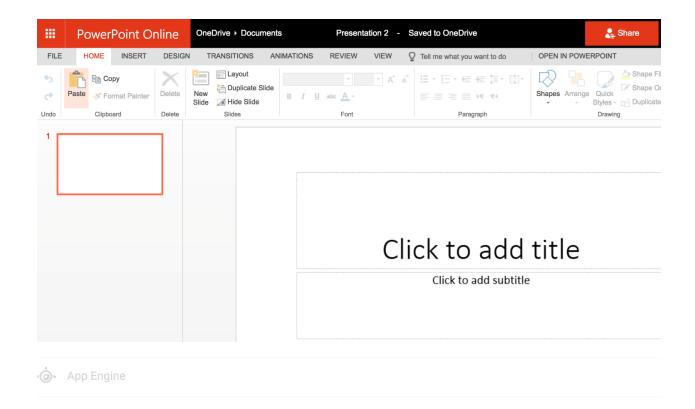
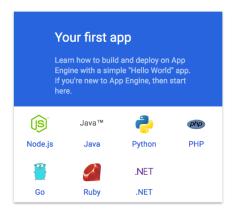
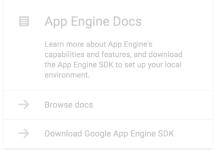
Chapter 1: The Fundamentals of Cloud Security



Welcome to App Engine

A powerful platform to build web and mobile apps that scale automatically learn more

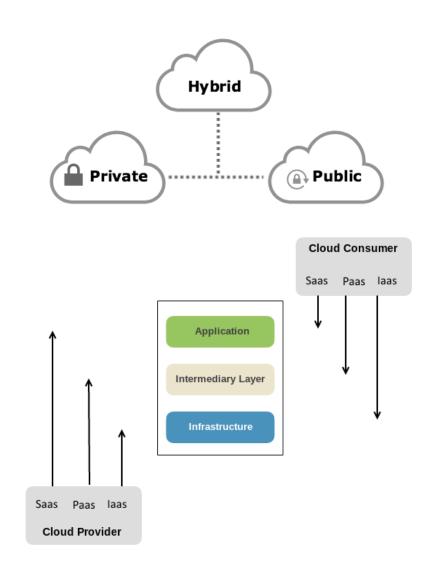


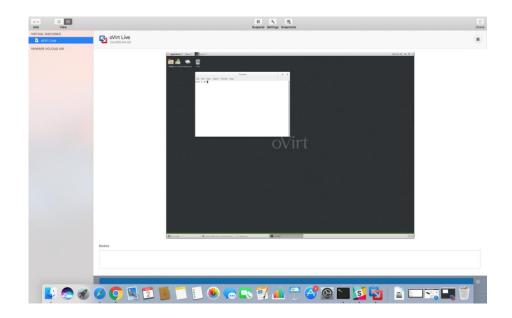


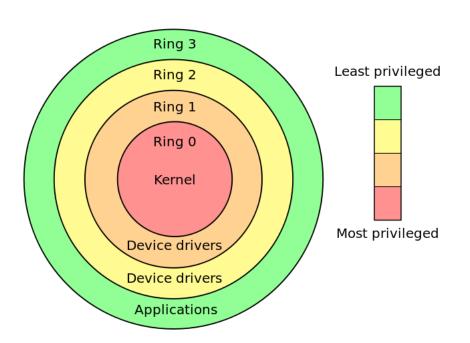
Droplets

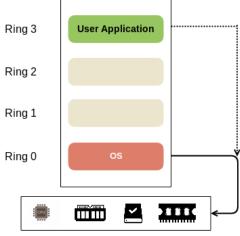
Droplets Volumes

Name	IP Address	Created -	Tags
mydreams 1 GB / 30 GB Disk / SGP1 - CentOS 7.2 x64	128.199.241.125	1 year ago	
mylife 1 GB / 20 GB Disk / SGP1 - CentOS 7.1 x64	128.199.106.4	2 years ago	

