd ff:ff:ff:ff:ff:ff
    inet 10.131.67.168/16 brd 10.131.255.255 scope global eth1
        valid_lft forever preferred_lft forever
    inet6 fe80::601:84ff:fe69:b802/64 scope link
        valid_lft forever preferred_lft forever
```

```
root@babel:~# ip -s link
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN mode
DEFAULT group default
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    RX: bytes   packets   errors   dropped overrun mcast
        0          0          0          0          0          0
    TX: bytes   packets   errors   dropped carrier collsns
        0          0          0          0          0          0
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast stat
e UP mode DEFAULT group default qlen 1000
    link/ether 04:01:84:b8:01 brd ff:ff:ff:ff:ff:ff
    RX: bytes   packets   errors   dropped overrun mcast
        46976795   5860      0          0          0          0
    TX: bytes   packets   errors   dropped carrier collsns
        416308    3526      0          0          0          0
3: eth1: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast stat
e UP mode DEFAULT group default qlen 1000
    link/ether 04:01:84:b8:02 brd ff:ff:ff:ff:ff:ff
    RX: bytes   packets   errors   dropped overrun mcast
        0          0          0          0          0          0
    TX: bytes   packets   errors   dropped carrier collsns
        578       7          0          0          0          0
root@babel:~#
```

```
root@babel:~# ip -s -s link ls eth0
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast stat
e UP mode DEFAULT group default qlen 1000
    link/ether 04:01:84:69:b8:01 brd ff:ff:ff:ff:ff:ff
    RX: bytes   packets   errors   dropped overrun mcast
        46980360      5904       0       0       0       0
    RX errors: length   crc      frame   fifo   missed
              0       0       0       0       0
    TX: bytes   packets   errors   dropped carrier collsns
        422881      3563       0       0       0       0
    TX errors: aborted fifo      window heartbeat
              0       0       0       0
root@babel:~#
```

```
~ — root@babel: ~ — ssh root@46.101.73.192           ~ — root@babel: ~ — ssh root@46.101.73.192 ...  
root@babel:~# ss -t  
State      Recv-Q Send-Q      Local Address:Port      Peer Address:Port  
ESTAB      0      0      46.101.73.192:ssh      86.143.240.133:55538  
ESTAB      0      0      46.101.73.192:ssh      86.143.240.133:55518  
ESTAB      0      0      46.101.73.192:51599      91.189.91.23:http  
ESTAB      0      226     46.101.73.192:37303      103.253.144.50:http  
ESTAB      0      0      46.101.73.192:49947      5.101.111.50:http  
root@babel:~#
```

```
root@babel:~# ss -ltn
State      Recv-Q Send-Q    Local Address:Port      Peer Address:Port
LISTEN      0      128          *:22                  *:*
LISTEN      0      128      127.0.0.1:6379        *:*
LISTEN      0      128          *:80                  *:*
LISTEN      0      128          :::22                 :::*
LISTEN      0      128          :::80                 :::*
```

```
root@babel:~#
```

```

root@babel:~# vmstat 1 99999
procs -----memory----- ---swap-- -----io---- -system-- -----cpu-----
r b    swpd   free   buff   cache   si   so    bi    bo   in   cs us sy id wa st
0 0      0 60968 27480 343860   0   0    755 1565 284 875 10 4 85 2 0
0 0      0 60968 27480 343860   0   0     0    0   32 59 0 0 100 0 0
0 0      0 60968 27480 343860   0   0     0    0   26 48 0 0 100 0 0
0 0      0 60968 27480 343860   0   0     0    0   24 48 0 0 100 0 0
0 0      0 60968 27480 343860   0   0     0    0   23 48 0 0 100 0 0
0 0      0 60968 27480 343860   0   0     0    0   25 50 0 0 100 0 0
0 0      0 60968 27480 343860   0   0     0    0   26 50 0 0 100 0 0
0 0      0 60968 27480 343860   0   0     0    0   24 48 0 0 100 0 0
0 0      0 61000 27480 343860   0   0     0    0   25 48 0 0 100 0 0
0 0      0 61000 27480 343860   0   0     0    0   25 50 0 0 100 0 0
0 0      0 61000 27480 343860   0   0     0    0   24 48 0 0 100 0 0
0 0      0 61000 27480 343860   0   0     0    0   25 50 0 0 100 0 0
0 0      0 61000 27480 343860   0   0     0    0   23 45 0 1 99 0 0
0 0      0 61000 27480 343860   0   0     0    0   24 46 0 0 100 0 0
^C
root@babel:~# 
```

```

root@babel:~# vmstat -a 1 99999
procs -----memory----- ---swap-- -----io---- -system-- -----cpu-----
r b    swpd   free  inact active   si   so    bi    bo   in   cs us sy id wa st
2 0      0 61020 174828 212100   0   0    615 1273 235 719 8 3 88 1 0
0 0      0 61012 174828 212104   0   0     0    0   22 41 0 0 100 0 0
0 0      0 61044 174828 212104   0   0     0    0   19 38 0 0 100 0 0
0 0      0 61044 174828 212104   0   0     0    0   18 38 0 0 100 0 0
0 0      0 61044 174828 212104   0   0     0    0   22 40 1 1 98 0 0
0 0      0 61044 174828 212104   0   0     0    0   21 40 0 0 100 0 0
0 0      0 61044 174828 212104   0   0     0    0   19 34 0 0 100 0 0
0 0      0 61044 174828 212104   0   0     0    0   19 34 0 0 100 0 0
0 0      0 61076 174828 212104   0   0     0    0   19 34 0 0 100 0 0
0 0      0 61076 174828 212104   0   0     0    0   21 40 0 0 100 0 0
0 0      0 60884 174828 212104   0   0     0    0   19 34 0 0 100 0 0
0 0      0 60884 174828 212104   0   0     0    0   19 34 0 0 100 0 0
0 0      0 60884 174828 212104   0   0     0    0   19 34 0 0 100 0 0
0 0      0 60884 174828 212104   0   0     0    0   21 36 0 1 99 0 0

```

```
root@babel:~# vmstat -d 1 99999
disk- -----reads----- -----writes----- -----IO-----
      total merged sectors      ms      total merged sectors      ms      cur      sec
ram0      0      0      0      0      0      0      0      0      0      0      0
ram1      0      0      0      0      0      0      0      0      0      0      0
ram2      0      0      0      0      0      0      0      0      0      0      0
ram3      0      0      0      0      0      0      0      0      0      0      0
ram4      0      0      0      0      0      0      0      0      0      0      0
ram5      0      0      0      0      0      0      0      0      0      0      0
ram6      0      0      0      0      0      0      0      0      0      0      0
ram7      0      0      0      0      0      0      0      0      0      0      0
ram8      0      0      0      0      0      0      0      0      0      0      0
ram9      0      0      0      0      0      0      0      0      0      0      0
ram10     0      0      0      0      0      0      0      0      0      0      0
ram11     0      0      0      0      0      0      0      0      0      0      0
ram12     0      0      0      0      0      0      0      0      0      0      0
ram13     0      0      0      0      0      0      0      0      0      0      0
ram14     0      0      0      0      0      0      0      0      0      0      0
ram15     0      0      0      0      0      0      0      0      0      0      0
loop0     0      0      0      0      0      0      0      0      0      0      0
loop1     0      0      0      0      0      0      0      0      0      0      0
loop2     0      0      0      0      0      0      0      0      0      0      0
loop3     0      0      0      0      0      0      0      0      0      0      0
```

The output of vmstat can be slightly different. You can widen the

line cycles

```

root@babel:~# iostat 1 9999
Linux 3.13.0-57-generic (babel)           11/08/2015      _x86_64_
                                         (1 CPU)

avg-cpu: %user  %nice %system %iowait  %steal  %idle
          5.28    0.16   2.24   11.49    0.00   80.84

Device:         tps   kB_read/s   kB_wrtn/s   kB_read   kB_wrtn
vda            33.74     381.72     861.63   425621   960728

avg-cpu: %user  %nice %system %iowait  %steal  %idle
          0.99    0.00   0.00   0.00    0.00   99.01

Device:         tps   kB_read/s   kB_wrtn/s   kB_read   kB_wrtn
vda            0.00     0.00     0.00       0          0          0

avg-cpu: %user  %nice %system %iowait  %steal  %idle
          0.00    0.00   1.00   0.00    0.00   99.00

Device:         tps   kB_read/s   kB_wrtn/s   kB_read   kB_wrtn
vda            0.00     0.00     0.00       0          0          0

^C
root@babel:~# 
```

Line Cycles							
root@babel:~# sar -u							
Linux 3.13.0-57-generic (babel)				11/10/2015		_x86_64_	
						(1 CPU)	
12:00:01 AM	CPU	%user	%nice	%system	%iowait	%steal	%idle
12:05:02 AM	all	0.04	0.00	0.05	0.02	0.00	99.90
12:15:01 AM	all	0.03	0.00	0.03	0.07	0.00	99.87
12:25:01 AM	all	0.02	0.00	0.03	0.04	0.00	99.91
12:35:01 AM	all	0.03	0.00	0.03	0.03	0.00	99.91
12:45:01 AM	all	0.08	0.00	0.08	0.05	0.00	99.80
12:55:01 AM	all	0.06	0.00	0.06	0.00	0.00	99.88
01:05:01 AM	all	0.04	0.00	0.03	0.02	0.00	99.91
01:15:01 AM	all	0.06	0.00	0.06	0.15	0.00	99.73
01:25:01 AM	all	0.03	0.00	0.04	0.00	0.00	99.92
01:35:01 AM	all	0.03	0.00	0.04	0.00	0.00	99.93
01:45:01 AM	all	0.04	0.00	0.04	0.02	0.00	99.90
01:55:01 AM	all	0.04	0.00	0.03	0.00	0.00	99.93
02:05:01 AM	all	0.04	0.00	0.02	0.00	0.00	99.95
02:15:01 AM	all	0.02	0.00	0.03	0.00	0.00	99.95
02:25:01 AM	all	0.04	0.00	0.03	0.00	0.00	99.93
02:35:01 AM	all	0.03	0.00	0.04	0.00	0.00	99.93
02:45:01 AM	all	0.23	0.00	0.19	0.05	0.00	99.54
02:55:01 AM	all	0.38	0.00	0.30	0.25	0.00	99.07
03:05:01 AM	all	0.03	0.00	0.04	0.00	0.00	99.93

```
root@babel:~# sar -r
Linux 3.13.0-57-generic (babel)           11/10/2015      _x86_64_      (1 CPU)

12:00:01 AM kbmemfree kbmemused %memused kbbuffers kbcached kbcommit %commi
t kbactive kbinact kbdirty
12:05:02 AM    145640    356152    70.98     86784    190900    84988    16.9
4    139404    161376        0
12:15:01 AM    145532    356260    71.00     86820    190908    84988    16.9
4    139412    161416        8
12:25:01 AM    145512    356280    71.00     86864    190916    84988    16.9
4    139424    161456        0
12:35:01 AM    145416    356376    71.02     86904    190916    84988    16.9
4    139440    161496        0
12:45:01 AM    143464    358328    71.41     87032    190952    89444    17.8
2    140720    161628       16
12:55:01 AM    145108    356684    71.08     87116    190972    86268    17.1
9    139512    161712        0
01:05:01 AM    145080    356712    71.09     87160    190972    86268    17.1
9    139532    161744       16
01:15:01 AM    144892    356900    71.13     87288    190992    86268    17.1
9    139568    161876        0
01:25:01 AM    144828    356964    71.14     87340    190996    86268    17.1
9    139564    161932        0
```

```
root@babel:~# sar -b
Linux 3.13.0-57-generic (babel)           11/10/2015      _x86_64_      (1 CPU)

12:00:01 AM      tps      rtps      wtps bread/s bwrtn/s
12:05:02 AM    0.08      0.00      0.08    0.00    1.23
12:15:01 AM    0.05      0.00      0.05    0.00    0.63
12:25:01 AM    0.07      0.00      0.07    0.00    1.05
12:35:01 AM    0.05      0.00      0.05    0.00    0.59
12:45:01 AM    0.11      0.00      0.11    0.00    1.55
12:55:01 AM    0.10      0.00      0.10    0.00    1.49
01:05:01 AM    0.05      0.00      0.05    0.00    0.59
01:15:01 AM    0.13      0.00      0.13    0.00    1.77
01:25:01 AM    0.07      0.00      0.07    0.00    0.93
01:35:01 AM    0.06      0.00      0.06    0.00    0.80
01:45:01 AM    0.07      0.00      0.07    0.00    0.85
01:55:01 AM    0.06      0.00      0.06    0.00    0.87
02:05:01 AM    0.04      0.00      0.04    0.00    0.56
02:15:01 AM    0.05      0.00      0.05    0.00    0.68
02:25:01 AM    0.08      0.00      0.08    0.00    1.16
02:35:01 AM    0.05      0.00      0.05    0.00    0.56
02:45:01 AM    0.17      0.00      0.17    0.00    2.71
02:55:01 AM    0.31      0.00      0.31    0.00    5.14
03:05:01 AM    0.05      0.00      0.05    0.00    0.68
```

```
root@babel:~# ssh-keygen -t rsa -C "My SSH Key"
Generating public/private rsa key pair.
Enter file in which to save the key (/root/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /root/.ssh/id_rsa.
Your public key has been saved in /root/.ssh/id_rsa.pub.
The key fingerprint is:
94:8f:6d:48:41:87:d8:40:e5:93:65:1a:a9:58:d2:cc My SSH Key
The key's randomart image is:
+--[ RSA 2048]----+
|      =o*=o+      |
|     . E.+X       |
|     + .0         |
|    . .o *        |
|     S +          |
|     .             |
|                 |
|                 |
|                 |
+-----+
root@babel:~#
```

```
root@babel:~# git clone https://github.com/stunthamster/docker_base.git
Cloning into 'docker_base'...
remote: Counting objects: 28, done.
remote: Total 28 (delta 0), reused 0 (delta 0), pack-reused 28
Unpacking objects: 100% (28/28), done.
Checking connectivity... done.
root@babel:~#
```

```
● ● ● .git — mduffy@babel: ~/p
mduffy@babel:~/projects/docker_base$ git remote -v
origin  https://github.com/stunthamster/docker_base.git (fetch)
origin  https://github.com/stunthamster/docker_base.git (push)
```

```
● ● ● .git — mduffy@babel: ~/pr
mduffy@babel:~/projects/docker_base$ git push origin master
Enter passphrase for key '/home/mduffy/.ssh/id_rsa':
Counting objects: 5, done.
Delta compression using up to 2 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 298 bytes | 0 bytes/s, done.
Total 3 (delta 2), reused 0 (delta 0)
To git@github.com:stunthamster/docker_base.git
  f75d776..50470b0  master -> master
```

```
● ● ● .git — mduffy@babel: ~/pr
mduffy@babel:~/projects/docker_base$ git merge newbranch
Updating 50470b0..5799d7e
Fast-forward
 README.md | 3 +--
 1 file changed, 1 insertion(+), 2 deletions(-)
```

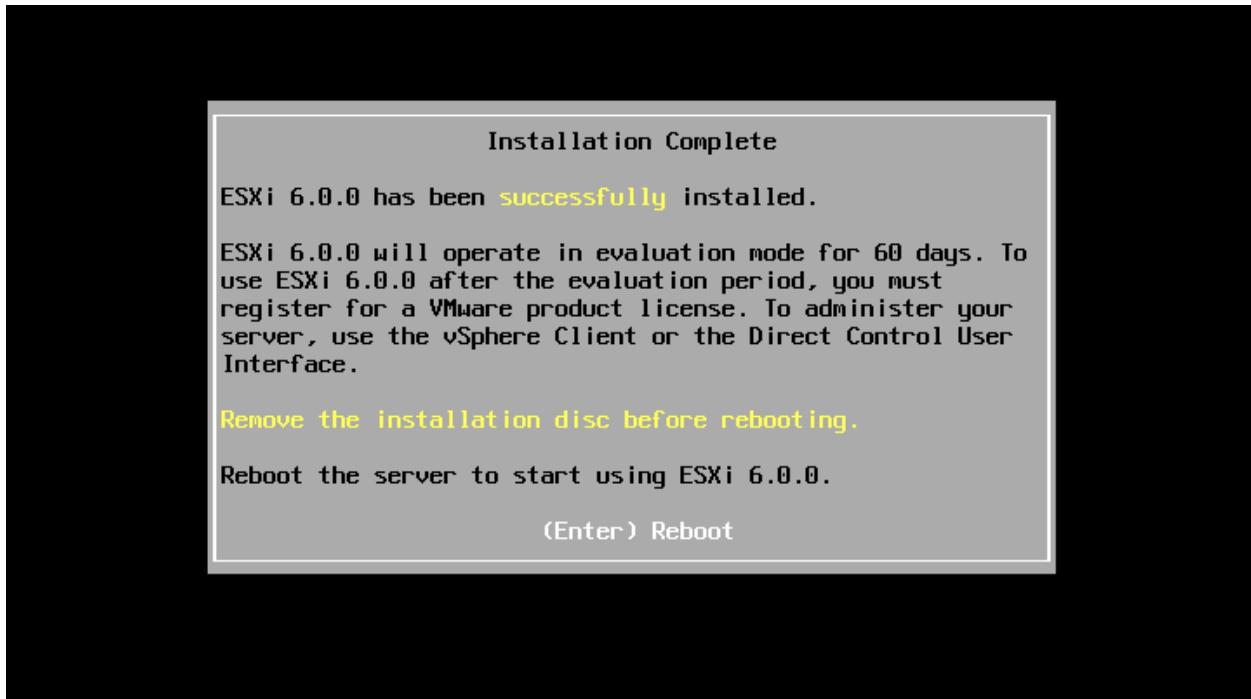
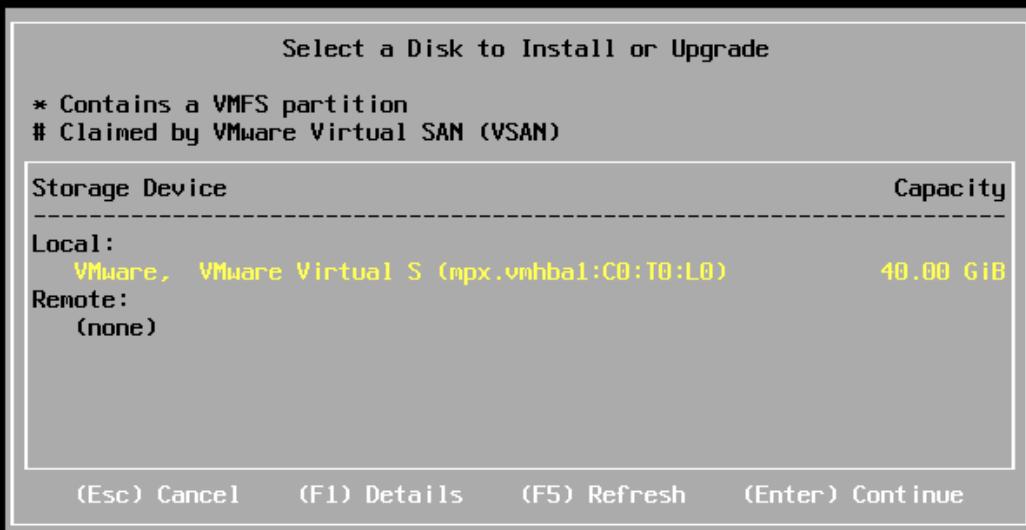
Chapter 3

```
mduffy — root@ubuntu: ~ — ssh — 80x24
root@ubuntu:~# aptly mirror create -architectures=amd64 trusty-main http://archive.ubuntu.com/ubuntu/ trusty main
Downloading http://archive.ubuntu.com/ubuntu/dists/trusty/InRelease...
Downloading http://archive.ubuntu.com/ubuntu/dists/trusty/Release...
Downloading http://archive.ubuntu.com/ubuntu/dists/trusty/Release.gpg...
gpgv: Signature made Thu 08 May 2014 15:20:33 BST using DSA key ID 437D05B5
gpgv: Good signature from "Ubuntu Archive Automatic Signing Key <ftpmaster@ubuntu.com>" 
gpgv: Signature made Thu 08 May 2014 15:20:33 BST using RSA key ID C0B21F32
gpgv: Good signature from "Ubuntu Archive Automatic Signing Key (2012) <ftpmaster@ubuntu.com>" 

Mirror [trusty-main]: http://archive.ubuntu.com/ubuntu/ trusty successfully added.
You can run 'aptly mirror update trusty-main' to download repository contents.
root@ubuntu:~# 
```

Chapter 4





VMware ESXi 6.0.0 (VMKernel Release Build 3029758)

VMware, Inc. VMware Virtual Platform

2 x Intel(R) Xeon(R) CPU E5-2697 v2 @ 2.70GHz
4 GiB Memory

Download tools to manage this host from:
<http://192.168.152.134/> (DHCP)
[http://\[fe80::20c:29ff:fe79:b751\]/](http://[fe80::20c:29ff:fe79:b751]/) (STATIC)

VMware ESXi Welcome

Getting Started

If you need to access this host remotely, use the following program to install vSphere Client software. After running the installer, start the client and log in to this host.

Please note that the traditional vSphere Client does not support features added to vSphere in the 5.1 and 5.5 releases. The traditional vSphere Client is intended for use if you need to connect directly to an ESXi host, are performing certain vSphere Update Manager operations, or are running vCenter Plug-ins that support only the vSphere Client such as vCenter Site Recovery Manager or vCenter Multi-Hypervisor Manager.

You can take advantage of the fullest range of functionality introduced or updated in this release by using the vSphere Web Client.

- [Download vSphere Client](#)

To streamline your IT operations with vSphere, use the following program to install vCenter. vCenter will help you consolidate and optimize workload distribution across ESX hosts, reduce new system deployment time from weeks to seconds, monitor your virtual

For Administrators

vSphere Remote Command Line

The Remote Command Line allows you to use command line tools to manage vSphere from a client machine. These tools can be used in shell scripts to automate day-to-day operations.

- [Download the Virtual Appliance](#)
- [Download the Windows Installer \(.exe\)](#)
- [Download the Linux Installer \(tar.gz\)](#)

Web-Based Datastore Browser

Use your web browser to find and download files (for example, virtual machine and virtual disk files).

- [Browse datastores in this host's inventory](#)

For Developers

vSphere Web Services SDK

Learn about our latest SDKs, Toolkits, and API documentation.



10.0.1.21 - vSphere Client

File Edit View Inventory Administration Plug-ins Help

Home Inventory Inventory

10.0.1.21
vm01 VMware ESXi, 5.5.0, 2068190

Summary Virtual Machines Resource Allocation Performance Configuration Local Users & Groups Events Permissions

General

Manufacturer:	HP
Model:	Proliant MicroServer Gen8
CPU Cores:	2 CPUs x 2,294 GHz
Processor Type:	Intel(R) Celeron(R) CPU G1510T @ 2,30GHz
License:	VMware vSphere 5 Hypervisor - Licensed for 1 physical CPU
Processor Sockets:	1
Cores per Socket:	2
Logical Processors:	2
Hyperthreading:	Inactive
Number of NICs:	2
State:	Connected
Virtual Machines and Templates:	3
vMotion Enabled:	N/A
VMware EVC Mode:	Disabled
vsphere HA State	② N/A
Host Configured for FT:	N/A
Active Tasks:	
Host Profile:	N/A
Image Profile:	HP-ESXi-5.5.0-Update2-iso...
Profile Compliance:	ⓘ N/A
DirectPath I/O:	Not supported ⓘ

Resources

CPU usage: 439 MHz	Capacity 2 x 2,294 GHz
Memory usage: 7455.00 MB	Capacity 16221.42 MB
Storage	Drive Type Capacity
datastore1	Non-SSD 3.63 TB
Tardis	Non-SSD 499.75 GB 49%

Fault Tolerance

Fault Tolerance Version:	5.0.0-5.0.0-5.0.0
Refresh Virtual Machine Counts	
Total Primary VMs:	0
Powered On Primary VMs:	0
Total Secondary VMs:	0
Powered On Secondary VMs:	0

Host Management

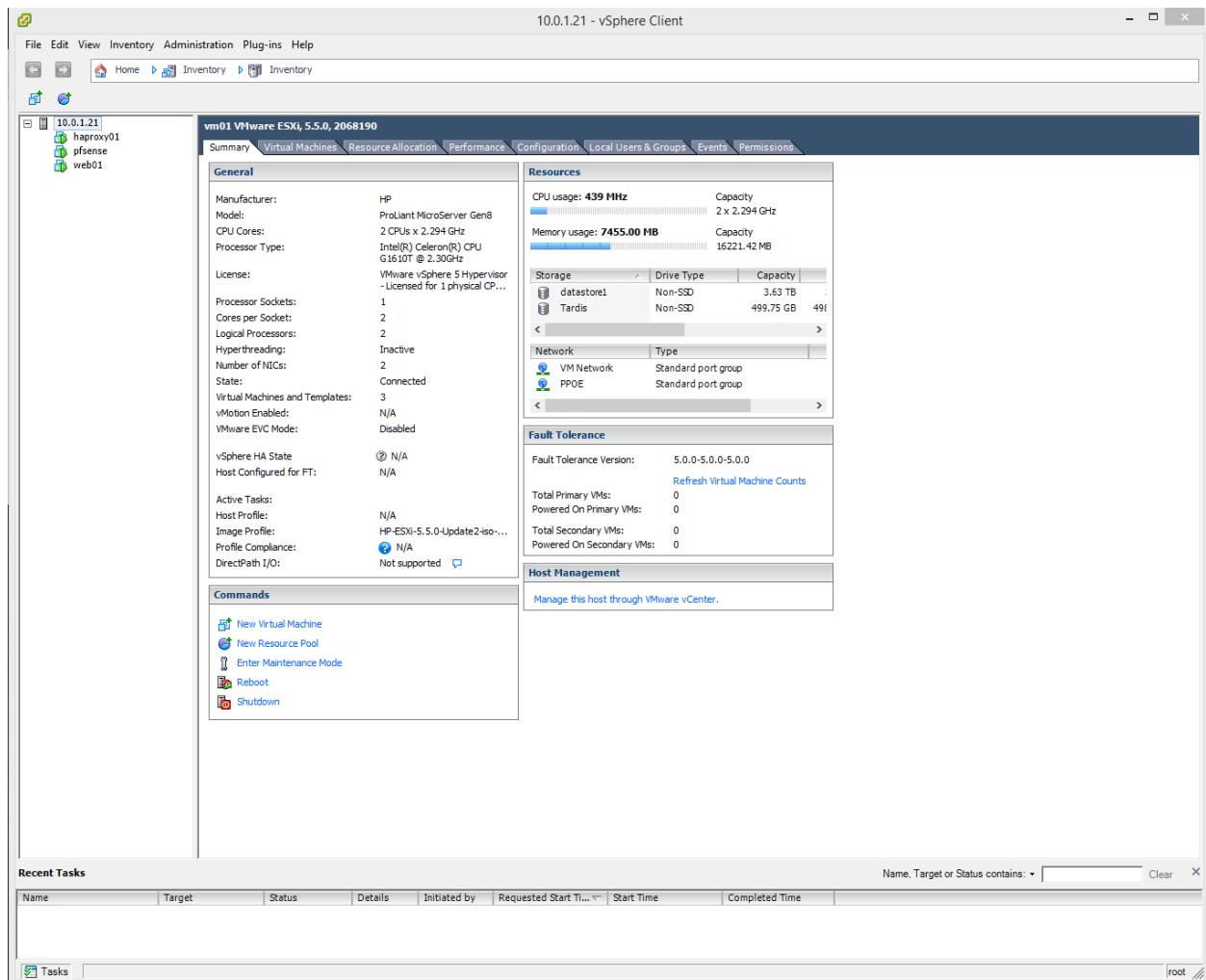
Manage this host through VMware vCenter.

Recent Tasks

Name	Target	Status	Details	Initiated by	Requested Start Time	Start Time	Completed Time

Name, Target or Status contains: ▾ Clear X

Tasks root //



System Customization**Configure Password**

Configure Lockdown Mode

Configure Management Network

Restart Management Network

Test Management Network

Network Restore Options

Configure Keyboard

Troubleshooting Options

View System Logs

View Support Information

Reset System Configuration

Configure Password**Set**

To prevent unauthorized access to this system, set the password for the user.

<Enter> Change

<Esc> Log Out

Troubleshooting Mode Options	ESXi Shell
Enable ESXi Shell Enable SSH Modify ESXi Shell and SSH timeouts Modify DCUI idle timeout Restart Management Agents	ESXi Shell is Disabled Change current state of the ESXi Shell

<Enter> Change

<Esc> Exit

VMware ESXi 6.0.0 (VMKernel Release Build 2494585)

```
mduffy - ssh - 80x24
Last login: Mon Mar 16 14:56:44 on ttys002
macbookpro:~ mduffy$ ssh root@192.168.17.136
Password:
The time and date of this login have been sent to the system logs.

VMware offers supported, powerful system administration tools. Please
see www.vmware.com/go/sysadmintools for details.

The ESXi Shell can be disabled by an administrative user. See the
vSphere Security documentation for more information.
[root@localhost:~] 
```

```
mduffy - ssh - 101x25
[root@localhost:~] vim-cmd vmsvc/getallvms
VmId      Name           File                               Guest OS     Version   Annotation
1         examplevm     [datastore1] examplevm_1/examplevm_1.vmx  ubuntu64Guest  vmx-10
2         examplevm     [datastore1] examplevm/examplevm.vmx    ubuntu64Guest  vmx-10
[root@localhost:~] 
```

```
[root@localhost:~] esxcli vm process list  
examplevm  
    World ID: 61897  
    Process ID: 0  
    VMX Cartel ID: 61896  
    UUID: 56 4d c9 26 42 dd d3 91-53 1d a7 b2 a2 a3 25 0c  
    Display Name: examplevm  
    Config File: /vmfs/volumes/5506ea1b-d924ec1b-595e-000c2954f195/examplevm/exam  
plevm.vmx  
[root@localhost:~] 
```

```
mduffy - ssh - 69x25

(vim.vm.SnapshotInfo) {
    currentSnapshot = 'vim.vm.Snapshot:2-snapshot-1',
    rootSnapshotList = (vim.vm.SnapshotTree) [
        (vim.vm.SnapshotTree) {
            snapshot = 'vim.vm.Snapshot:2-snapshot-1',
            vm = 'vim.VirtualMachine:2',
            name = "awesomework",
            description = "",
            id = 1,
            createTime = "2015-03-17T03:22:09.622103Z",
            state = "poweredOn",
            quiesced = false,
            backupManifest = <unset>,
            replaySupported = false,
        }
    ]
}
[root@localhost:~] 
```

Chapter 5

```
first_playbook - bash - 100x38
changed: [172.16.84.128] => (item={'key': 'admin', 'value': {'comment': 'Administrator User', 'state': 'present', 'shell': '/bin/bash', 'uid': 5110, 'gid': 5110, 'password': '$6$HIi7W8lR.Flg$DWIVv6B/OGgsiQUTMxfmaP4CkX6fu/t4DplUH3EZL1N5prbSau5soD15P70YPmDsH4Puon8vDnkblf00745iT', 'sshkey': 'ssh-rsa AAAAB3NzaC1yc2EAAAQABAAQDd/nW7kP+evZ0grc9RklZw6Usi0d/cTs9qLTitk2p3LIGbw4sjlcSLMxd57DPN+J9j+ksvpZf93lCe0pTW1Fe9H+TNVOjAqX3bXCMFpguEDZY7FjwEQzPdpYw//xxIpCJnQ2MIYtYVaede3zCUifz+cCJaHAuHSxZjhAX5vjVlsrEY5vHvaH+OcNyHzXBQFrOTDh475bFIZv6NMiPs9g3zVi728291BFluPqWGc0AmfzxMTs6m0AZYaxIPES0RNiy4GvVR0EUaY0TWJvMV+0I2ISGSrfvthWabL+6hPbqtK8vR70JAY12K21d3DdAWVlkVLUjx7eIfllTfhbuN6pWF'})}
changed: [172.16.84.128] => (item={'key': 'testuser', 'value': {'state': 'present', 'shell': '/bin/bash', 'uid': 510, 'gid': 510, 'password': '$6$HIi7W8lR.Flg$DWIVv6B/OGgsiQUTMxfmaP4CkX6fu/t4DplUH3EZL1N5prbSau5soD15P70YPmDsH4Puon8vDnkblf00745iT', 'comments': 'Example User', 'sshkey': 'ssh-rsa AAAAB3NzaC1yc2EAAAQABAAQDd/nW7kP+evZ0grc9RklZw6Usi0d/cTs9qLTitk2p3LIGbw4sjlcSLMxd57DPN+J9j+ksvpZf93lCe0pTW1Fe9H+TNVOjAqX3bXCMFpguEDZY7FjwEQzPdpYw//xxIpCJnQ2MIYtYVaede3zCUifz+cCJaHAuHSxZjhAX5vjVlsrEY5vHvaH+OcNyHzXBQFrOTDh475bFIZv6NMiPs9g3zVi728291BFluPqWGc0AmfzxMTs6m0AZYaxIPES0RNiy4GvVR0EUaY0TWJvMV+0I2ISGSrfvthWabL+6hPbqtK8vR70JAY12K21d3DdAWVlkVLUjx7eIfllTfhbuN6pWF'})}
TASK: [common | Add Keys] *****
changed: [172.16.84.128] => (item={'key': 'admin', 'value': {'comment': 'Administrator User', 'state': 'present', 'shell': '/bin/bash', 'uid': 5110, 'gid': 5110, 'password': '$6$HIi7W8lR.Flg$DWIVv6B/OGgsiQUTMxfmaP4CkX6fu/t4DplUH3EZL1N5prbSau5soD15P70YPmDsH4Puon8vDnkblf00745iT', 'sshkey': 'ssh-rsa AAAAB3NzaC1yc2EAAAQABAAQDd/nW7kP+evZ0grc9RklZw6Usi0d/cTs9qLTitk2p3LIGbw4sjlcSLMxd57DPN+J9j+ksvpZf93lCe0pTW1Fe9H+TNVOjAqX3bXCMFpguEDZY7FjwEQzPdpYw//xxIpCJnQ2MIYtYVaede3zCUifz+cCJaHAuHSxZjhAX5vjVlsrEY5vHvaH+OcNyHzXBQFrOTDh475bFIZv6NMiPs9g3zVi728291BFluPqWGc0AmfzxMTs6m0AZYaxIPES0RNiy4GvVR0EUaY0TWJvMV+0I2ISGSrfvthWabL+6hPbqtK8vR70JAY12K21d3DdAWVlkVLUjx7eIfllTfhbuN6pWF'})}
changed: [172.16.84.128] => (item={'key': 'testuser', 'value': {'state': 'present', 'shell': '/bin/bash', 'uid': 510, 'gid': 510, 'password': '$6$HIi7W8lR.Flg$DWIVv6B/OGgsiQUTMxfmaP4CkX6fu/t4DplUH3EZL1N5prbSau5soD15P70YPmDsH4Puon8vDnkblf00745iT', 'comments': 'Example User', 'sshkey': 'ssh-rsa AAAAB3NzaC1yc2EAAAQABAAQDd/nW7kP+evZ0grc9RklZw6Usi0d/cTs9qLTitk2p3LIGbw4sjlcSLMxd57DPN+J9j+ksvpZf93lCe0pTW1Fe9H+TNVOjAqX3bXCMFpguEDZY7FjwEQzPdpYw//xxIpCJnQ2MIYtYVaede3zCUifz+cCJaHAuHSxZjhAX5vjVlsrEY5vHvaH+OcNyHzXBQFrOTDh475bFIZv6NMiPs9g3zVi728291BFluPqWGc0AmfzxMTs6m0AZYaxIPES0RNiy4GvVR0EUaY0TWJvMV+0I2ISGSrfvthWabL+6hPbqtK8vR70JAY12K21d3DdAWVlkVLUjx7eIfllTfhbuN6pWF'})}
TASK: [common | Install Common packages] *****
changed: [172.16.84.128] => (item=sysstat,open-vm-tools)
PLAY RECAP *****
172.16.84.128 : ok=4    changed=3    unreachable=0    failed=0
MacBookPro:first_playbook mduffy$ 
```

```
first_playbook — bash — 72x24
': 'present', 'server_name': 'test2.test.com'})}

TASK: [nginx | Add Virtual Hosts] ****
*****
changed: [172.16.84.128] => (item={'key': 'test1', 'value': {'vhost_root': 'present', 'server_name': 'test.test.com'}})
changed: [172.16.84.128] => (item={'key': 'test2', 'value': {'vhost_root': 'present', 'server_name': 'test2.test.com'}})

TASK: [nginx | Add Virtual Host symlink] ****
*****
changed: [172.16.84.128] => (item={'key': 'test1', 'value': {'vhost_root': 'present', 'server_name': 'test.test.com'}})
changed: [172.16.84.128] => (item={'key': 'test2', 'value': {'vhost_root': 'present', 'server_name': 'test2.test.com'}})

NOTIFIED: [nginx | restart nginx] ****
*****
changed: [172.16.84.128]

PLAY RECAP ****
*****
172.16.84.128 : ok=13    changed=11    unreachable=0    failed=0
```

```
Alita:devops_cookbook mduffy$ serverspec-init
Select OS type:

1) UN*X
2) Windows

Select number: 1

Select a backend type:

1) SSH
2) Exec (local)

Select number: 1

Vagrant instance y/n: n
Input target host name: test.example.com
+ spec/
+ spec/test.example.com/
+ spec/test.example.com/sample_spec.rb
+ spec/spec_helper.rb
+ Rakefile
+ .rspec
[...]