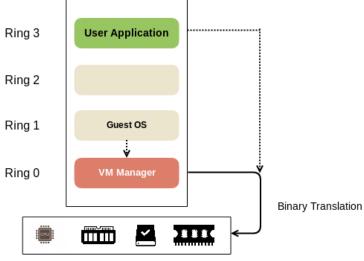




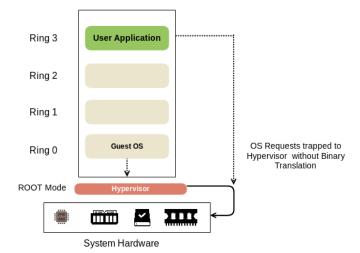


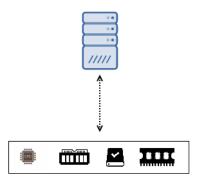


System Hardware

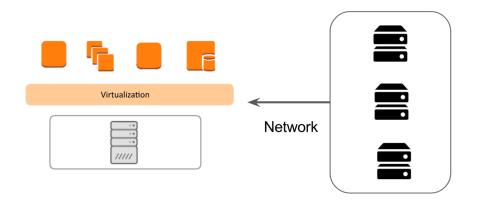


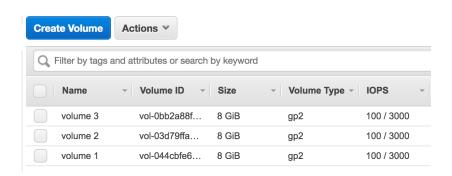
System Hardware

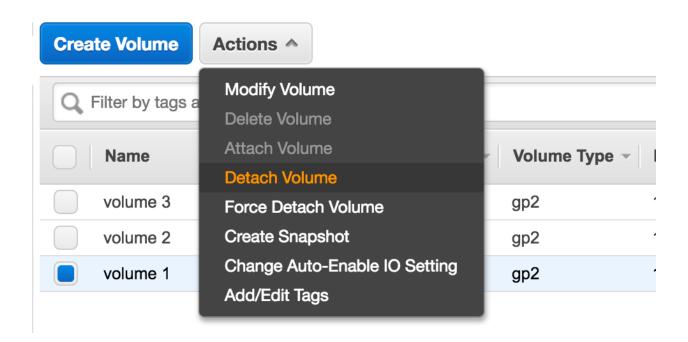


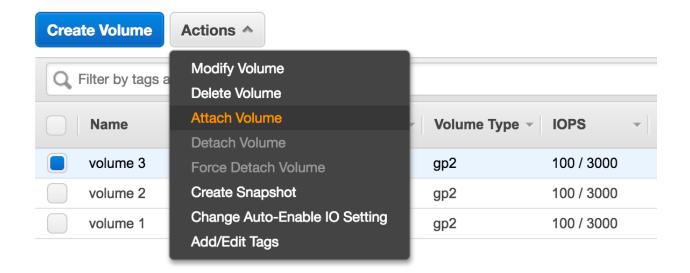


System Hardware









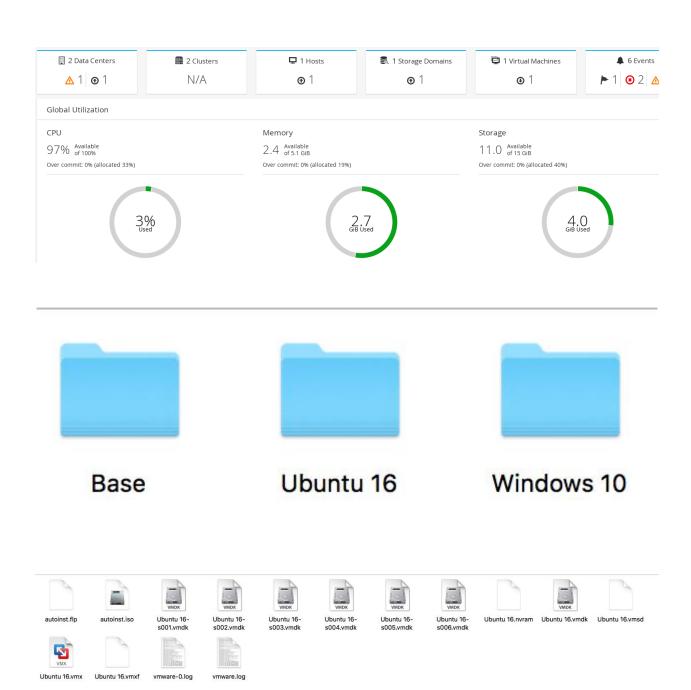
```
OVirt Node Hypervisor 3.0.1-1.0.2.el6

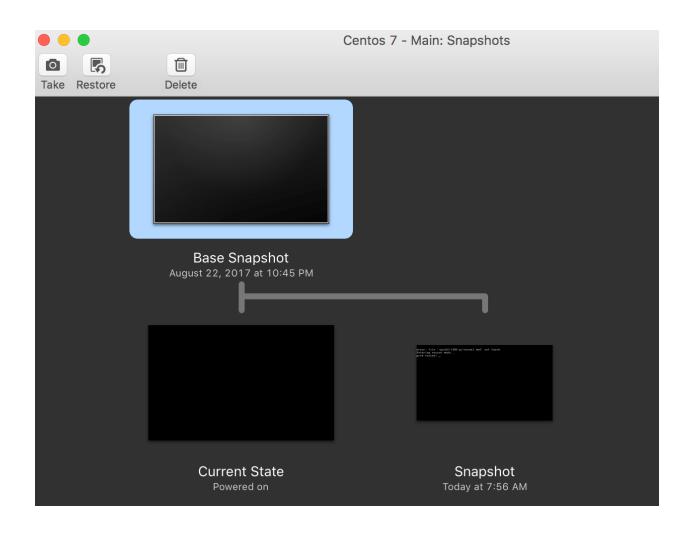
Installation
< Install Hypervisor 3.0.1-1.0.2.el6 >
Info: Virtualization hardware was detected and is enabled
< Quit >
```

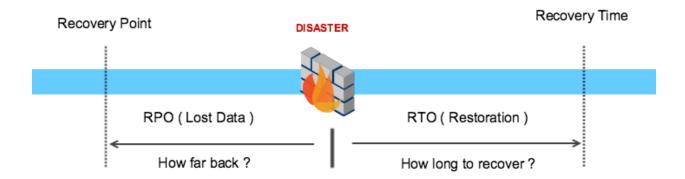
```
GNU GRUB version 0.97 (635K lower / 1046400K upper memory)

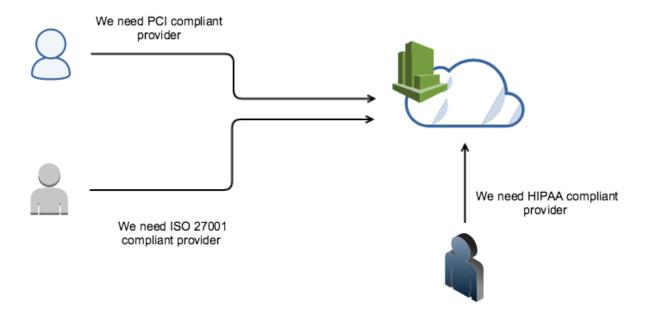
oUirt Node Hypervisor 3.0.1-1.0.2.el6

Use the ↑ and ↓ keys to select which entry is highlighted. Press enter to boot the selected OS, 'e' to edit the commands before booting, 'a' to modify the kernel arguments before booting, or 'c' for a command-line.
```







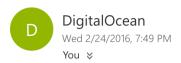


Requesting Authorization for Other Simulated Events

Please email us directly at aws-security-simulated-event@amazon.com. When communicating your event, please be sure to provide details on the event including:

- Dates
- Accounts involved
- Assets involved
- Contact information including phone number
- Detailed description of the planned events

[DigitalOcean] New Ticket # 950365 : Abuse Complaint



You forwarded this message on 2/25/2016 9:26 PM

Please review the following abuse complaint and provide us with a resolution:

[SpamCop V4.8.3]

This message is brief for your comfort. Please use links below for details.

Email from 128.199.72.9 / Wed, 24 Feb 2016 12:30:43 +0000 https://www.spamcop.net/w3m?i=z6415134688z955e7ca160140a68f337bf64ce44a10bz

[Offending message]

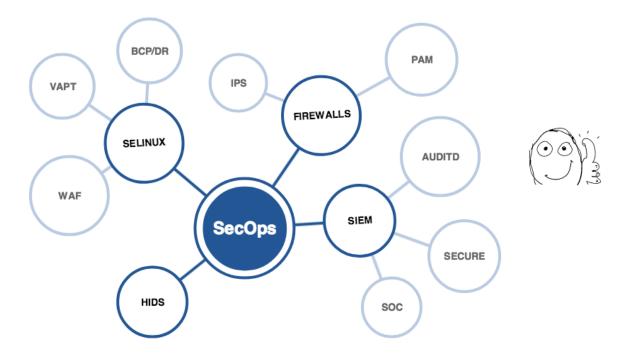
X-Apparently-To: x Wed, 24 Feb 2016 12:30:43 +0000

Return-Path:

X-YahooFilteredBulk: 128.199.72.9

		root@mydreams:/var/spool/postfix/maildrop 162x42						
36043117DA7	6257910D88	6F30A10CE58	8B8BC1CCD69	9840417D30F	A4EC918992C	B190017B042	BE60916ED8D	DAA4E359E6
360441A6193	6257A30951	6F30B1795E3	8B8BE16BAF6	984041C793	A4EC91BE009	B1907DCDB7	BE609172093	DAA4F1D769E
3604515EB55	6257B1A4570	6F3101D4BCB	8B8C016F73B	984061C38A6	A4ECB19DF57	B1908993AA	BE6093B38A	DAA50198037
3604723AEE	6257E197B1E	6F310236C7	8B8C4157BCA	984091ADFB1	A4ECC157A0	B1909FEFF	BE60B12A07	DAA501CE9F4
36048180BAE	6257F116E9E	6F311106937	8B8C533EB2	9840C114A49	A4ECC1650C5	B190A15F972	BE60DDF0E	DAA511A9A3A
3604917FC32	6257F165C43	6F31114A8F	8B8C5B8829	9840C1A2A3A	A4ECD1BBD87	B190A16D917	BE60F16636A	DAA5419E531
360493E5B9	625801BB1D1	6F3111C552D	8B8C7171959	9840D1246C	A4ECD9D0E4	B190AFE2C	BE6141987A	DAA5516266F
3604AFB98	62581171E46	6F3112DA48	8B8CE143D3	9840D1BD870	A4ED31C7145	B190B1ABE73	BE6151A4DE0	DAA561A863C
3604B105918	625811B38B8	6F31217D9F8	8B8D01202D	9840D1D06E1	A4ED326C1A	B190D233C2	BE61815ACEE	DAA57186FA1
3604B2B894	625822C914	6F314119C6	8B8D01B4FB8	9840E161FB5	A4ED626CBF	B190E3BB98	BE61917EA1B	DAA59DC2C
3604BD7D5	625831AE769	6F315163B8E	8B8D1114FE	9840E1738A8	A4ED810A0FF	B19101AE8B9	BE61A38189	DAA5ADD1B
3604F1581AE	625831D1D5C	6F3181AD966	8B8D3164AAD	9840E1BECD4	A4ED8181AB9	B19111084D	BE61B10E0A4	DAA5B1A6754
3604F1625AF	62583C53D	6F3182A068	8B8D41BD599	9840F1A75B	A4ED932BD9	B191110DA8D	BE61C1638CC	DAA5B1A9951
3604F1AF10	62584165540	6F3191CA8ED	8B8D5164B4E	984111A5E60	A4EDB16E245	B1913CC34	BE61C8EAA5	DAA5C18C036
360501C08BE	6258418E99A	6F31A176F9F	8B8D5198AAE	984131A9D6D	A4EDC1EDDB	B19141A4832	BE61E10CE16	DAA5C1CE1CC
360511138D9	625841CB170	6F31A186F38	8B8D536F90	9841424FDA	A4EDDFC711	B1916105499	BE61E1D4D69	DAA5F165F7D
36051166DB3	6258514E48	6F31BBA23D	8B8D610B0E	984143E164	A4EE01A123B	B191A1CED70	BE61F15D9EA	DAA612F8E2
360512BCE7	6258518B74D	6F31D1ADCCC	8B8D61B7C07	98415108474	A4EE01C800C	B191B1137CF	BE61FEEE1	DAA64180B91
3605219716D	6258610E27F	6F31D1D0D66	8B8D8167F69	9841515F4A5	A4EE2193E96	B191C197391	BE6201673E8	DAA641C4D2F
360523D681	625861B67FE	6F31E113BA5	8B8D91B11E1	9841517A585	A4EE41680FF	B191C1A7621	BE62311C08C	DAA642B6AE
360531156A7	625871A157A	6F31F2F38B	8B8DA1A3DF3	98416178374	A4EE41CCE3B	B191D1C8F25	BE6241162B3	DAA6611923
360531C783E	625881C2053	6F3241E26A	8B8DA3C478	98417118918	A4EE5186C69	B191F172B28	BE6241B9C91	DAA66171CED
3605415899B	62589173C7	6F32528307	8B8DC10F830	984171D4C9B	A4EE619A863	B192119663	BE6241CE430	DAA661C11F8
360561589CB	6258A16D259	6F326186D6C	8B8DC1984CD	98417323AC	A4EE716210C	B192419685B	BE62810C80B	DAA6716B488
36057182623	6258A1D5CFC	6F3271870A1	8B8DC31EA7	9841A1B107D	A4EE71CA107	B1928303AB	BE6291CBDC3	DAA671C2031
3605817FF28	6258C15EF21	6F3282C7D2	8B8DD25874	9841B176EC4	A4EE8195862	B1929328AF	BE62A1A2EA1	DAA68139939

Chapter 2: Defense in Depth Approach



Chapter 3: Designing Defensive Network Infrastructure

```
real@kplabs:-$ traceroute kplabs.in
traceroute to kplabs.in (139.162.21.95), 30 hops max, 60 byte packets
1 192.168.225.1 (192.168.225.1) 2.511 ms 2.823 ms 2.480 ms
2 ***
3 10.71.168.67 (10.71.168.67) 50.600 ms 10.71.168.66 (10.71.168.66) 50.585 ms 10.71.168.67 (10.71.168.67) 50.547 ms
4 172.26.8.11 (172.26.8.11) 48.965 ms 172.26.8.15 (172.26.8.15) 50.468 ms 172.26.8.11 (172.26.8.11) 49.247 ms
5 ***
6 ***
7 ***
8 ***
9 ***
10 103.198.140.164 (103.198.140.164) 71.255 ms 70.220 ms 77.678 ms
11 103.198.140.27 (103.198.140.27) 192.096 ms 171.445 ms 171.375 ms
12 30gigabitethernet1-3.core1.ams1.he.net (80.249.209.150) 205.580 ms 205.542 ms 205.481 ms
13 100ge9-1.core1.lon2.he.net (72.52.92.13) 191.973 ms 205.462 ms 205.429 ms
14 100ge44-2.core1.sjc2.he.net (72.52.92.166) 279.981 ms 273.536 ms 266.778 ms
15 100ge44-2.core1.sjc2.he.net (184.105.81.213) 325.892 ms 300.578 ms 314.615 ms
16 pacnet.10gigabitethernet2-2.core1.sjc2.he.net (216.218.192.234) 343.293 ms 344.995 ms 336.785 ms
17 te0-4-0-1.wr2.sin0.10026.telstraglobal.net (61.14.158.104) 526.670 ms 526.213 ms 513.440 ms
18 xe0-2-0.gwl.sin2.pacnet.net (202.147.52.66) 513.332 ms 504.273 ms 508.712 ms
19 gw2.sin1.sg.linode.com (61.14.147.179) 307.733 ms 289.823 ms gw1.sin1.sg.linode.com (61.14.147.177) 301.655 ms
10 139.162.0.10 (139.162.0.10) 287.180 ms 139.162.0.14 (139.162.0.14) 294.581 ms 139.162.0.10 (139.162.0.10) 309.005 ms
11 li863-95.members.linode.com (139.162.21.95) 282.558 ms 308.017 ms 288.445 ms
```