Finished in 0.10308 seconds (files took 2.98 seconds to load)
5 examples, 5 failures

Failed examples:

  rspec ./spec/test.stunthamster.com/nginx_role_spec.rb:5 # Package "nginx" should be installed
  rspec ./spec/test.stunthamster.com/nginx_role_spec.rb:9 # Service "nginx" should be enabled
  rspec ./spec/test.stunthamster.com/nginx_role_spec.rb:13 # Port "80" should be listening
  rspec ./spec/test.stunthamster.com/nginx_role_spec.rb:20 # File "/etc/nginx/sites-enabled/test1.conf" should be linked to "/etc/nginx/sites-available/test1.conf"
  rspec ./spec/test.stunthamster.com/nginx_role_spec.rb:20 # File "/etc/nginx/sites-enabled/test2.conf" should be linked to "/etc/nginx/sites-available/test2.conf"
```

```
Package "nginx"
  should be installed

Service "nginx"
  should be enabled

Port "80"
  should be listening

File "/etc/nginx/sites-enabled/test1.conf"
  should be linked to "/etc/nginx/sites-available/test1.conf"

File "/etc/nginx/sites-enabled/test2.conf"
  should be linked to "/etc/nginx/sites-available/test2.conf"

Finished in 0.10165 seconds (files took 5.71 seconds to load)
5 examples, 0 failures
```

Chapter 6

```
● ● ●   🏠 mduffy — mduffy@Alita: ~ — ~ — zsh — 48x16
➔ ~ docker -v
Docker version 1.6.0, build 4749651
➔ ~ └─
```

```
● ● ●   🏠 mduffy — mduffy@Alita: ~ — ~ — zsh — 82x22
➔ ~ docker ps
CONTAINER ID        IMAGE               COMMAND                  CREATED
STATUS              PORTS              NAMES
296c18cc81ca        mysql:latest      "/entrypoint.sh mysq    10 days ago
Up 2 seconds          3306/tcp           test-mysql
```

The screenshot shows a web browser window with the URL `10.0.1.117/wp-admin/install.php` in the address bar. The page features the classic blue WordPress logo at the top. Below it, a large "Welcome" heading is displayed, followed by a descriptive paragraph about the installation process. A section titled "Information needed" contains fields for "Site Title", "Username", and "Password, twice". The "Username" field includes a note about allowed characters and a strength indicator bar. A hint for the password is also provided.

Welcome

Welcome to the famous five-minute WordPress installation process! Just fill in the information below and you'll be on your way to using the most extendable and powerful personal publishing platform in the world.

Information needed

Please provide the following information. Don't worry, you can always change these settings later.

Site Title

Username
Usernames can have only alphanumeric characters, spaces, underscores, hyphens, periods, and the @ symbol.

Password, twice
A password will be automatically generated for you if you leave this blank.
Strength indicator

Hint: The password should be at least seven characters long. To make it stronger, use upper and lower case letters, numbers, and symbols like !"#\$%^&).

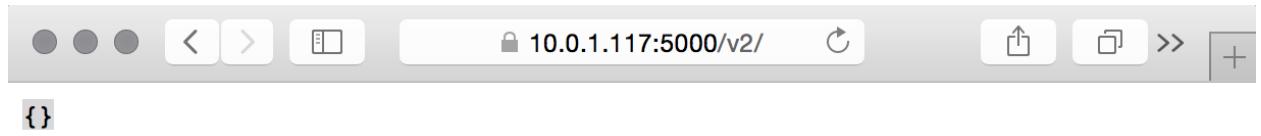
The screenshot shows a terminal window with the command `docker images` run. The output lists three Docker images: "wordpress" and "mysql" both with the "latest" tag, and another unnamed image. The table includes columns for Repository, Tag, Image ID, Created time, and Virtual Size.

REPOSITORY	TAG	IMAGE ID	CREATED	VIRTUAL SIZE
wordpress	latest	7dc926dab9fb	2 weeks ago	460.3 MB
mysql	latest	56f320bd6adc	3 weeks ago	282.9 MB

```
gollum - docker build --no-cache -t stunthamster/gollum:4.0.0 .
Sending build context to Docker daemon 43.52 kB
Sending build context to Docker daemon
Step 0 : FROM ubuntu:14.04
14.04: Pulling from ubuntu
e9e06b06e14c: Pull complete
a82efea989f9: Pull complete
37bea4eee0c81: Pull complete
07f8e8c5e660: Already exists
ubuntu:14.04: The image you are pulling has been verified. Important: image verification is a te
ch preview feature and should not be relied on to provide security.
Digest: sha256:125f9479befef1f71562b6ff20fb301523a2633902ded6d50ade4ebcd7637a035
Status: Downloaded newer image for ubuntu:14.04
--> 07f8e8c5e660
Step 1 : MAINTAINER Michael Duffy <michael@stunthamster.com>
--> Running in 0126728037c6
--> 336fb4837b48
Removing intermediate container 0126728037c6
Step 2 : RUN apt-get update
--> Running in a8d91d6643a3
Ign http://archive.ubuntu.com trusty InRelease
Ign http://archive.ubuntu.com trusty-updates InRelease
Ign http://archive.ubuntu.com trusty-security InRelease
Hit http://archive.ubuntu.com trusty Release.gpg
Get:1 http://archive.ubuntu.com trusty-updates Release.gpg [933 B]
Get:2 http://archive.ubuntu.com trusty-security Release.gpg [933 B]
Hit http://archive.ubuntu.com trusty Release
Get:3 http://archive.ubuntu.com trusty-updates Release [63.5 kB]
Get:4 http://archive.ubuntu.com trusty-security Release [63.5 kB]
Get:5 http://archive.ubuntu.com trusty/main Sources [1335 kB]
Get:6 http://archive.ubuntu.com trusty/restricted Sources [5335 B]
Get:7 http://archive.ubuntu.com trusty/universe Sources [7926 kB]
Get:8 http://archive.ubuntu.com trusty/main amd64 Packages [1743 kB]
```

The screenshot shows a web-based page editor interface. At the top, there's a toolbar with standard browser controls (back, forward, search, etc.) and a URL bar showing "10.0.1.117:4567/create/Home". Below the toolbar is a header "Create New Page". A sub-header "Home" is visible in a dropdown menu. A note "NOTE: This page will be created within the "/" directory" is displayed. The main area is a large text editor with a toolbar above it containing buttons for bold, italic, lists, and other rich text options. To the right of the toolbar is an "Edit Mode" dropdown set to "Markdown". Below the editor is a preview area with the placeholder text "Created Home (markdown)". At the bottom of the editor are "Save" and "Preview" buttons.

```
distribution-2.0.0 — openssl req -newkey rsa:2048 -nodes -keyout certs/registry.key -x509 -days 730 -out certs/registry.crt
→ distribution-2.0.0 openssl req -newkey rsa:2048 -nodes -keyout certs/registry.key -x509 -days 730 -out certs/registry.crt
Generating a 2048 bit RSA private key
.....+
.....+
writing new private key to 'certs/registry.key'
-----
You are about to be asked to enter information that will be incorporated
into your certificate request.
What you are about to enter is what is called a Distinguished Name or a DN.
There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter '.', the field will be left blank.
-----
Country Name (2 letter code) [AU]:
```



```
distribution-2.0.0 - mduffy@alita: ~/Downloads/distribution-2.0.0 - ..ibution-2.0.0 - zsh - 83x26
➔ distribution-2.0.0 docker push registry.stunthamster.com:5000/gollum:4.0.0
The push refers to a repository [registry.stunthamster.com:5000/gollum] (len: 1)
bfffb8c4a03ea: Image already exists
99d63ab110f9: Image successfully pushed
7b9ee66207cb: Image successfully pushed
2e971bf03a20: Image successfully pushed
57a21dbeb512: Image successfully pushed
393b01244176: Image successfully pushed
71dae6be4417: Image successfully pushed
bd1leaf07f014: Image successfully pushed
ca0f230b927e: Image successfully pushed
f1bec3d7a3c2: Image successfully pushed
4a386c8c854d: Image successfully pushed
2c006467b059: Image successfully pushed
cf87a463dca8: Image successfully pushed
33e1becc4d89: Image successfully pushed
86c1ba2f46fd: Image successfully pushed
f3d5a2ae5530: Image successfully pushed
e3dfcb7c6e5a: Image successfully pushed
c032a945ed19: Image successfully pushed
05bacbdfa6eb: Image successfully pushed
e66a33f451f4: Image successfully pushed
41b730702607: Image successfully pushed
3cb35ae859e7: Image successfully pushed
Digest: sha256:433e2671bc64abc9561f916b166e37076fa851a8eb42670ad7f29591f6e21222
➔ distribution-2.0.0
```

```
distribution-2.0.0 — mduffy@alita: ~/Downloads/distribution-2.0.0 — libunton-2.0.0 — zsh — 103x30
➔ distribution-2.0.0 curl -v -X GET http://registry.stunthamster.com:5000/v2/gollum/tags/list
* Hostname was NOT found in DNS cache
*   Trying 172.16.84.135...
* Connected to registry.stunthamster.com (172.16.84.135) port 5000 (#0)
> GET /v2/gollum/tags/list HTTP/1.1
> User-Agent: curl/7.37.1
> Host: registry.stunthamster.com:5000
> Accept: */*
>
< HTTP/1.1 200 OK
< Content-Type: application/json; charset=utf-8
< Docker-Distribution-Api-Version: registry/2.0
< Date: Fri, 15 May 2015 04:54:59 GMT
< Content-Length: 35
<
>{"name":"gollum","tags":["4.0.0"]}
* Connection #0 to host registry.stunthamster.com left intact
➔ distribution-2.0.0 ┌─
```

Chapter 7

The screenshot shows the Jenkins dashboard. At the top, there's a dark header with the Jenkins logo and the word "Jenkins". Below it is a light-colored navigation bar with the word "Jenkins" and a right-pointing arrow. On the left side, there's a sidebar with icons and labels: "New Item" (a briefcase icon), "People" (a user icon), "Build History" (a chart icon), "Manage Jenkins" (a wrench icon), and "Credentials" (a key icon). The main area has a large "Welcome to Jenkins!" message in bold black font, followed by a light blue box containing the text "Please [create new jobs](#) to get started.". Below this, there are two sections: "Build Queue" which says "No builds in the queue.", and "Build Executor Status" which lists "1 Idle" and "2 Idle".



Manage Jenkins

Manage Jenkins

Unsecured Jenkins allows anyone on the network to launch processes on your behalf.
Consider at least enabling authentication to discourage misuse.

[Setup Security](#)

[Dismiss](#)

search 

Configure Global Security

 Enable security 

Markup Formatter Escaped HTML 

Treats all input as plain text. HTML unsafe characters like < and & are escaped to their respective character entities.

Prevent Cross Site Request Forgery exploits 
 Use browser for metadata download 

Save **Apply**

Page generated: May 31, 2015 6:38:45 PM [REST API](#) [Jenkins ver. 1.615](#)



Configure Global Security

Enable security ?

TCP port for JNLP slave agents Fixed : Random Disable ?

Disable remember me ?

Access Control

Security Realm

Delegate to servlet container ?

Jenkins' own user database ?

Allow users to sign up ?

LDAP ?

Unix user/group database ?

Authorization

Anyone can do anything ?

Legacy mode ?

Logged-in users can do anything ?

Matrix-based security ?

Project-based Matrix Authorization Strategy ?

Markup Formatter

Escaped HTML ▼

Treats all input as plain text. HTML unsafe characters like < and & are escaped to their respective character entities.

Prevent Cross Site Request Forgery exploits ?

Use browser for metadata download ?

Save

Apply



Manage Users

Create/delete/modify users that can log in to this Jenkins

Sign up

Username:

Password:

Confirm password:

Full name:

E-mail address:

Sign up

Filter:

Updates Available Installed Advanced

Install ↓	Name	Version
<input type="checkbox"/> Git Plugin	This plugin allows use of Git as a build SCM. A recent Git runtime is required (1.7.9 minimum, 1.8.x recommended). Plugin is only tested on official git client . Use exotic installations at your own risks.	2.3.5
<input type="checkbox"/> Git Chooser Alternative Plugin	An alternative build chooser plugin for the Jenkins git plugin.	1.1
<input type="checkbox"/> Git Parameter Plugin	This plugin allows you to choose between Git tags or sha1 of your SCM repository so Git Plugin installed is required.	0.4.0
<input type="checkbox"/> Team Concert Git Plugin	Integrates Jenkins with Rational Team Concert for Jenkins Builds which use Git as source control. This plugin will create traceability links from a Jenkins build to Rational Team Concert Work Items and build results. This plugin adds traceability links from a Jenkins build to an RTC build result. It also publishes links to work items and annotates the change log generated by Jenkins with links to RTC Work Items; it leverages the current RTC features and workflows that users are already familiar with such as, emails, toaster popups, reporting, dashboards, etc.	1.0.9
<input type="checkbox"/> Tracking Git Plugin	Lets one project track the Git revisions that are built for another project.	1.0

Install without restart **Download now and install after restart** **Check now**

Update information obtained: 30 min ago

```
mduffy - root@jenkins: ~ - ssh - 80x24
jenkins@jenkins:/root$ ssh-keygen -t rsa -b 4096 -C "jenkins@example.com"
Generating public/private rsa key pair.
Enter file in which to save the key (/var/lib/jenkins/.ssh/id_rsa):
Created directory '/var/lib/jenkins/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /var/lib/jenkins/.ssh/id_rsa.
Your public key has been saved in /var/lib/jenkins/.ssh/id_rsa.pub.
The key fingerprint is:
74:fc:26:67:bf:0c:46:d9:96:3f:54:1f:bc:d9:db:38 jenkins@example.com
The key's randomart image is:
+--[ RSA 4096]----+
| |
| . .
| . o o.|
| . . . o .B|
| S . B ++o|
| * o.oo|
| o Eoo|
| . o o.|
| o |
+-----+
jenkins@jenkins:/root$
```

Credentials

Domain	Description
 Global credentials (unrestricted)	Credentials that should be available irrespective of domain specification to requirements matching.

Icon: [S](#) [M](#) [L](#)

 Jenkins

Jenkins > Credentials > Global credentials (unrestricted)

[Back to credential domains](#)

[Add Credentials](#)

Kind: SSH Username with private key

Scope: Global (Jenkins, nodes, items, all child items, etc)

Username: git

Private Key: From the Jenkins master ~/.ssh

Passphrase: [empty field]

Description: [empty field]

[Advanced...](#)

[OK](#)

 Help us localize this page

Page generated: Jun 5, 2015 10:40:57 AM REST API Jenkins ver. 1.616

 Jenkins

Jenkins >

[!\[\]\(3aa883258a9fdc29c652ea3fde92670b_img.jpg\) New Item](#)

[!\[\]\(a463f3156682b492600831d2b4ea56a4_img.jpg\) People](#)

[!\[\]\(dbd83b7fd54192016e04ca033a949014_img.jpg\) Build History](#)

[!\[\]\(7f5762c0a88c3d052b956fe887a23d74_img.jpg\) Manage Jenkins](#)

[!\[\]\(e4d84fc952363c3c33152812eef822ea_img.jpg\) Credentials](#)

[!\[\]\(7b4a365d8d36492d42a44ef585093a49_img.jpg\) My Views](#)

Welcome to Jenkins!

Please [create new jobs](#) to get started.

Screenshot of the Jenkins configuration page for the 'test_project' job.

Project Information:

- Project name: test_project
- Description: This job fetches and builds a Blog based on the Hugo CMS.
- [Escaped HTML] Preview link

Build Strategy:

- Discard Old Builds checkbox (checked)
- Strategy: Log Rotation
- Days to keep builds: (empty input field)
- Max # of builds to keep: 5
- If not empty, build records are only kept up to this number of days
- If not empty, only up to this number of build records are kept

GitHub Project:

- GitHub project: (empty input field)

Advanced Options:

- This build is parameterized (checkbox)
- Disable Build (No new builds will be executed until the project is re-enabled.) (checkbox)
- Execute concurrent builds if necessary (checkbox)

Advanced Project Options:

- Advanced... button

Buttons:

- Save button (dark blue)
- Apply button (light gray)

Build

Execute shell

Command `hugo`

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

[Delete](#)

[Add build step](#) ▾

Post-build Actions

Archive the artifacts

Files to archive `public/**`

[Advanced...](#)

[Delete](#)

[Add post-build action](#) ▾

[Save](#)

[Apply](#)



Build History

[trend](#) ▾

- | | | |
|--|----------------------------|---------------------|
| | #13 | Jun 4, 2015 5:34 PM |
| | #12 | Jun 4, 2015 5:34 PM |
| | #11 | Jun 4, 2015 5:06 PM |
| | #10 | Jun 4, 2015 5:06 PM |
| | #9 | Jun 4, 2015 5:05 PM |
| | #8 | Jun 4, 2015 5:02 PM |

[RSS for all](#) [RSS for failures](#)

 **Execute shell** 

Command `hugo -s files/hugo/`

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

Delete

 **Execute shell** 

Command `docker build -t stunthamster/blog:latest .`

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

Delete

 **Execute shell** 

Command `docker push stunthamster/blog:latest`

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

Delete



Console Output

```
Started by user Admin User
Building in workspace /var/lib/jenkins/jobs/test_project/workspace
> git rev-parse --is-inside-work-tree # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url git@github.com:stunthamster/stunthamster_blog.git # timeout=10
Cleaning workspace
> git rev-parse --verify HEAD # timeout=10
Resetting working tree
> git reset --hard # timeout=10
> git clean -fdx # timeout=10
Fetching upstream changes from git@github.com:stunthamster/stunthamster_blog.git
> git --version # timeout=10
using GIT_SSH to set credentials
```