Application Layer

Transport Layer

Internet Protocol Layer

Network Transport Layer

▶Ethernet II, Src: a8:a7:95:0a:00:ld (a8:a7:95:0a:00:ld), Dst: 4a:la:48:32:68:68 (4a:la:48:32:68:68)
▶Internet Protocol Version 4, Src: 192.168.225.238 (192.168.225.238), Dst: 139.162.21.95 (139.162.21.95)
▶Transmission Control Protocol, Src Port: 52477 (52477), Dst Port: http (80), Seq: 1, Ack: 1, Len: 371
▶Hypertext Transfer Protocol

▼Ethernet II, Src: a8:a7:95:0a:00:1d (a8:a7:95:0a:00:1d), Dst: 4a:1a:48:32:68:68 (4a:1a:48:32:68:68)

▶Destination: 4a:1a:48:32:68:68 (4a:1a:48:32:68:68)
▶Source: a8:a7:95:0a:00:1d (a8:a7:95:0a:00:1d)

Type: IP (0x0800)

```
vInternet Protocol Version 4, Src: 192.168.225.238 (192.168.225.238), Dst: 139.162.21.95 (139.162.21.95)

Version: 4
Header length: 20 bytes

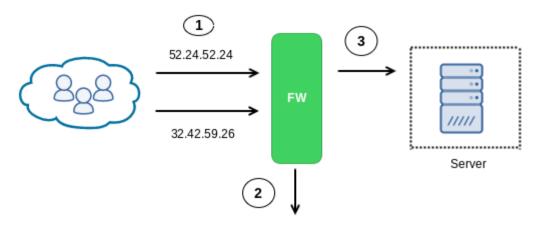
Differentiated Services Field: 0x00 (DSCP 0x00: Default; ECN: 0x00: Not-ECT (Not ECN-Capable Transport))
Total Length: 423
Identification: 0x5f22 (24354)

Flags: 0x02 (Don't Fragment)
Fragment offset: 0
Time to live: 64
Protocol: TCP (6)

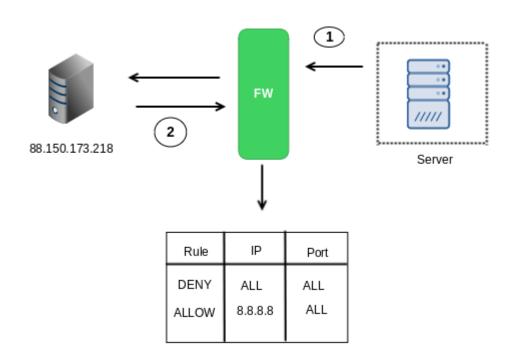
Header checksum: 0x9696 [validation disabled]
Source: 192.168.225.238 (192.168.225.238)
Destination: 139.162.21.95 (139.162.21.95)
[Source GeoIP: Unknown]
[Destination GeoIP: Unknown]
```

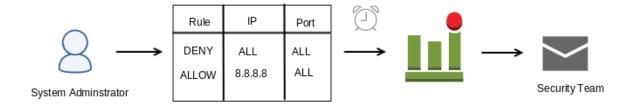
```
Transmission Control Protocol, Src Port: 52477 (52477), Dst Port: http (80), Seq: 1, Ack: 1, Len: 371
 Source port: 52477 (52477)
 Destination port: http (80)
 [Stream index: 20]
 Sequence number: 1
                     (relative sequence number)
 [Next sequence number: 372 (relative sequence number)]
 Acknowledgment number: 1 (relative ack number)
 Header length: 32 bytes
▶Flags: 0x018 (PSH, ACK)
 Window size value: 229
 [Calculated window size: 29312]
 [Window size scaling factor: 128]
▶Checksum: 0xe85f [validation disabled]
▶Options: (12 bytes), No-Operation (NOP), No-Operation (NOP), Timestamps
▶[SEQ/ACK analysis]
```

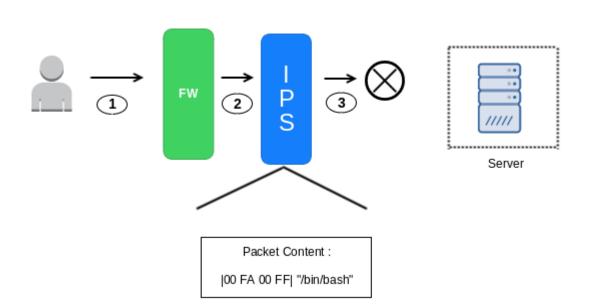
```
▼Hypertext Transfer Protocol
▼GET / HTTP/1.1\r\n
Host: kplabs.in\r\n
Connection: keep-alive\r\n
Upgrade-Insecure-Requests: 1\r\n
User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/57.0.2987.133 Safari/537.36\r\n
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8\r\n
DNT: 1\r\n
Accept-Encoding: gzip, deflate, sdch\r\n
Accept-Language: en-US,en;q=0.8\r\n
\r\n
[Full request URI: http://kplabs.in/]
[HTTP request 1/2]
```