```

da7142e65a7c: Buffering to Disk
da7142e65a7c: Image successfully pushed
407d8dcfcfaf: Buffering to Disk
407d8dcfcfaf: Image successfully pushed
d1078fde300d: Buffering to Disk
d1078fde300d: Image successfully pushed
9dab3f34d9be: Buffering to Disk
9dab3f34d9be: Image successfully pushed
cd033ab9d10d: Buffering to Disk
cd033ab9d10d: Image successfully pushed
fa81ed084842: Buffering to Disk
fa81ed084842: Image successfully pushed
e04c66a223c4: Buffering to Disk
e04c66a223c4: Image successfully pushed
7e2c5c55ef2c: Buffering to Disk
7e2c5c55ef2c: Image successfully pushed
e118faab2e16: Buffering to Disk
e118faab2e16: Image successfully pushed
Digest: sha256:2ce464bb252802ebd063ee0ee27fbce6e364f3a8876afef6f4867dc949cd6a20
Finished: SUCCESS

```

Project name	<input type="text" value="tomcat_test"/>
Description	<input type="text" value="Test of Tomcat parallel builds"/>
[Escaped HTML] Preview	
<input checked="" type="checkbox"/> Discard Old Builds ?	
Strategy	<input type="button" value="Log Rotation"/> ▼
Days to keep builds	<input type="text"/>
if not empty, build records are only kept up to this number of days	
Max # of builds to keep	<input type="text" value="10"/>
if not empty, only up to this number of build records are kept	
Days to keep artifacts	<input type="text"/>
if not empty, artifacts from builds older than this number of days will be deleted, but the logs, history, reports, etc for the build will be kept	
Max # of builds to keep with artifacts	<input type="text"/>
if not empty, only up to this number of builds have their artifacts retained	
<input type="checkbox"/> This build is parameterized ?	
<input type="checkbox"/> Disable Build (No new builds will be executed until the project is re-enabled.) ?	
<input type="checkbox"/> Execute concurrent builds if necessary ?	

Source Code Management

- None
- CVS
- CVS Projectset
- Git

Repositories

Repository URL

git@github.com:stunthamster/tomcat_deploy_test.git

Credentials

git

Add

Advanced...

Add Repository

Delete Repository

Branches to build

Branch Specifier (blank for 'any')

*/master

Add Branch

Delete Branch

Repository browser

(Auto)

Additional Behaviours

 Clean before checkout

Delete

Add

Build Triggers

- Trigger builds remotely (e.g., from scripts)
- Build after other projects are built
- Build periodically
- Poll SCM

Schedule

 Do you really mean "every minute" when you say "*****"? Perhaps you meant "H *****" to poll once per hour

Ignore post-commit hooks

Execute shell



Command

```
mv chapter7/testapp/* . && jar cf testapp.war WEB-INF/ index.jsp
```

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

[Delete](#)

Execute shell



Command

```
echo "buildnum: $BUILD_NUMBER" > chapter7/appdeploy/group_vars/appdeploy/main.yml
```

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

[Delete](#)

Execute shell



Command

```
ansible-playbook -i chapter7/appdeploy/inventory/appinventory chapter7/appdeploy/appdeploy.yml
```

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

[Delete](#)



Console Output

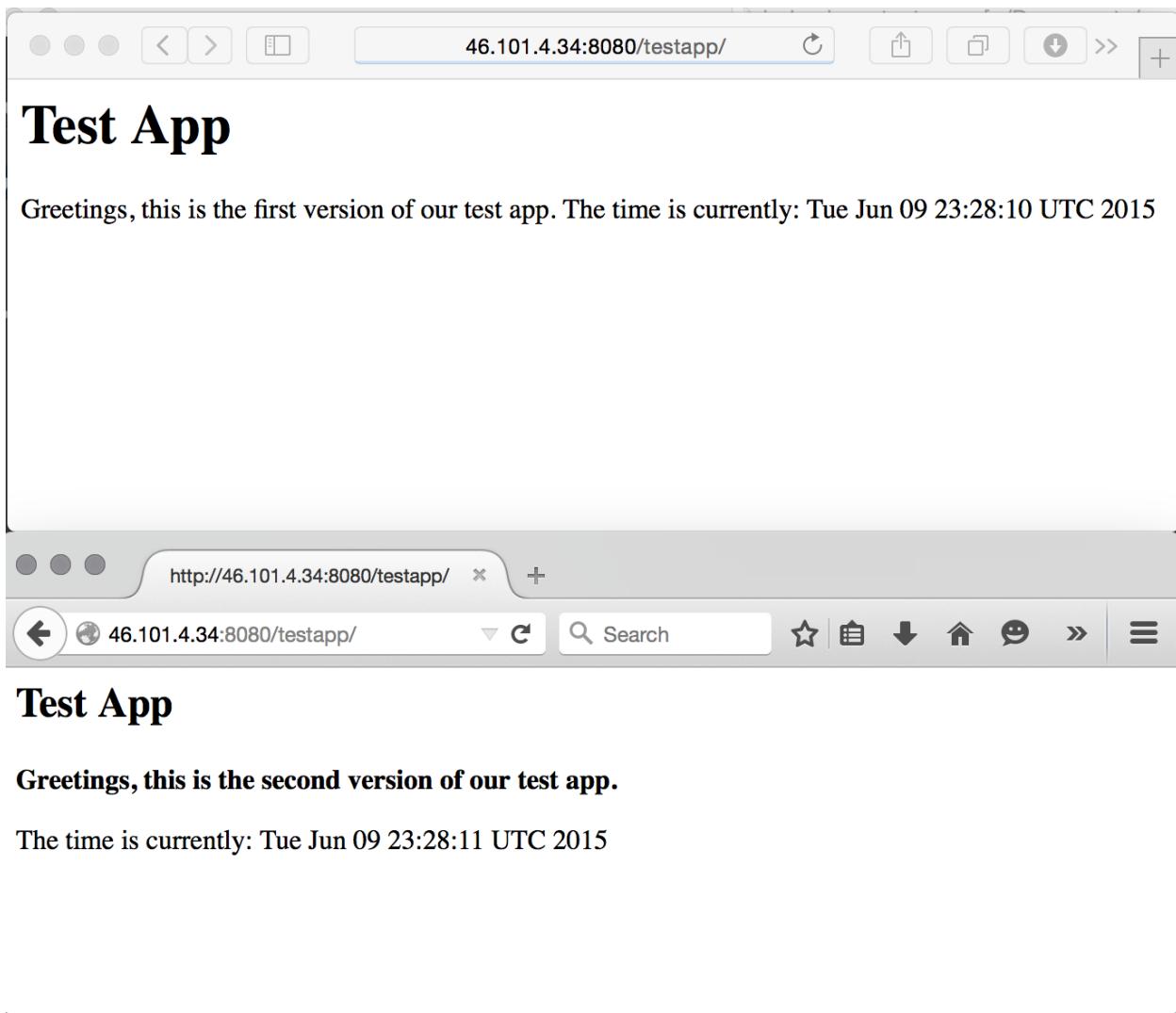
```
Started by user Admin User
Building in workspace /var/lib/jenkins/jobs/tomcat_test/workspace
> git rev-parse --is-inside-work-tree # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url git@github.com:stunthamster/devopscoobookcode.git # timeout=10
Cleaning workspace
> git rev-parse --verify HEAD # timeout=10
Resetting working tree
> git reset --hard # timeout=10
> git clean -fdx # timeout=10
Fetching upstream changes from git@github.com:stunthamster/devopscoobookcode.git
> git --version # timeout=10
using GIT_SSH to set credentials
> git -c core.askpass=true fetch --tags --progress git@github.com:stunthamster/devopscoobookcode.git
+refs/heads/*:refs/remotes/origin/*
> git rev-parse refs/remotes/origin/master^{commit} # timeout=10
> git rev-parse refs/remotes/origin/origin/master^{commit} # timeout=10
Checking out Revision 685fe50706917391fbb7e3add6536dfee8aa6b47 (refs/remotes/origin/master)
> git config core.sparsecheckout # timeout=10
> git checkout -f 685fe50706917391fbb7e3add6536dfee8aa6b47
> git rev-list 685fe50706917391fbb7e3add6536dfee8aa6b47 # timeout=10
[workspace] $ /bin/sh -xe /tmp/hudson29384041333671404.sh
+ mv chapter7/testapp/WEB-INF chapter7/testapp/index.jsp .
+ jar cf testapp.war WEB-INF/ index.jsp
[workspace] $ /bin/sh -xe /tmp/hudson82270327239407682.sh
+ echo buildnum: 36
[workspace] $ /bin/sh -xe /tmp/hudson5436740567623696210.sh
+ ansible-playbook -i chapter7/appdeploy/inventory appinventory chapter7/appdeploy/appdeploy.yml

PLAY [appdeploy] ****
TASK: [Deploy App] ****
changed: [46.101.4.34]

PLAY RECAP ****
46.101.4.34 : ok=1    changed=1    unreachable=0    failed=0

Archiving artifacts
Finished: SUCCESS
```

The screenshot shows a web browser window with the URL `46.101.4.34:8080/testapp/` in the address bar. The page title is "Test App". The content of the page is a single line of text: "Greetings, this is the first version of our test app. The time is currently: Tue Jun 09 23:16:37 UTC 2015".



Username with password

Scope	Global (Jenkins, nodes, items, all child items, etc)	Advanced...
Username	jenkins	?
Password	?
Description	Jenkins Slave	?

S	Name ↓	Architecture	Clock Difference	Free Disk Space	Free Swap Space	Free Temp Space	Response Time
	master	Linux (amd64)	In sync	51.87 GB	0 B	51.87 GB	0ms 
Data obtained	17 sec	17 sec	17 sec	17 sec	17 sec	17 sec	17 sec

[Refresh status](#)

Node name

Dumb Slave

Adds a plain, dumb slave to Jenkins. This is called "dumb" because Jenkins doesn't provide higher level of integration with these slaves, such as dynamic provisioning. Select this type if no other slave types apply — for example such as when you are adding a physical computer, virtual machines managed outside Jenkins, etc.

[OK](#)

Name	<input type="text" value="slave1"/> ?
Description	<input type="text" value="First Of many nodes"/> ?
# of executors	<input type="text" value="1"/> ?
Remote root directory	<input type="text" value="/home/jenkins"/> ?
Labels	<input type="text" value="test docker"/> ?
Usage	<input type="text" value="Utilize this node as much as possible"/> ?
Launch method	<input type="text" value="Launch slave agents on Unix machines via SSH"/> ?
Host	<input type="text" value="slave.example.com"/>
Credentials	<input type="text" value="jenkins***** (Jenkins Slave)"/> ? Add ?
Advanced...	
Availability	<input type="text" value="Keep this slave on-line as much as possible"/> ?

S	Name ↓	Architecture	Clock Difference	Free Disk Space	Free Swap Space	Free Temp Space	Response Time
	slave1	Linux (amd64)	In sync	25.86 GB	0 B	25.86 GB	2535ms 
	master	Linux (amd64)	In sync	51.87 GB	0 B	51.87 GB	0ms 
Data obtained	3 min 11 sec	3 min 11 sec	3 min 11 sec	3 min 11 sec	3 min 11 sec	3 min 11 sec	3 min 11 sec

[Refresh status](#)

Execute shell

Command `docker rm $(docker ps -a -q) && docker rmi $(docker images -q)`

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

Delete

Source Code Management

None
 CVS
 CVS Projectset
 Git

Repositories

Repository URL `git@github.com:stunthamster/stunthamster_blog.git`

Credentials `git`

Advanced...

Add Repository **Delete Repository**

Branches to build

Branch Specifier (blank for 'any') `*/master`

Add Branch **Delete Branch**

Repository browser `(Auto)`

Additional Behaviours

Subversion

Build Triggers

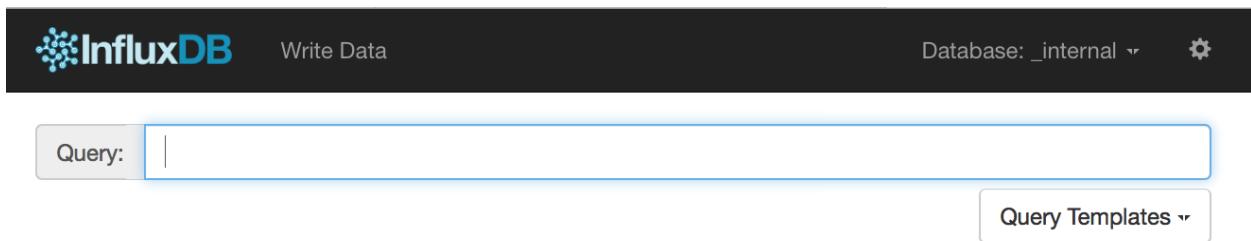
Trigger builds remotely (e.g., from scripts)
 Build after other projects are built
 Build periodically
 Build when a change is pushed to GitHub
 Poll SCM

Schedule

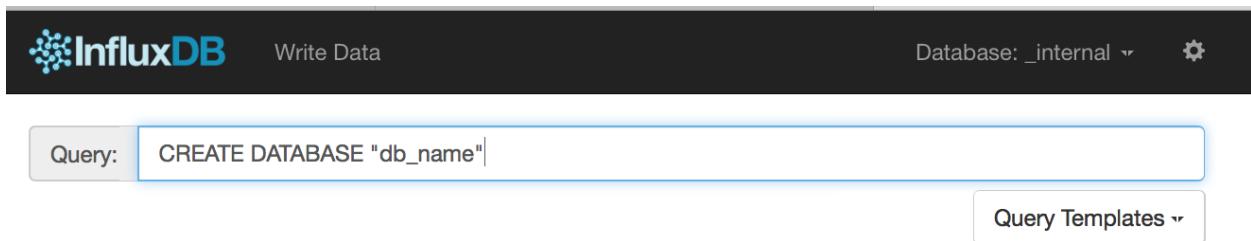
```
H * * * *
```

Would last have run at Thursday, June 4, 2015 5:00:19 PM EDT; would next run at Thursday, June 4, 2015 6:00:19 PM EDT.

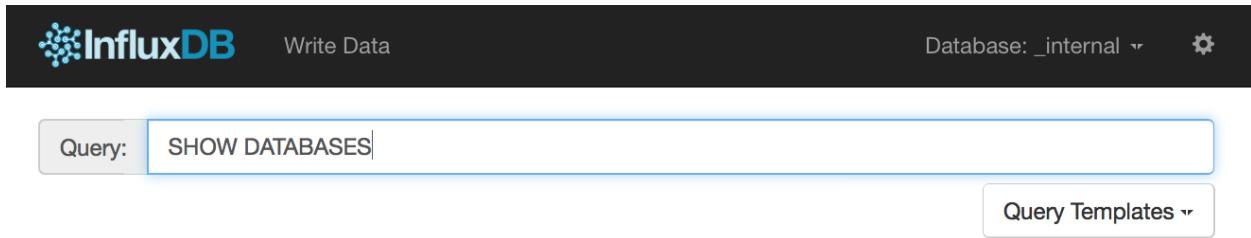
Chapter 8



The screenshot shows the InfluxDB interface with the "Write Data" tab selected. At the top, there's a navigation bar with the InfluxDB logo, a "Write Data" button, and a "Database: _internal" dropdown. Below the navigation is a search bar labeled "Query:" containing a placeholder "Query:" and a "Query Templates" dropdown.



The screenshot shows the InfluxDB interface with the "Write Data" tab selected. At the top, there's a navigation bar with the InfluxDB logo, a "Write Data" button, and a "Database: _internal" dropdown. Below the navigation is a search bar labeled "Query:" containing the command "CREATE DATABASE \"db_name\"". A "Query Templates" dropdown is also present.



The screenshot shows the InfluxDB interface with the "Write Data" tab selected. At the top, there's a navigation bar with the InfluxDB logo, a "Write Data" button, and a "Database: _internal" dropdown. Below the navigation is a search bar labeled "Query:" containing the command "SHOW DATABASES". A "Query Templates" dropdown is also present.

databases

name

_internal

test1

The screenshot shows the InfluxDB web interface. At the top, there is a dark header bar with the InfluxDB logo, the text "Write Data", and a dropdown menu "Database: telegraf" followed by a gear icon. Below the header is a search bar labeled "Query:" containing the placeholder text "Query:". To the right of the search bar is a button labeled "Query Templates ▾".

The screenshot shows the InfluxDB web interface after executing the query "SHOW MEASUREMENTS". The results are displayed below the search bar. The title "measurements" is shown in large bold letters. A table lists various measurement names:

name
cpu_busy
cpu_guest
cpu_guestNice
cpu_idle
cpu_iowait
cpu_irq

The screenshot shows the InfluxDB web interface after executing the query "SELECT * FROM cpu_busy WHERE cpu = 'cpu0'". The results are displayed below the search bar. The title "cpu_busy" is shown in large bold letters. A table lists the data points:

time	cpu	host	value
2015-09-16T21:25:54Z	"cpu0"	"influxdb1"	486.2
2015-09-16T21:26:04Z	"cpu0"	"influxdb1"	486.39000000000004
2015-09-16T21:26:14Z	"cpu0"	"influxdb1"	486.45
2015-09-16T21:26:24Z	"cpu0"	"influxdb1"	486.50999999999993
2015-09-16T21:26:34Z	"cpu0"	"influxdb1"	486.65999999999997
2015-09-16T21:26:44Z	"cpu0"	"influxdb1"	486.72999999999996
2015-09-16T21:26:54Z	"cpu0"	"influxdb1"	486.83000000000004

cpu_busy

time	cpu	host	value
2015-09-16T21:25:54Z	"cpu0"	"influxdb1"	486.2
2015-09-16T21:26:04Z	"cpu0"	"influxdb1"	486.39000000000004
2015-09-16T21:26:14Z	"cpu0"	"influxdb1"	486.45
2015-09-16T21:26:24Z	"cpu0"	"influxdb1"	486.50999999999993
2015-09-16T21:26:34Z	"cpu0"	"influxdb1"	486.65999999999997
2015-09-16T21:26:44Z	"cpu0"	"influxdb1"	486.72999999999996
2015-09-16T21:26:54Z	"cpu0"	"influxdb1"	486.83000000000004

Query: SELECT * FROM cpu_busy WHERE cpu = 'cpu0' AND value > 500

Query Templates ▾

cpu_busy

time	cpu	host	value
2015-09-16T21:42:34Z	"cpu0"	"influxdb1"	500.0999999999997
2015-09-16T21:42:44Z	"cpu0"	"influxdb1"	500.34
2015-09-16T21:42:54Z	"cpu0"	"influxdb1"	500.519999999999
2015-09-16T21:43:04Z	"cpu0"	"influxdb1"	500.6899999999994
2015-09-16T21:43:14Z	"cpu0"	"influxdb1"	500.9099999999997
2015-09-16T21:43:24Z	"cpu0"	"influxdb1"	501.0399999999996
2015-09-16T21:43:34Z	"cpu0"	"influxdb1"	501.28

Query: SELECT * FROM cpu_busy WHERE cpu = 'cpu0' AND value > 100 AND time > now() - 10s GROUP BY host

Query Templates ▾

cpu_busy

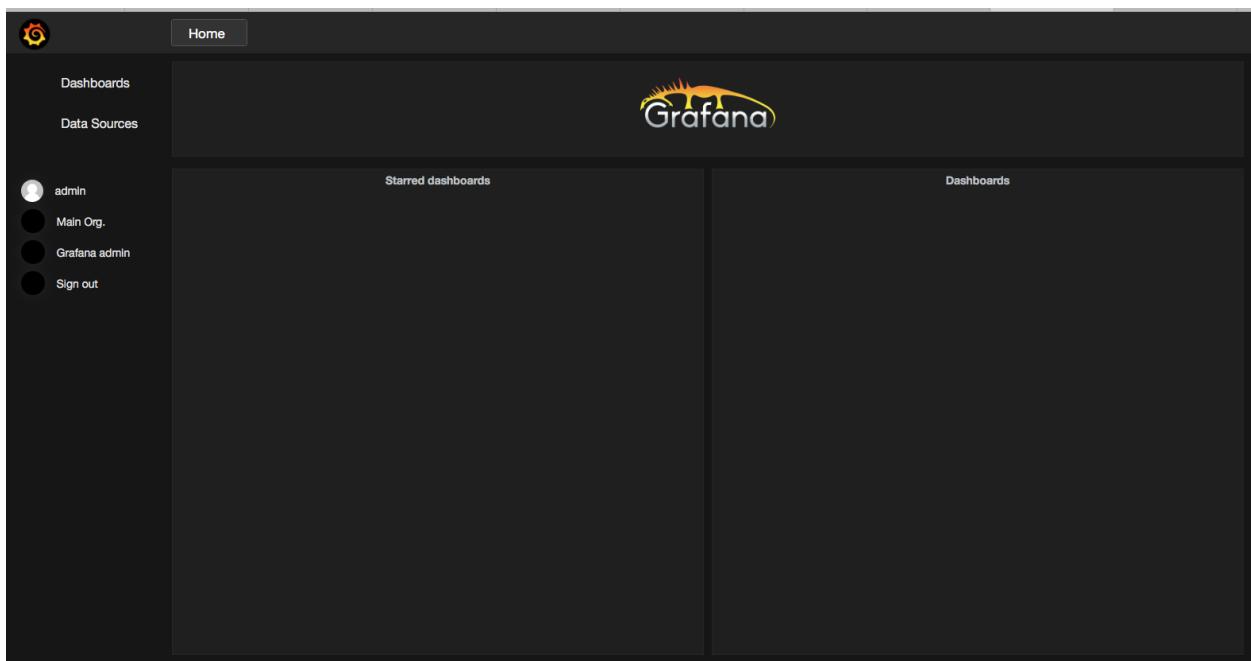
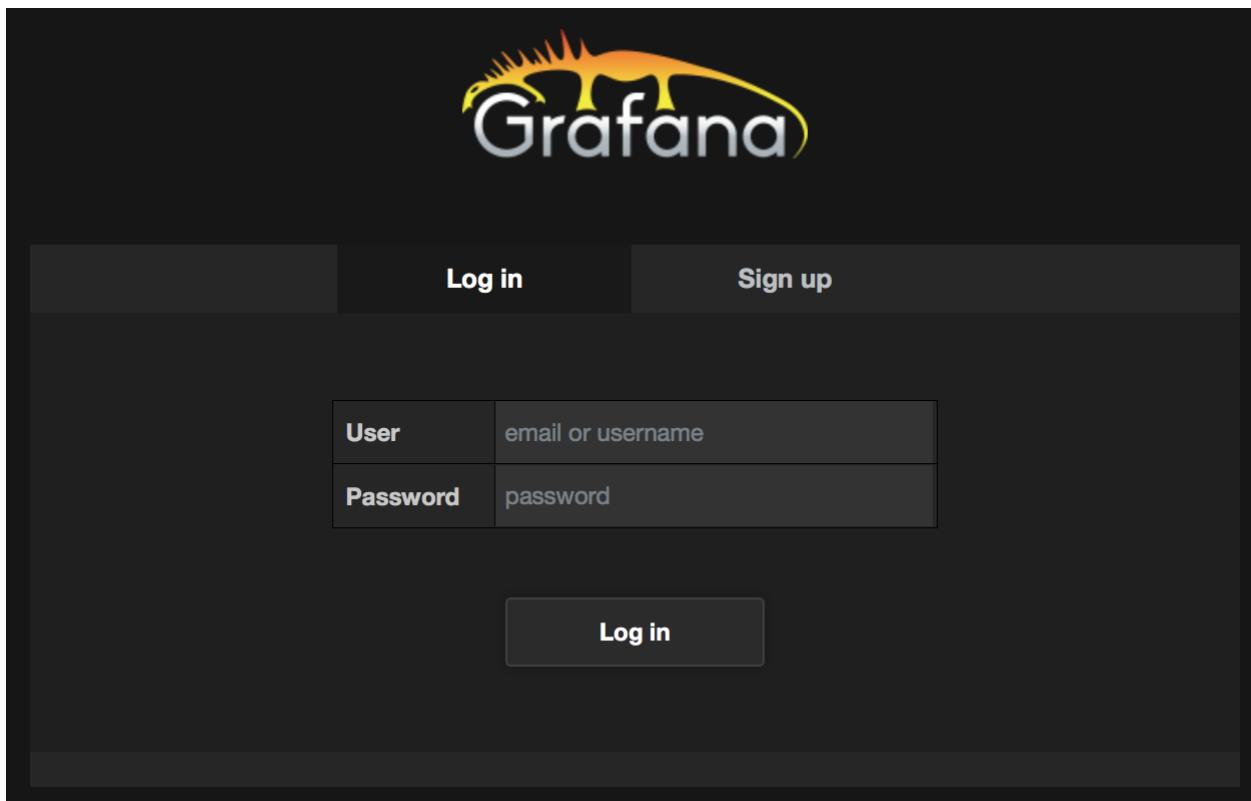
host:babel

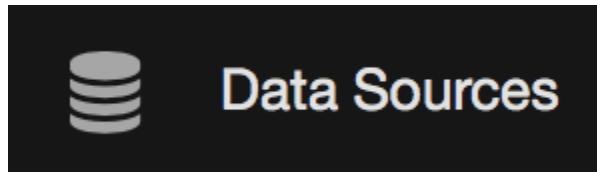
time	cpu	value
2015-10-24T10:34:43Z	"cpu0"	4038.97

cpu_busy

host:influxdb

time	cpu	value
2015-10-24T10:34:46Z	"cpu0"	353.08

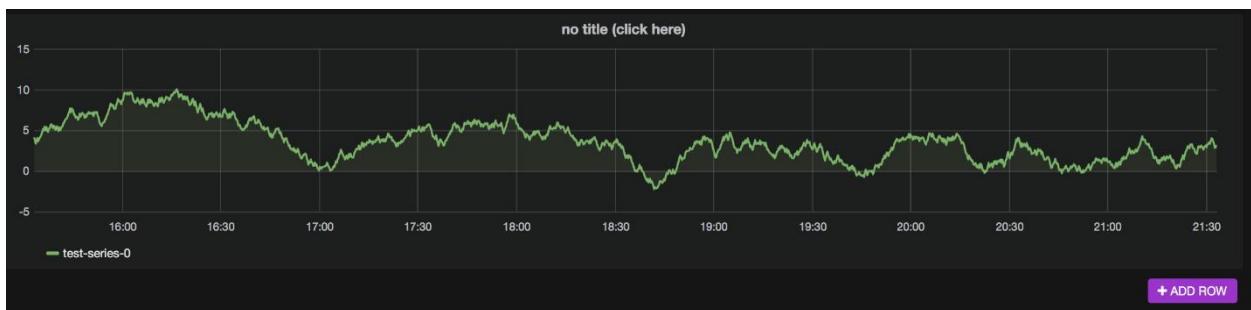
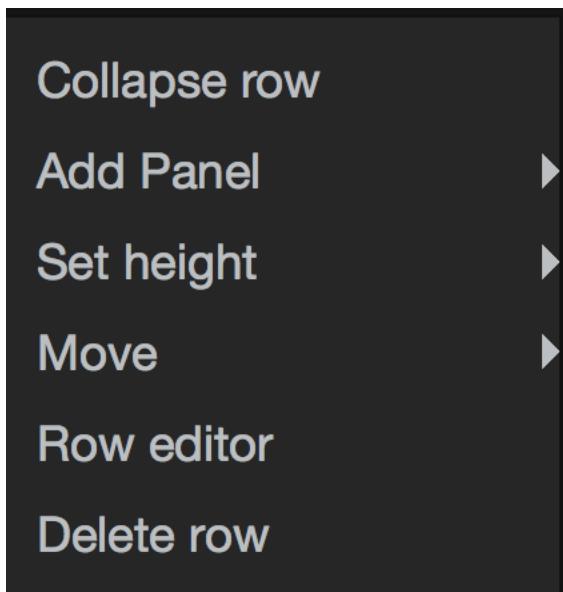




Edit data source

Name	telegraf	Default	<input checked="" type="checkbox"/>
Type	InfluxDB 0.9.x		
Http settings			
Url	http://127.0.0.1:8086	Access	proxy
Basic Auth	<input checked="" type="checkbox"/>		
InfluxDB Details			
Database	telegraf		
User	root	Password	****
		Save	Test Connection
		Cancel	

The image shows the Grafana navigation sidebar. It includes links for "Dashboards", "Data Sources", and "User Profile". The user profile section shows "admin", "Main Org.", "Grafana admin", and "Sign out". There is also a "+ ADD ROW" button. The top of the sidebar also shows "New dashboard", "Zoom Out", and a time range selector.

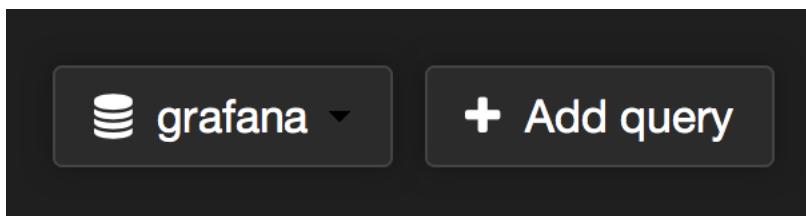


Graph General Metrics Axes & Grid Display Styles Time range Back to dashboard

i Test graph

This is just a test data source that generates random walk series. If this is your only data source open the left side menu and navigate to the data sources admin screen and add your data sources (you need to be logged in to do this). You can change data source using the button to the left of the **Add query** button.

grafana + Add query



```
👁 SELECT mean(value) +
      FROM select measurement
      WHERE +
      GROUP BY time($interval) + no fill
```

T Text

General

Edit text

Mode

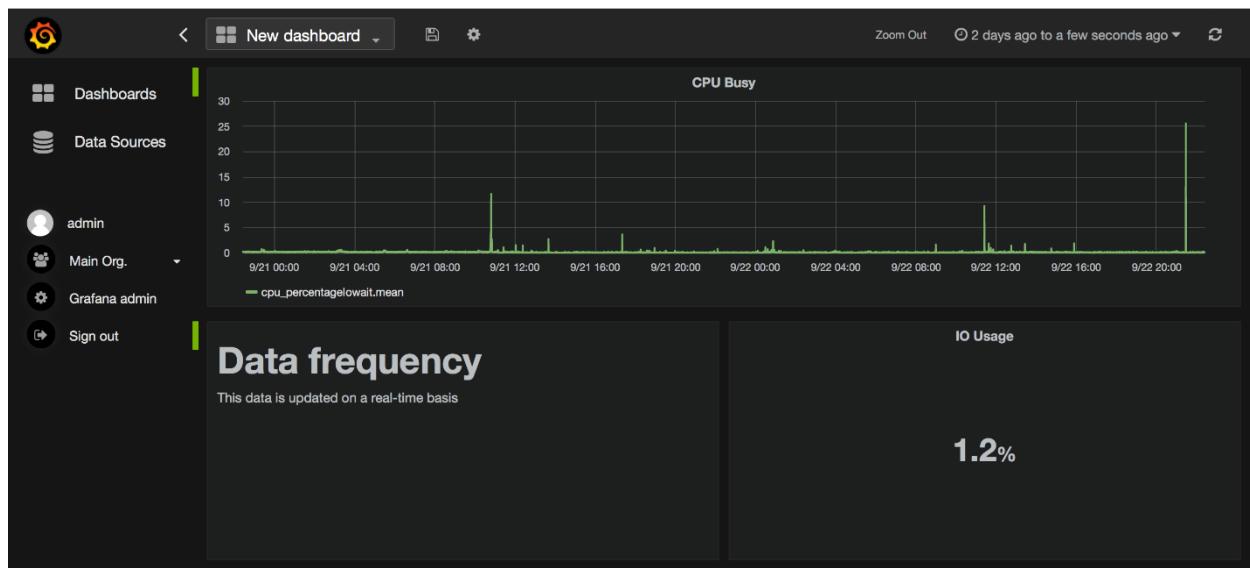
markdown



Content (This area uses Markdown. HTML is not supported)

Data frequency

This data is updated on a real-time basis



Chapter 9

The screenshot shows the Kibana interface with a dark header bar containing 'Discover', 'Visualize', 'Dashboard', and 'Settings'. Below the header is a navigation bar with 'Indices' (selected), 'Advanced', 'Objects', and 'About'. A sidebar on the left titled 'Index Patterns' contains a warning message: 'No default index pattern. You must select or create one to continue.' The main content area is titled 'Configure an index pattern' and includes a note: 'In order to use Kibana you must configure at least one index pattern. Index patterns are used to identify the Elasticsearch index to run search and analytics against. They are also used to configure fields.' There are two checkboxes: 'Index contains time-based events' (checked) and 'Use event times to create index names' (unchecked). A section for 'Index name or pattern' shows the input field 'logstash-*'. A message below the input field says 'Patterns allow you to define dynamic index names using * as a wildcard. Example: logstash-*'. At the bottom of the form is a button labeled 'Unable to fetch mapping. Do you have indices matching the pattern?'.

A terminal window titled 'mduffy - root@elastic: ~ - ssh - 92x6' displays the command output:

```
root@elastic:~# curl 'localhost:9200/_cat/indices?v'
health status index          pri  rep docs.count docs.deleted store.size pri.store.size
yellow open   .kibana           1    1      1             0       2.5kb      2.5kb
yellow open   logstash-2015.06.30 5    1     358             0     231.6kb     231.6kb
root@elastic:~#
```

kibana

Discover Visualize Dashboard Settings

Indices Advanced Objects About

Index Patterns

★ logstash-*

Configure an index pattern

In order to use Kibana you must configure at least one index pattern. Index patterns are used to identify the Elasticsearch index to run search and analytics against. They are also used to configure fields.

Index contains time-based events
 Use event times to create index names

Index name or pattern
Patterns allow you to define dynamic index names using * as a wildcard. Example: logstash-*
logstash-*

Time-field name refresh fields
@timestamp

Create

kibana

Discover Visualize Dashboard Settings

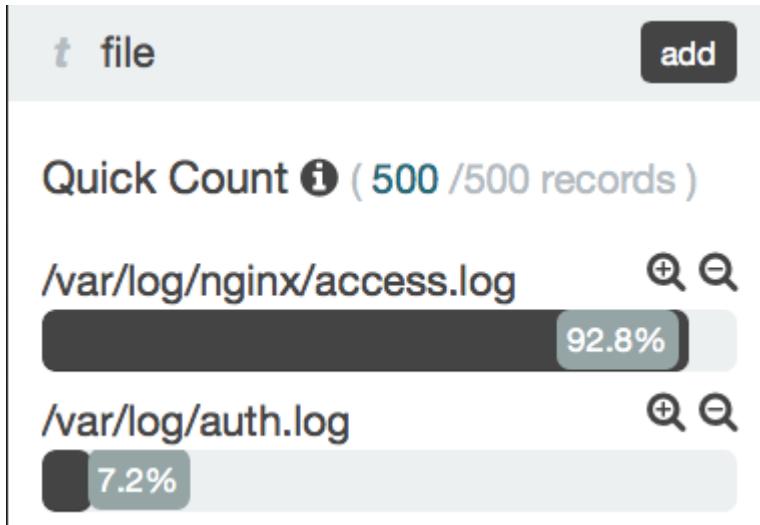
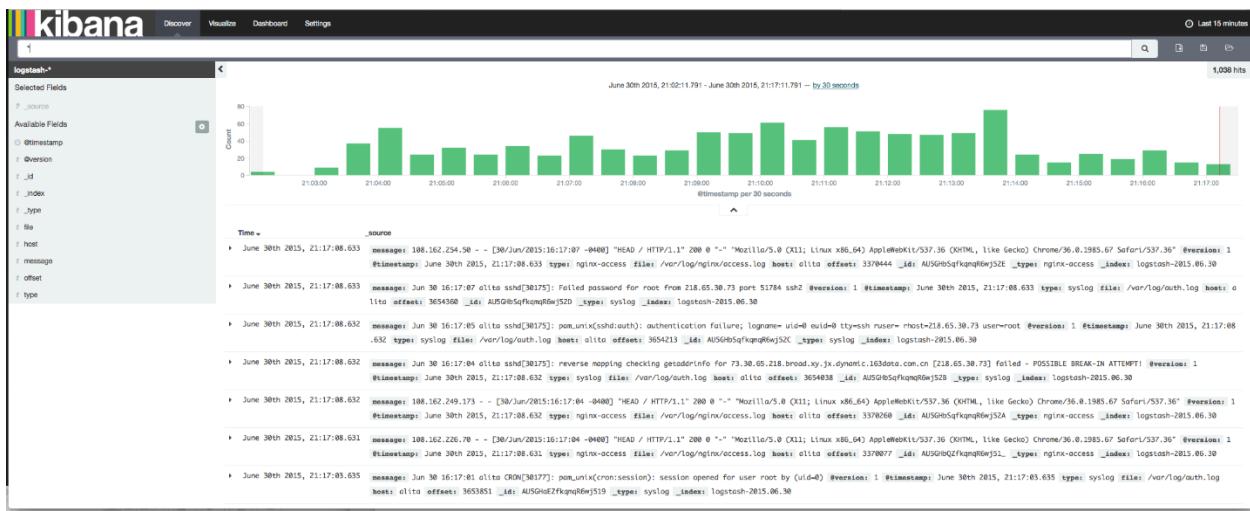
Indices Advanced Objects About

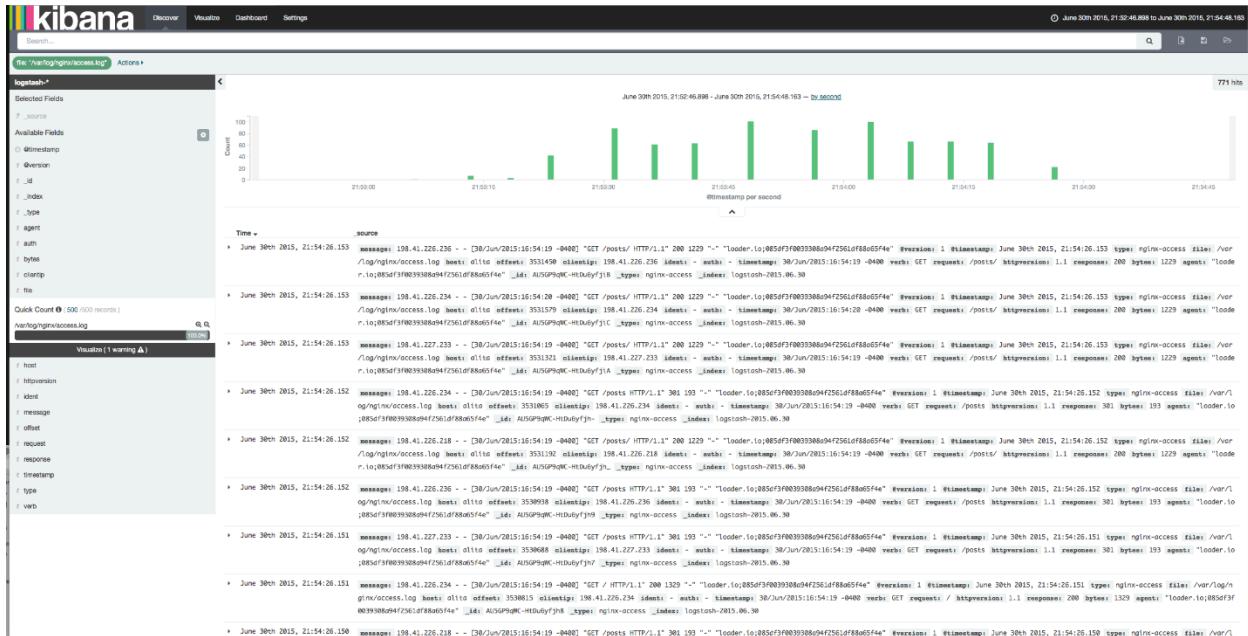
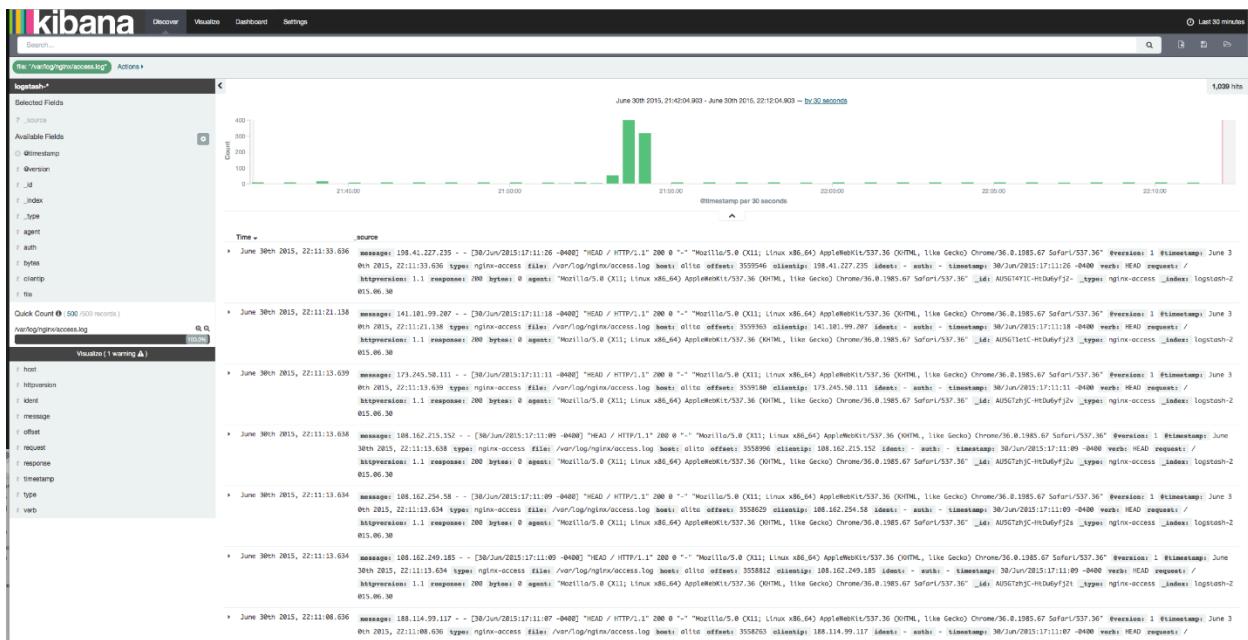
Index Patterns [+ Add New](#)

★ logstash-* ★ ○ □

This page lists every field in the **logstash-*** index and the field's associated core type as recorded by Elasticsearch. While this list allows you to view the core type of each field, changing field types must be done using Elasticsearch's [Mapping API](#).

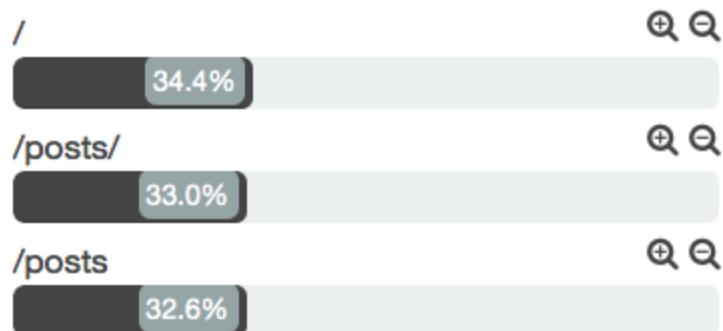
Fields (16)	Scripted fields (0)				
<code>name</code> <small>✓</small>	<code>type</code> <small>✓</small>	<code>format</code> <small>✓</small>	<code>analyzed</code> <small>✓</small>	<code>indexed</code> <small>✓</small>	<code>controls</code>
<code>_source</code>	<code>_source</code>				<small>✓</small>
<code>type</code>	<code>string</code>		<small>✓</small>	<small>✓</small>	<small>✓</small>
<code>@version</code>	<code>string</code>			<small>✓</small>	<small>✓</small>
<code>_type</code>	<code>string</code>			<small>✓</small>	<small>✓</small>
<code>_id</code>	<code>string</code>				<small>✓</small>
<code>file</code>	<code>string</code>	<small>✓</small>		<small>✓</small>	<small>✓</small>
<code>host.raw</code>	<code>string</code>			<small>✓</small>	<small>✓</small>
<code>offset.raw</code>	<code>string</code>			<small>✓</small>	<small>✓</small>
<code>offset</code>	<code>string</code>	<small>✓</small>	<small>✓</small>		<small>✓</small>
<code>file.raw</code>	<code>string</code>			<small>✓</small>	<small>✓</small>
<code>host</code>	<code>string</code>	<small>✓</small>		<small>✓</small>	<small>✓</small>
<code>_index</code>	<code>string</code>				<small>✓</small>
<code>type.raw</code>	<code>string</code>			<small>✓</small>	<small>✓</small>
<code>message</code>	<code>string</code>	<small>✓</small>		<small>✓</small>	<small>✓</small>
<code>@timestamp</code> <small>⌚</small>	<code>date</code>			<small>✓</small>	<small>✓</small>
<code>geoip.location</code>	<code>geo_point</code>			<small>✓</small>	<small>✓</small>



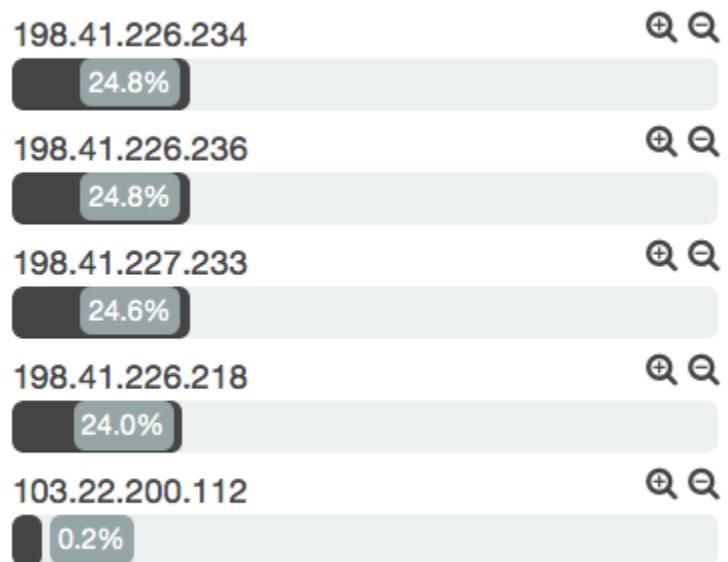


 request

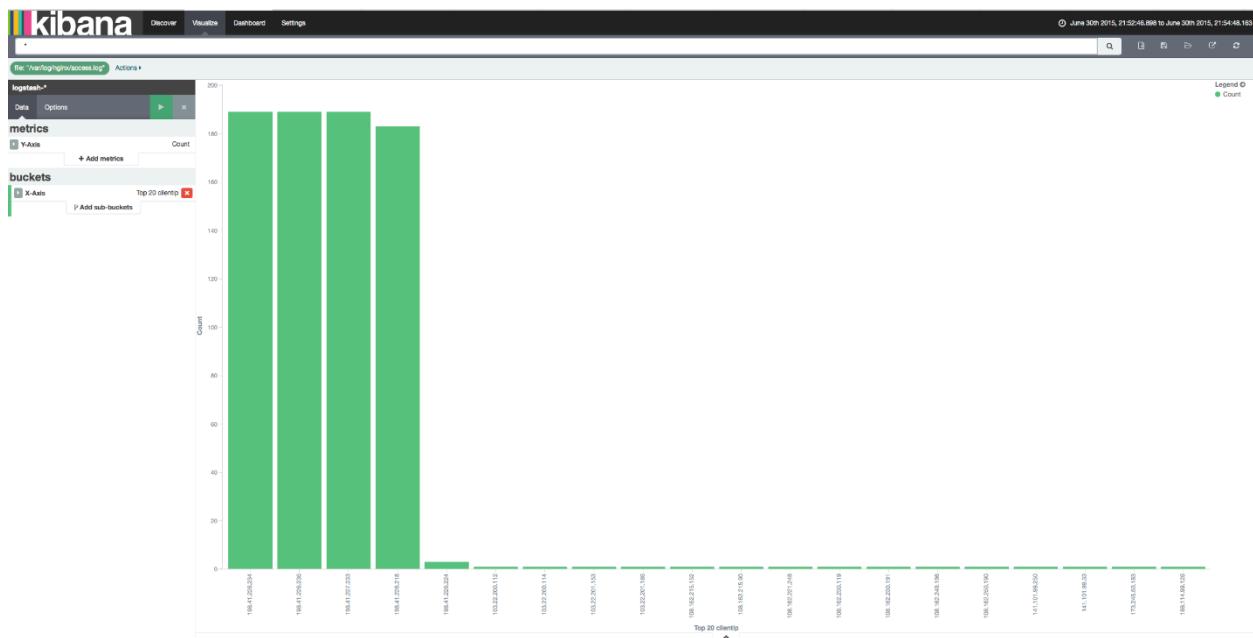
Quick Count  (500 /500 records)



Quick Count  (500 /500 records)



Visualize (1 warning )



logstash-*

Data Options ▶ ×

metrics

Y-Axis Count

+ Add metrics

buckets

X-Axis Top 20 clientip

Split Chart

Rows Columns

Sub Aggregation Terms

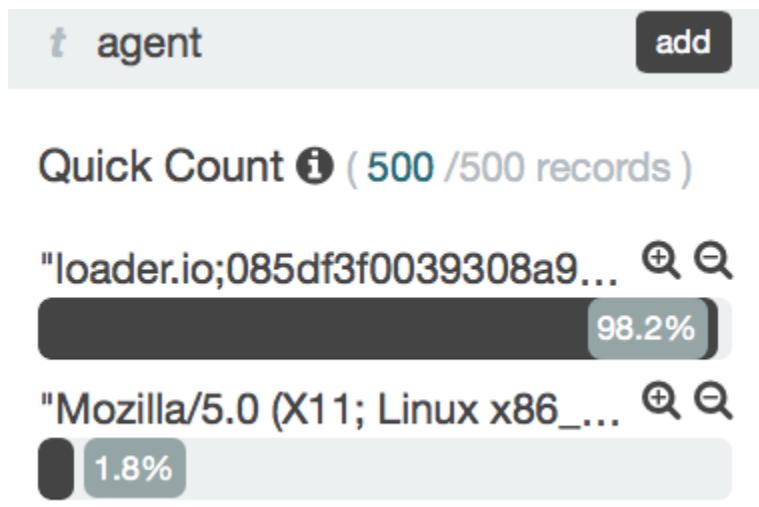
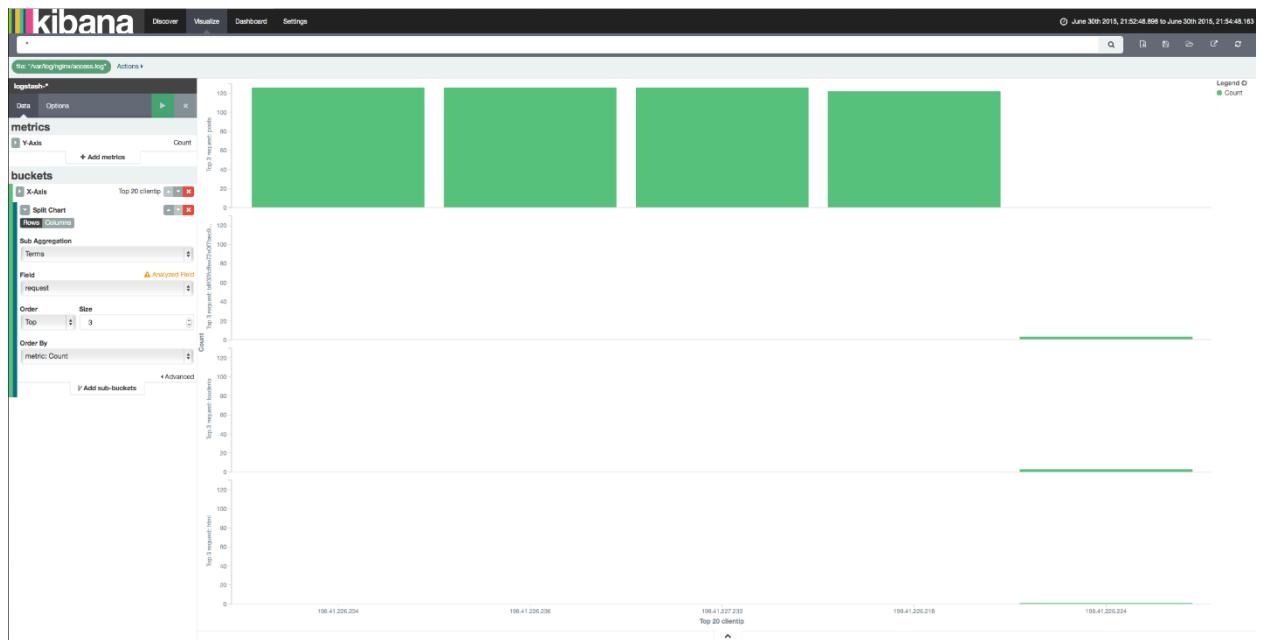
Field request ⚠ Analyzed Field

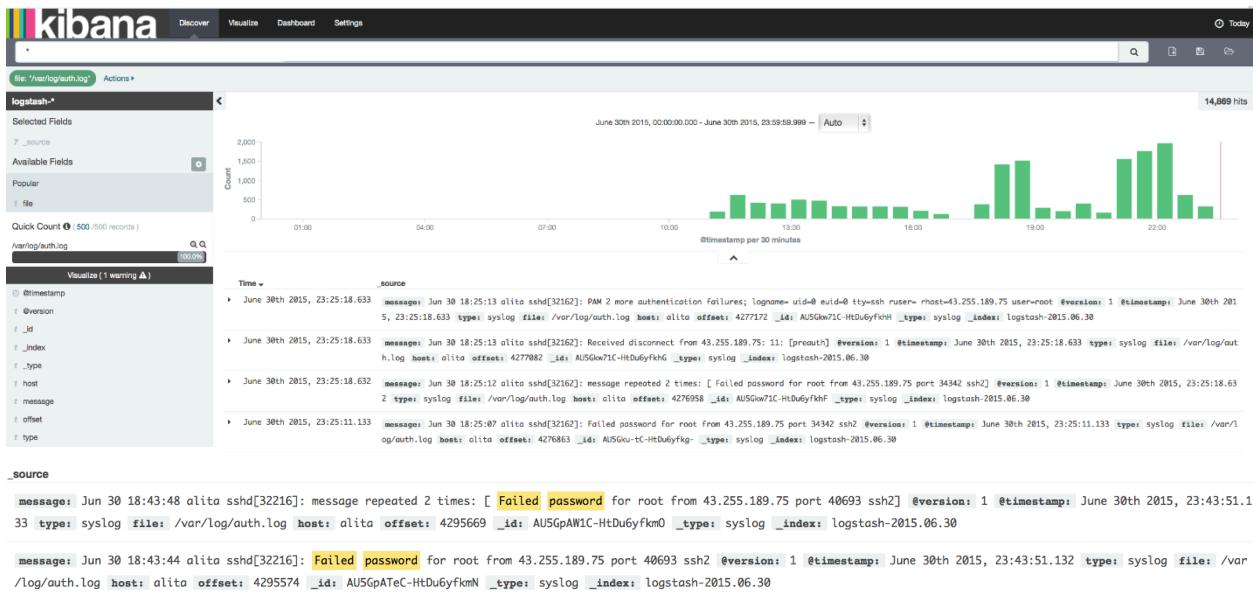
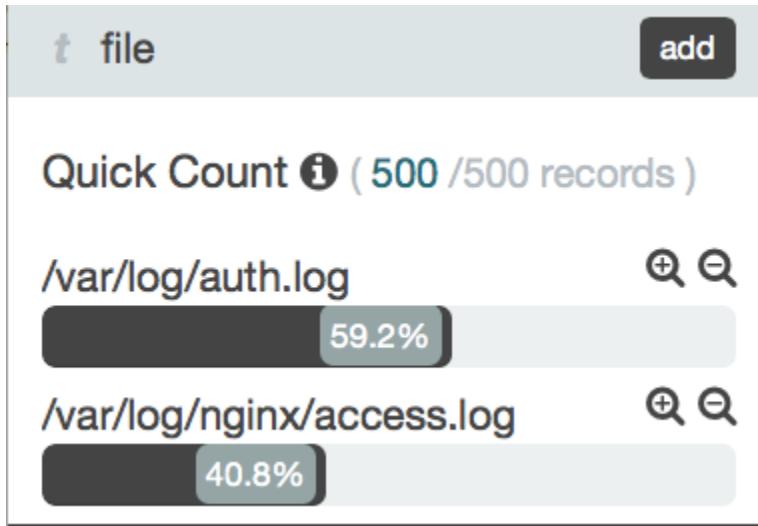
Order Top Size 3

Order By metric: Count

Add sub-buckets Advanced

This screenshot shows the Logstash Metrics interface. At the top, there's a header with tabs for 'Data' and 'Options', and a green '▶' button. Below the header, the word 'metrics' is displayed. Under 'metrics', there's a section for 'Y-Axis' set to 'Count' with a '+ Add metrics' button. The main area is titled 'buckets'. It shows an 'X-Axis' configuration for 'Top 20 clientip'. There's a 'Split Chart' option with 'Rows' selected. Under 'Sub Aggregation', 'Terms' is chosen. The 'Field' dropdown contains 'request' with an orange warning icon indicating it's an analyzed field. In the 'Order' section, 'Top' is selected and 'Size' is set to '3'. The 'Order By' section lists 'metric: Count'. At the bottom, there are buttons for 'Add sub-buckets' and 'Advanced'.





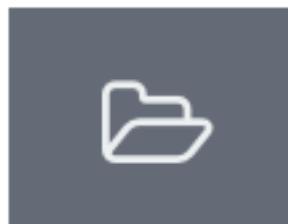
```
Failed password for backup from 208.109.103.212 port 47550 ssh2 @version:  
799 _id: AU5GS4UkC-HtDu6yfjxm _type: syslog _index: logstash-2015.06.30
```