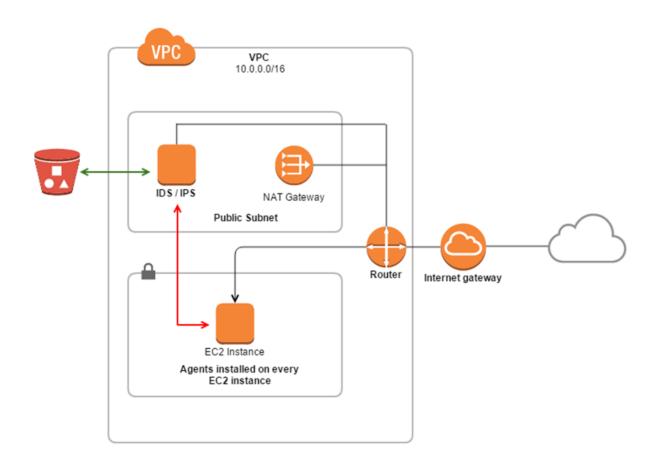


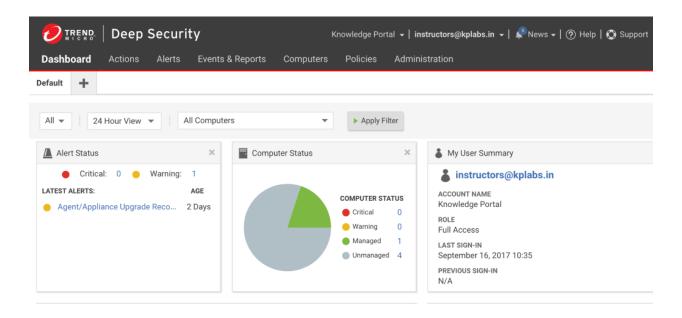
Rule	IP	Port
Allow	52.24.52.24	ALL
Deny	32.42.59.26	ALL
Allow	17.24.53.32	80

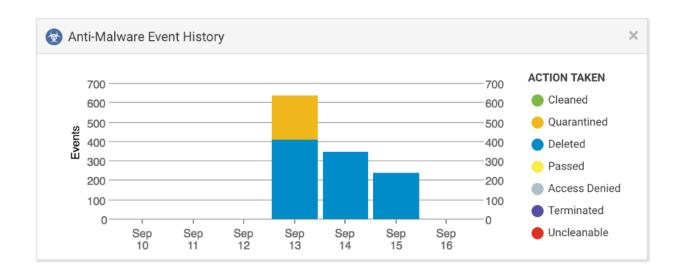












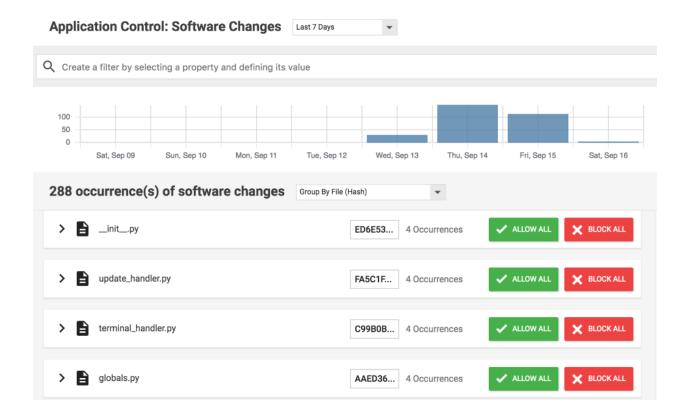
[root@test ~]# cat test.sh
#!/bin/bash
echo hi
echo hey