```
Failed password for uucp from 208.109.103.212 port 45944 ssh2 @version: 1  
0 _id: AU5GS2m7C-HtDu6yfjxM _type: syslog _index: logstash-2015.06.30
```

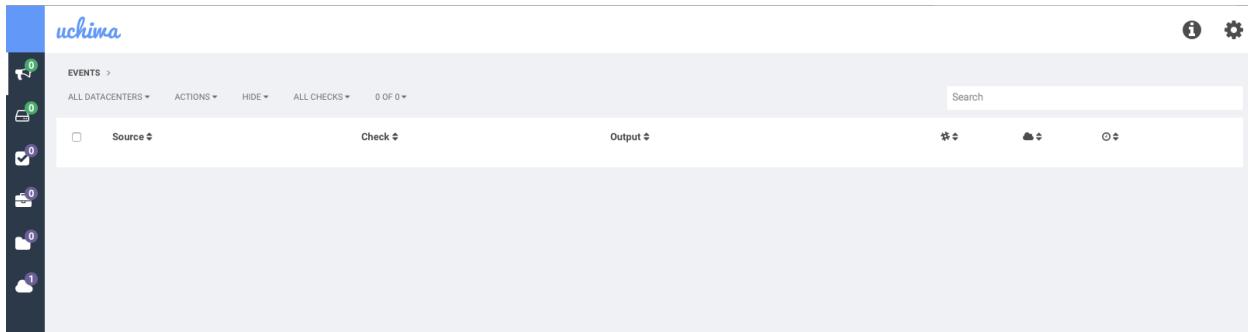
```
Failed password for uucp from 62.210.7.55 port 62775 ssh2 @version: 1 @tir  
id: AU5GGgHpfkqmqR6wj5x- _type: syslog _index: logstash-2015.06.30
```

```
Failed password for nobody from 189.211.79.178 port 35616 ssh2 @version: 1  
04 _id: AU5FkzrjfjkqmqR6wj46E _type: syslog _index: logstash-2015.06.30
```