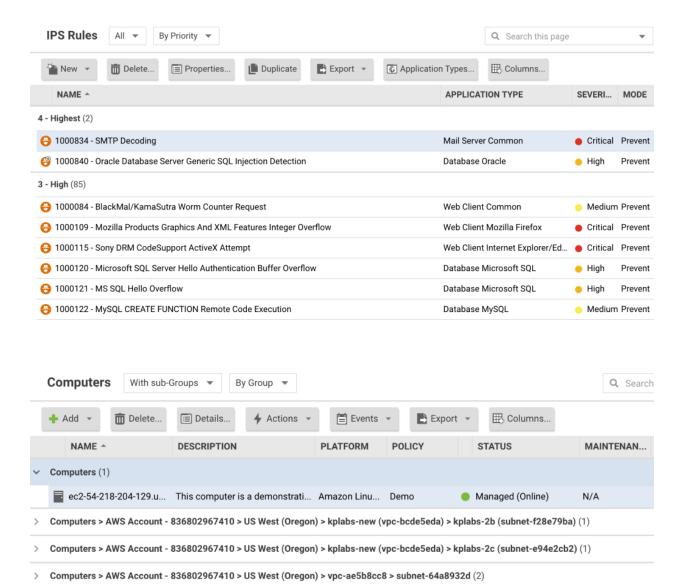
[root@test ~]# sh test.sh
hi
hey

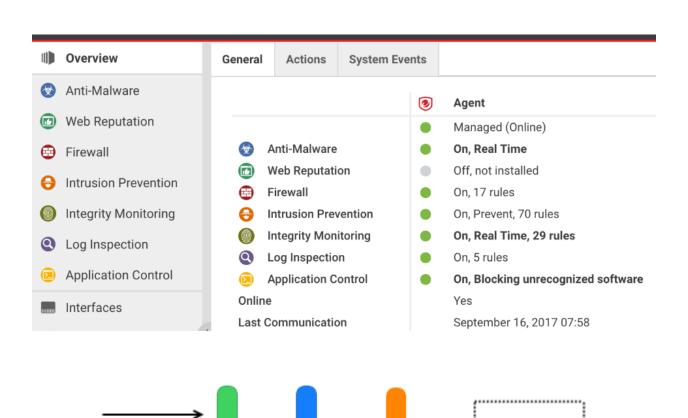
[root@test ~]# cat test.sh
#!/bin/bash
echo hi
echo hey.

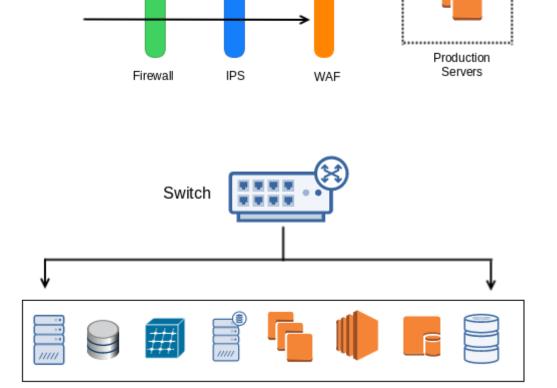
[root@test ~]# sh test.sh
sh: test.sh: Operation not permitted

[[root@test ~]# service httpd start
env: /etc/init.d/httpd: Operation not permitted