```
Failed password for games from 189.211.79.178 port 35508 ssh2 @version: 1  
6 _id: AU5FkwqAfkqmqR6wj452 _type: syslog _index: logstash-2015.06.30
```

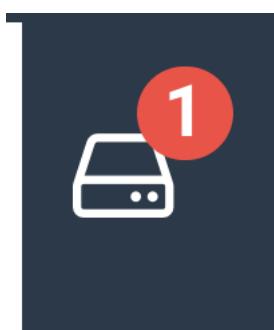


Chapter 10



The screenshot shows the 'CLIENTS' section of the uchima interface. The left sidebar has a blue header with a white icon and a green '0'. Below it are icons for a monitor (1), a file (0), a briefcase (0), a folder (0), and a cloud (0). The main area has a light gray background with a search bar at the top right. It displays one client entry: 'sensuhost' with IP '10.131.154.77'. The table has columns for Name, IP, and Events. On the right, there are three small icons: a gear, a cloud, and a circle. Below the table, there is a row with 'Example Site' (0.20.0) and 'a few seconds ago'.

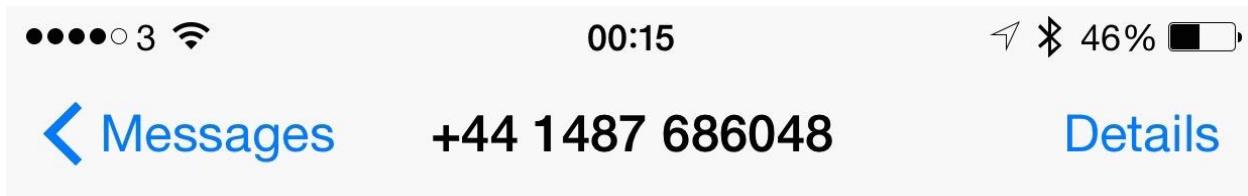
Name	IP	Events
sensuhost	10.131.154.77	



CLIENTS >					
ALL DATACENTERS ▾	ACTIONS ▾	SUBSCRIPTIONS ▾	1 OF 1 ▾	Search	
	Name ▾	IP ▾	Events ▾	Cloud ▾	Up ▾
	sensuhost	10.131.154.77	DNS CRITICAL: Could not resolve sdfdsssf.com	Example Site	0.20.0 a few seconds ago

API Credentials

Live	<p>AccountSID Used to exercise the REST API ACd4704838e15e99f35203c5cde1ce82a1</p> <p>AuthToken (Request a Secondary Token) Keep this somewhere safe and secure  Learn more about REST API Credentials</p>	<p>Test AccountSID Used to exercise the REST API AC89427835d6d2666a39b893b7fd980f38</p> <p>Test AuthToken Keep this somewhere safe and secure  Learn more about Test Credentials</p>
------	---	---



Message
Today 00:15

Sent from your Twilio trial account -
Sensu RESOLVED: sensuhost/
check_fail (10.131.154.77) Resolving
on request of the API

Chapter 11

The screenshot shows the official AWS website homepage. At the top, there is a navigation bar with links for "Menu", the "Amazon Web Services" logo, "AWS re:Invent", "Products", and "More". On the right side of the top bar are "English" and "My Account" dropdown menus, followed by a prominent yellow "Create an AWS Account" button, which is highlighted with a red circle. Below the top bar, there is a large graphic featuring a green dollar sign icon pointing downwards, set against a background of a computer monitor displaying a grid and a smartphone. To the left of the graphic, the text "Realize Value with AWS: IDC projects 64% reduction in Total Cost of Ownership" is displayed, along with a link to "Download the full report ». To the right of the graphic, there is a callout box titled "Get Started with AWS for Free" containing a "Create a Free Account" button. Below this box, there is information about "Amazon S3" and a link to "View AWS Free Tier Details »".



Identity & Access Management

Access Control and Key Management

Welcome to Identity and Access Management

IAM users sign-in link:

<https://196761009956.signin.aws.amazon.com/console>

[Customize](#) | [Copy Link](#)

IAM Resources

Users: 0

Roles: 0

Groups: 0

Identity Providers: 0

[Customer Managed Policies: 0](#)

Security Status



1 out of 5 complete.

Delete your root access keys	
Activate MFA on your root account	
Create individual IAM users	
Use groups to assign permissions	
Apply an IAM password policy	

Manage MFA Device



If your virtual MFA application supports scanning QR codes, scan the following image with your smartphone's camera.



▶ [Show secret key for manual configuration](#)

After the application is configured, enter two consecutive authentication codes in the boxes below and click Activate Virtual MFA.

Authentication Code 1

Authentication Code 2

[Cancel](#)

[Previous](#)

[Activate Virtual MFA](#)

Enter User Names:

1. test1
2. test2
3. test3
4. test4
5. |

Maximum 64 characters each

Generate an access key for each user

Users need access keys to make secure REST or Query proto

For users who need access to the AWS Management Console

Attach Policy

Select up to two policies to attach to the group.

Filter: Policy Type ▾		Q Search	Showing 148 results	
	Policy Name	Attached Entities	Creation Time	Edited Time
<input type="checkbox"/>	 AdministratorAccess	0	2015-02-06 18:39 UTC	2015-02-06 18:39 UTC
<input type="checkbox"/>	 AmazonAPIGatewayAdmin...	0	2015-07-09 18:34 UTC+0100	2015-07-09 18:34 UTC...
<input type="checkbox"/>	 AmazonAPIGatewayInvok...	0	2015-07-09 18:36 UTC+0100	2015-07-09 18:36 UTC...
<input type="checkbox"/>	 AmazonAppStreamFullAcc...	0	2015-02-06 18:40 UTC	2015-02-06 18:40 UTC
<input type="checkbox"/>	 AmazonAppStreamReadO...	0	2015-02-06 18:40 UTC	2015-02-06 18:40 UTC
<input type="checkbox"/>	 AmazonCognitoDeveloper...	0	2015-03-24 17:22 UTC	2015-03-24 17:22 UTC
<input type="checkbox"/>	 AmazonCognitoPowerUser	0	2015-03-24 17:14 UTC	2015-03-24 17:14 UTC
<input type="checkbox"/>	 AmazonCognitoReadOnly	0	2015-03-24 17:06 UTC	2015-03-24 17:06 UTC
<input type="checkbox"/>	 AmazonDynamoDBFullAcc...	0	2015-02-06 18:40 UTC	2015-02-06 18:40 UTC
<input type="checkbox"/>	 AmazonDynamoDBFullAcc...	0	2015-02-06 18:40 UTC	2015-02-06 18:40 UTC
<input type="checkbox"/>	 AmazonDynamoDBReadO...	0	2015-02-06 18:40 UTC	2015-02-06 18:40 UTC
<input type="checkbox"/>	 AmazonEC2ContainerServ...	0	2015-03-19 18:45 UTC	2015-03-19 18:45 UTC
<input type="checkbox"/>	 AmazonEC2ContainerServ...	0	2015-04-24 17:54 UTC+0100	2015-04-24 17:54 UTC...
<input type="checkbox"/>	 AmazonEC2ContainerServ...	0	2015-04-09 17:14 UTC+0100	2015-04-09 17:14 UTC...
...				

[Cancel](#)

[Previous](#)

[Next Step](#)

▼ Password Policy

A password policy is a set of rules that define the type of password an IAM user can set. For more information about password policies, go to [Managing Passwords](#) in Using IAM.

Currently, this AWS account does not have a password policy. Specify a password policy below.

Minimum password length:

6

- Require at least one uppercase letter [i](#)
 - Require at least one lowercase letter [i](#)
 - Require at least one number [i](#)
 - Require at least one non-alphanumeric character [i](#)
 - Allow users to change their own password [i](#)
 - Enable password expiration [i](#)
- Password expiration period (in days):
- Prevent password reuse [i](#)
- Number of passwords to remember:
- Password expiration requires administrator reset [i](#)

Apply password policy

Delete password policy



EC2
Virtual Servers in the
Cloud

Create Security Group

Security group name **Description**
VPC * denotes default VPC

Security group rules:

Inbound **Outbound**

Type	Protocol	Port Range	Source
This security group has no rules			

Add Rule

Create **Cancel**

Inbound **Outbound**

Type	Protocol	Port Range	Source
HTTP	TCP	80	Anywhere <input type="text" value="0.0.0.0/0"/> <input type="button" value="X"/>
HTTPS	TCP	443	Anywhere <input type="text" value="0.0.0.0/0"/> <input type="button" value="X"/>
SSH	TCP	22	Custom IP <input type="text" value="88.44.55.22/31"/> <input type="button" value="X"/>

Add Rule

Inbound **Outbound**

Type	Protocol	Port Range	Destination
SMTP	TCP	25	Custom IP <input type="text"/> <input type="button" value="X"/>
DNS (UDP)	UDP	53	Custom IP <input type="text"/> <input type="button" value="X"/>
DNS (TCP)	TCP	53	Custom IP <input type="text"/> <input type="button" value="X"/>

Add Rule

Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more about instance types and how they can meet your computing needs.](#)

Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
<input checked="" type="checkbox"/>	General purpose	t2.micro <small>Free tier eligible</small>	1	1	EBS only	-	Low to Moderate
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to Moderate
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	Low to Moderate
<input type="checkbox"/>	General purpose	m4.large	2	8	EBS only	Yes	Moderate
<input type="checkbox"/>	General purpose	m4.xlarge	4	16	EBS only	Yes	High
<input type="checkbox"/>	General purpose	m4.2xlarge	8	32	EBS only	Yes	High

Number of instances i

Purchasing option i Request Spot Instances

Network i C Create new VPC

Subnet i C Create new subnet

Auto-assign Public IP i

IAM role i C Create new IAM role

Shutdown behavior i

Enable termination protection i Protect against accidental termination

Monitoring i Enable CloudWatch detailed monitoring
Additional charges apply.

Tenancy i
Additional charges will apply for dedicated tenancy.

Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Step 5: Tag Instance

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver. [Learn more](#)

Key (127 characters maximum)	Value (255 characters maximum)
Environment	QC
Department	WebOps
App	BethsMarvellousSite
Designer	Griff Morgan-Duffy
OriginatingDesignCompany	Mighty Meg productions

Create Tag (Up to 10 tags maximum)

Assign a security group: Create a new security group
 Select an existing security group

Security Group ID	Name	Description
<input type="checkbox"/> sg-9925f6fd	default	default VPC security group
<input type="checkbox"/> sg-e808d08c	webservers	Rules for Web Servers

Select an existing key pair or create a new key pair

X

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

Choose an existing key pair

Select a key pair

No key pairs found



No key pairs found

You don't have any key pairs. Please create a new key pair by selecting the [Create a new key pair](#) option above to continue.

Cancel

Launch Instances

Load Balancer Protocol	Load Balancer Port	Instance Protocol	Instance Port
HTTP	80	HTTP	80
HTTPS (Secure HTTP)	443	HTTP	443

Add

Certificate Type: Choose an existing SSL Certificate
 Upload a new SSL Certificate

Certificate Name:* e.g. myServerCert

Private Key:*

(pem encoded)

Public Key Certificate:*

(pem encoded)

Certificate Chain:

(pem encoded)

Ping Protocol TCP

Ping Port 80

Advanced Details

Response Timeout 5 seconds

Health Check Interval 30 seconds

Unhealthy Threshold 2

Healthy Threshold 10

Load Balancer Name	DNS Name	Port Configuration	Availability Zones	Instance Count	Health Check
web	web-100965936.us-west-2.el...	80 (HTTP) forwarding to 80 (...)	us-west-2a, us-west-2b...	1 Instance	TCP:80

Load balancer: web

Description Instances Health Check Monitoring Security Listeners Tags

DNS Name: web-100965936.us-west-2.elb.amazonaws.com (A Record)



Route 53

Scalable DNS and Domain Name Registration



DNS Management

If you already have a domain name, such as example.com, Route 53 can tell the Domain Name System (DNS) where to find web servers, mail servers, and other resources for your domain.

[Learn More](#)

[Get Started Now](#)



Health Check

Route 53 can monitor the health and performance of your application as well as your web servers and other resources. Route 53 can also redirect traffic to resources where your application is healthy.

[Learn More](#)

[Get Started Now](#)



Domain Registration

If you need a domain name, you can find an available name and buy it using Route 53. You can also make Route 53 the registrar for existing domains that you bought from other registrars.

[Learn More](#)

[Get Started Now](#)

Create Hosted Zone

A hosted zone is a container that holds information about how you want to route traffic for a domain, such as example.com, and its subdomains.

Domain Name:

Comment:

Type:

Public Hosted Zone



A public hosted zone determines how traffic is routed on the Internet.

Value	Evaluate Target Health	Health Check ID
ns-59.awsdns-07.com. ns-954.awsdns-55.net. ns-1216.awsdns-24.org. ns-1862.awsdns-40.co.uk.	-	-
ns-59.awsdns-07.com. awsdns-hostmaster.amazon.	-	-

Create Record Set

Name: example .stunthamster.com.

Type: A – IPv4 address

Alias: Yes No

TTL (Seconds): 300

Value: 88.33.44.55

IPv4 address. Enter multiple addresses on separate lines.
Example:
192.0.2.235
198.51.100.234

Routing Policy: Simple

Route 53 responds to queries based only on the values in this record. [Learn More](#)

Chapter 12



Step 1: Complete your profile.

*All fields are required

Your Name

*

First and last name, please

Your Phone Number

*

Please include area or international code.

Your Email Address

*

you@yourbusiness.com

Your New Relic Password

*

Pick something secure!

New Relic® APM™	New Relic® BROWSER™	New Relic® MOBILE™	New Relic® SERVERS™	New Relic® INSIGHTS™	New Relic® SYNTHETICS™
Our flagship product helps you monitor the performance and availability of your web applications.	Browser specific data so you can understand your software's performance from an end-user's perspective.	Quickly pinpoint performance problems in your mobile apps operating in complex production environments.	Find health issues to things like CPU utilization, memory utilization, disk I/O utilization, and disk capacity.	Query application business metrics, performance data, and customer behaviors at lightning speed.	Test and find issues with your software's business critical functionality before real users do.

New Relic APM BROWSER SYNTHETICS MOBILE SERVERS PLUGINS INSIGHTS Alerts Beta Tools Help Stunt Hamster ltd_2 3

Applications Service maps Key transactions Alerts

Filter applications Off Show labels Add more P

Name	End user	Page views	App server	Throughput	Error %
My Application		0.439 ms	3 rpm	0%	

1 Applications 1 - 1 of 1 < >

Recent events
No Events In The Last 3 Days.

Kiosk mode Permalink

New Relic APM BROWSER SYNTHETICS MOBILE SERVERS PLUGINS INSIGHTS Alerts Beta Tools Help Stunt Hamster ltd_2 1

Applications Service maps Key transactions Alerts

APPS My Application TIME PICKER Last 30 minutes ending now

MONITORING Non-web transactions response time 385 ms AVERAGE Apdex score ② NS [0.5]* APP SERVER

Overview 500 ms 450 ms 400 ms 350 ms 300 ms 250 ms 200 ms 150 ms 100 ms 50 ms

Non-web transactions JDBC Background external 14:05 14:10 14:15 14:20 14:25 14:30

Transactions App server time Error rate 0.00 % Member of policy Default application alert policy

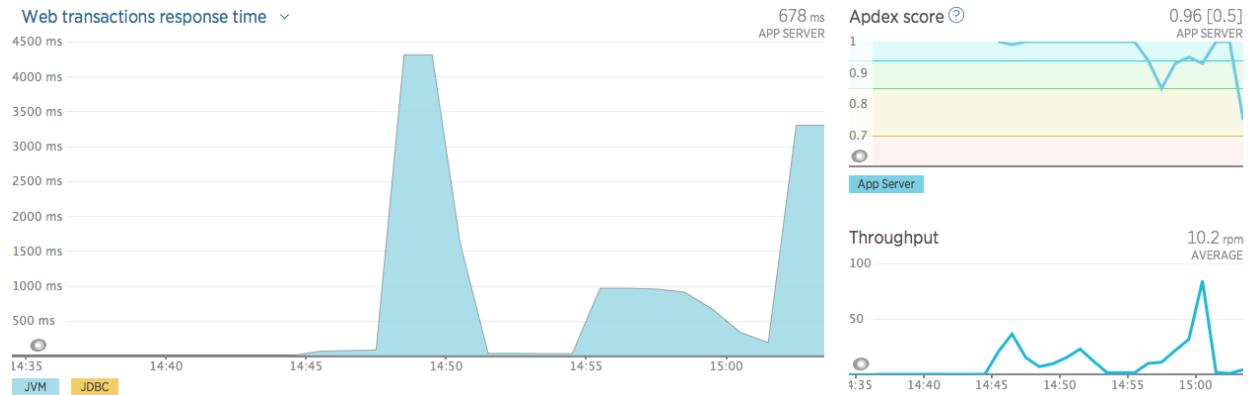
ServletContextListener/com.liferay.portal.spring.c 33.2 sec Transaction traces: n/a

/com.liferay.portal.action.LayoutAction 8.15 sec Transaction traces: n/a

com.liferay.portal.servlet.MainServlet/init 6.68 sec Transaction traces: n/a

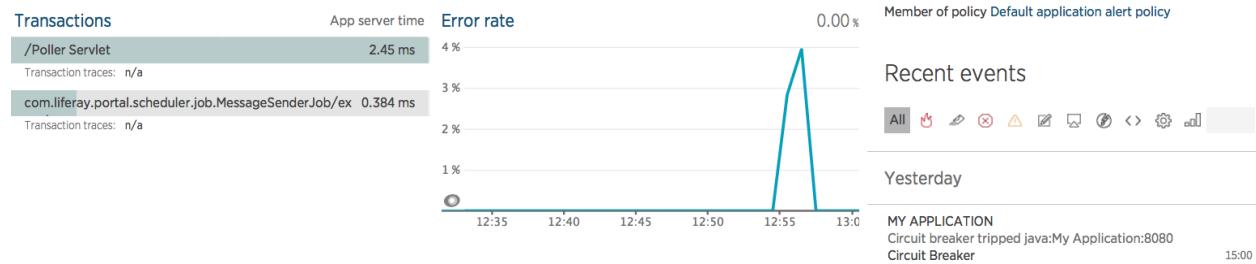
Web transactions 0 ms 3 rpm 0.00 err% ② My Application

Recent events
No Events In The Last 3 Days.



Web transactions response time

Compare with yesterday and last week



Transactions

App server time

/com.liferay.portlet.wiki.action.EditPageA 7.61 sec

Transaction traces: 7.6 s

/com.liferay.portlet.wiki.action.ViewNode 4.17 sec

Transaction traces: 8.3 s

/com.liferay.portlet.login.action.LoginActi 2,310 ms

Transaction traces: n/a

/com.liferay.portal.action.LayoutAction 1,810 ms

Transaction traces: 8.8 s 4.8 s

/html/portal/layout/view/portlet.jsp 996 ms

Transaction traces: 2.3 s

Error rate

0.50 %

4 %

3 %

2 %

1 %



12:40

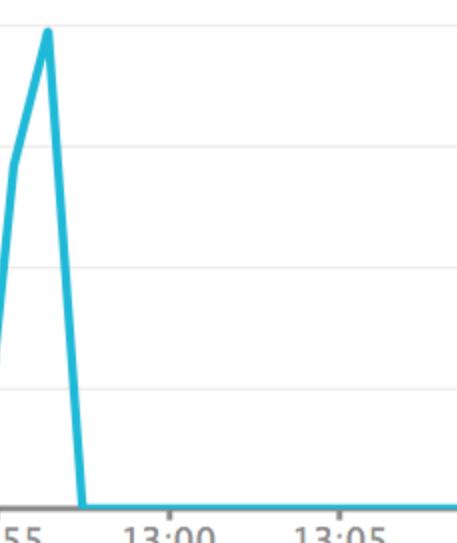
12:45

12:50

12:55

13:00

13:05



Recent events



Today

MY APPLICATION

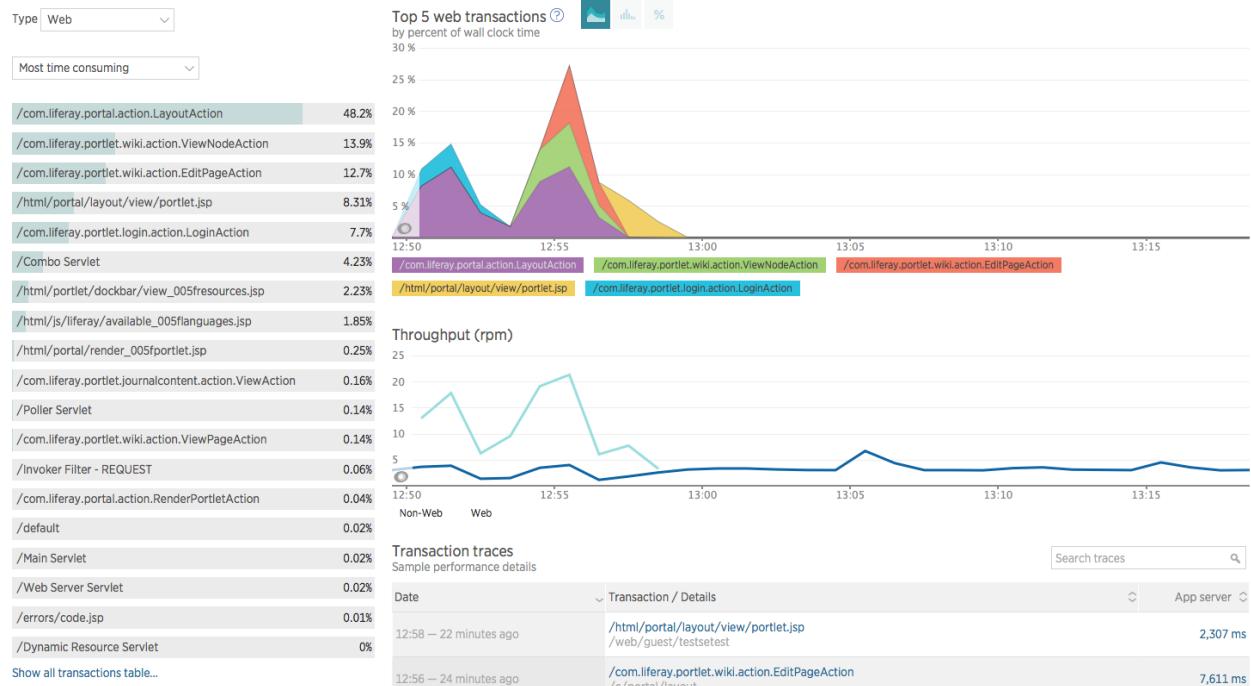
Circuit breaker tripped java:My Application:8080
Circuit Breaker 12:50

Yesterday

1 server



Server name	Apdex	Resp. time	Throughput	Error Rate	CPU usage	Memory
liferay 1 app instance	0.88 _{0.5}	576 ms	3 rpm	0.50 %	21 %	1.3 GB



Sep 10, '15 12:56 pm 7,610 ms
TRACE TIME RESP. TIME

Summary

Trace details



JspServlet.service() html/common/themes/portlet.jsp render_005fportlet_jsp.service()
com.liferay.portlet.StrutsPortlet/render html/portal/render_005fportlet.jsp EditPageAction.execute()

Slowest components	Count	Duration	%
JspServlet.service()	2	7,600 ms	100%
html/common/themes/portlet.jsp	1	5 ms	0%
render_005fportlet_jsp.service()	1	4 ms	0%
com.liferay.portlet.StrutsPortlet/render	1	4 ms	0%
html/portal/render_005fportlet.jsp	1	2 ms	0%
EditPageAction.execute()	1	1 ms	0%
Total		7,610 ms	100%

Sep 10, '15 12:56 pm 7,610 ms
TRACE TIME RESP. TIME

Summary **Trace details**

Expand performance problems Collapse all

Duration (ms)	Duration (%)	Segment	Drilldown	Timestamp
7,610	100.00%	render_005fportlet_jsp.service()	(@)	0.000 s
2.0	0.03%	html/portal/render_005fportlet.jsp	(@)	0.000 s
0	0.00%	com.liferay.portlet.InvokerPortletImpl/render	(@)	0.002 s
7,610	99.92%	com.liferay.portlet.StrutsPortlet/render	(@)	0.002 s
1.0	0.01%	> EditPageAction.execute()		0.006 s
7,600	99.86%	> InvokerFilter.doFilter()	(@)	0.007 s
7,600	99.86%	> JspServlet.service()	(@)	0.007 s
7,600	99.84%	> portlet_jsp.service()	(@)	0.007 s
7,600	99.84%	> html/common/themes/portlet.jsp	(@)	0.007 s
0	0.00%	> page_jsp.service()		0.008 s
0	0.00%	> page_jsp.service()		0.008 s
7,600	99.78%	> InvokerFilter.doFilter()	(@)	0.008 s
7,600	99.78%	JspServlet.service()	(@)	0.008 s

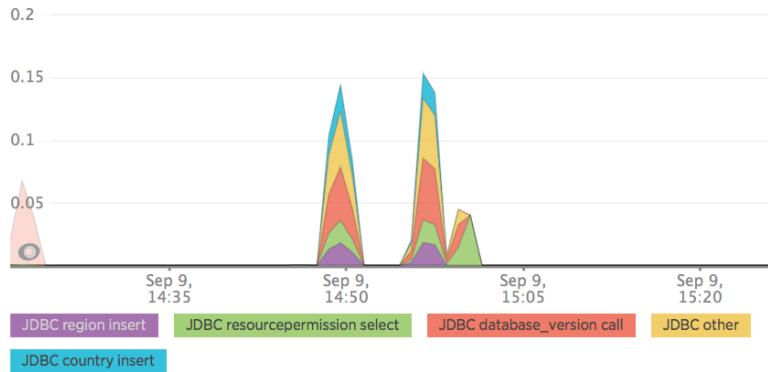
SORT BY

Most time consuming

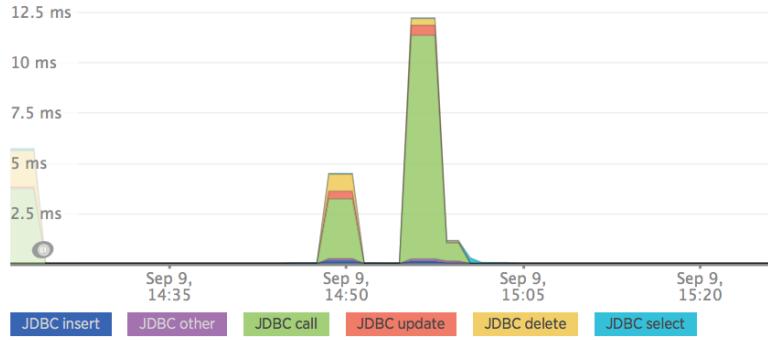
JDBC database_version call	0.0031 s
JDBC other	0.003 s
JDBC resourcepermission select	0.0019 s
JDBC country insert	0.0013 s
JDBC region insert	0.0011 s
JDBC classname_select	0.001 s
JDBC resourceaction select	0.001 s
JDBC system_tables select	0.0008 s
JDBC portlet select	0.0002 s
JDBC role_select	0.0002 s
JDBC user_select	0.0002 s
JDBC users_roles select	0.0002 s
JDBC assetentry select	0.0001 s
JDBC group_select	0.0001 s
JDBC image delete	0.0001 s
JDBC kaleotaskinstancetoken select	0.0001 s
JDBC layout select	0.0001 s

JDBC overview

Top database operations by time consumed



Database response time

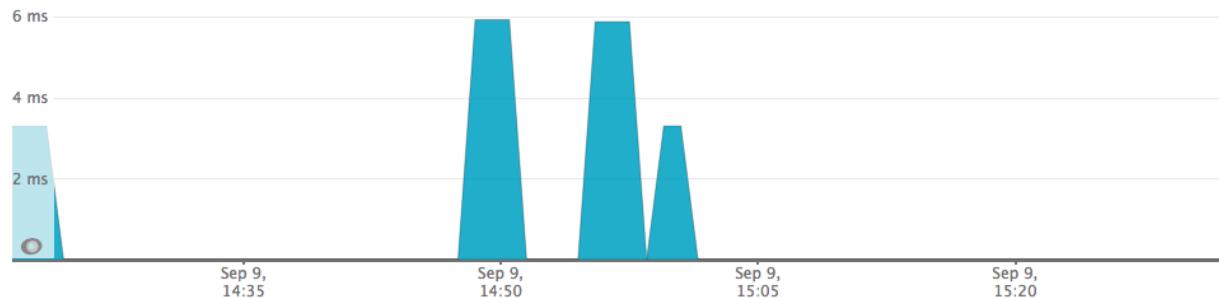


JDBC system_tables select

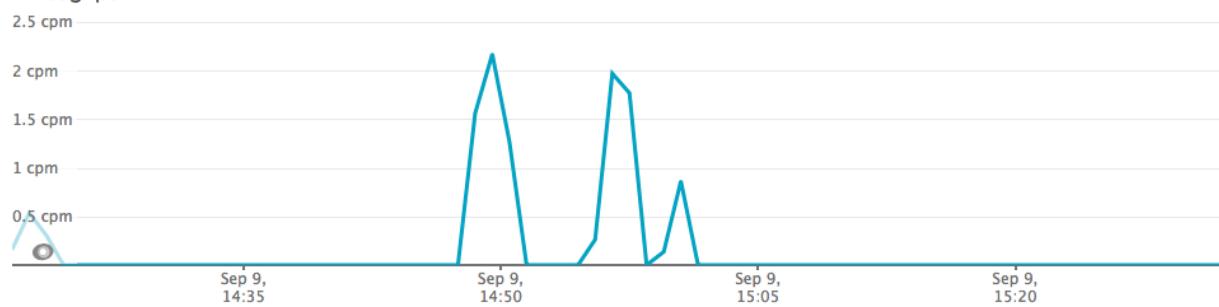


5.64 ms 0.141 cpm
RESP. TIME THROUGHPUT

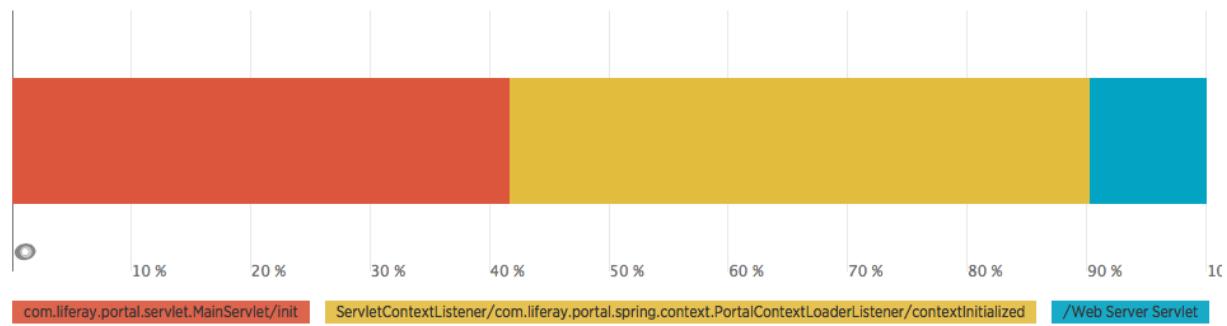
Response time



Throughput

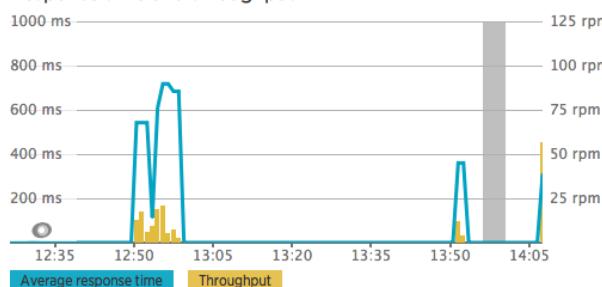
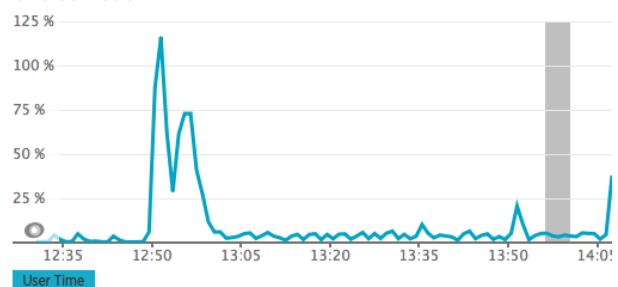
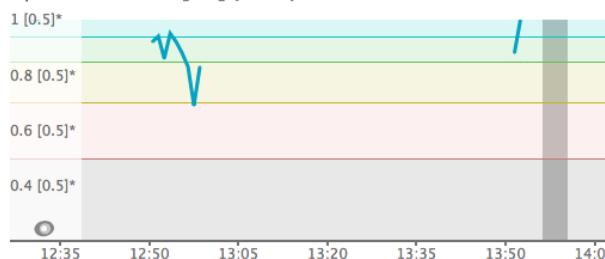
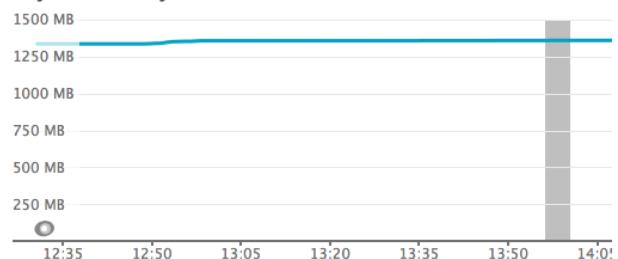
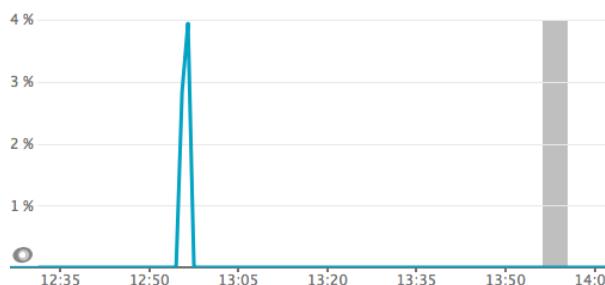
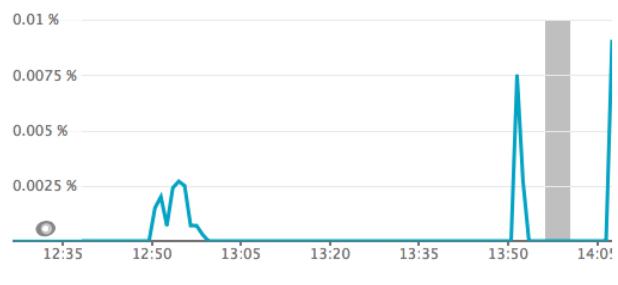


Time consumption by caller



Overview

Change log Change report

Response time and throughput**CPU utilization****Apdex score: 0.88 [0.5] (Good)****Physical memory utilization****Error rate****Database**

Account information

Name

Stunt Hamster ltd_2 

Subscription

Web Lite
Mobile Lite
Insights None
Browser Lite
Synthetics Lite

Billing CC Email

- 

License key

09ceca111dc7a9df6a96495a1115510a2ec24505