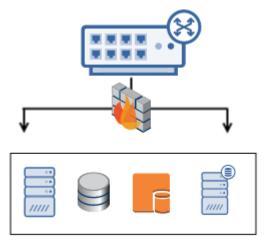




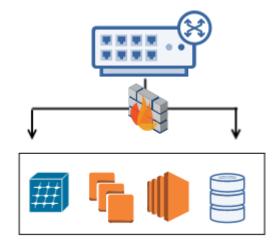




Single FLAT network

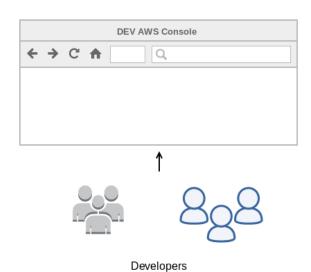


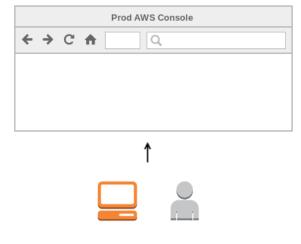
Segment 1 - DEV



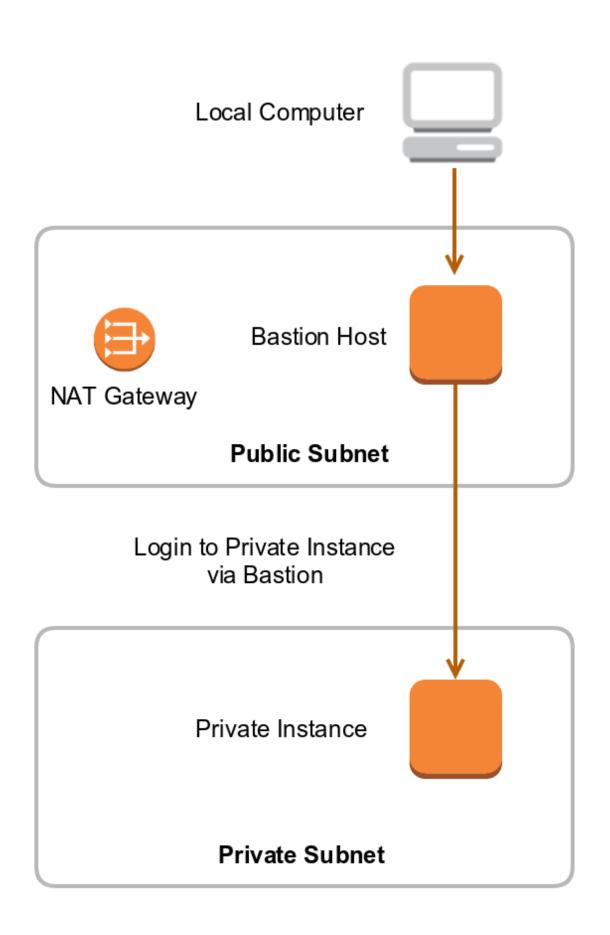
Segment 2 - PROD

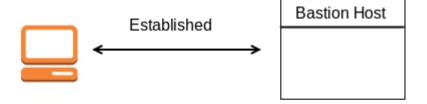


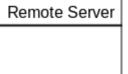


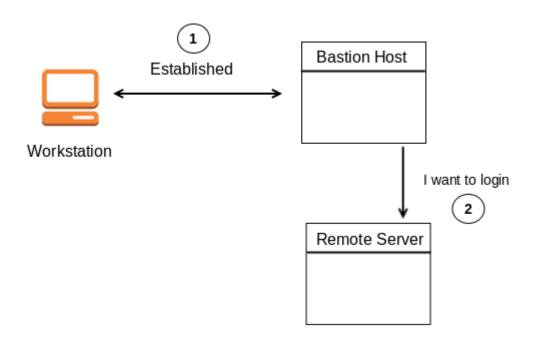


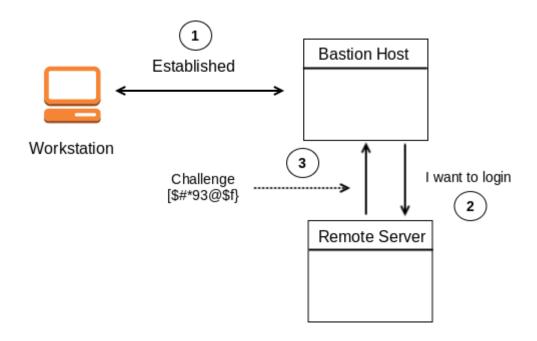
Solutions Architects

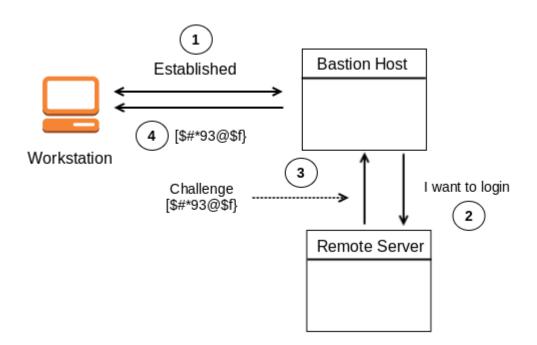


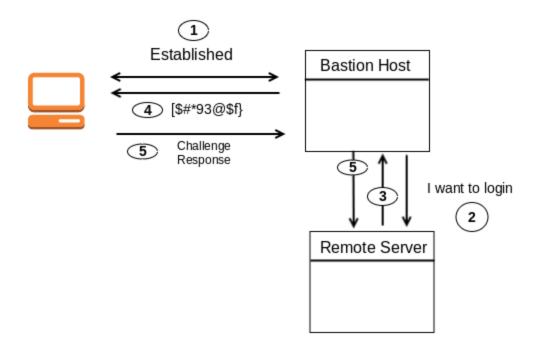


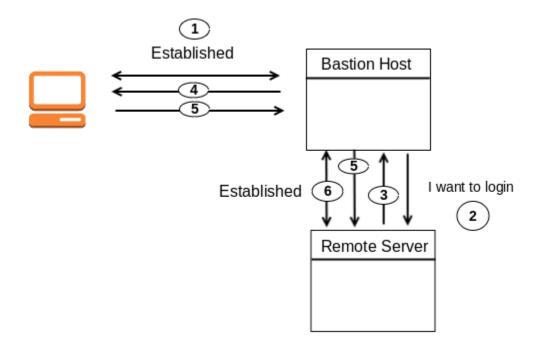












Droplets

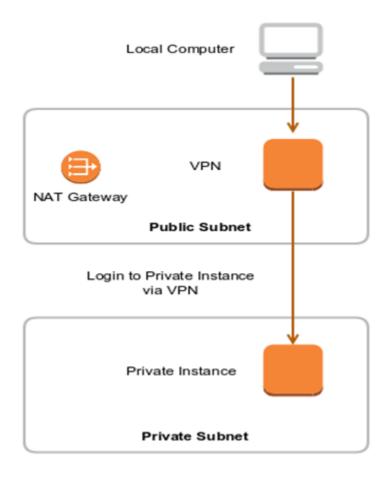
Search by Dro

Droplets Volumes

Name	IP Address	Created A
mydreams 1 GB / 30 GB Disk / SGP1 - CentOS 7.2 x64	128.199.241.125	9 months ago
mylife 1 GB / 20 GB Disk / SGP1 - CentOS 7.1 x64	128.199.106.4	2 years ago

```
root@kplabs:~# ssh-add -l
2048 37:79:34:1c:3b:1e:b0:9d:3f:65:81:dc:8a:f8:15:ba /root/.ssh/id rsa (RSA)
[root@kplabs ~]# ssh -A root@128.199.241.125 -p 6889
Last login: Thu Jul 20 17:54:47 2017 from li1473-216.members.linode.com
[root@backend ~]# 

[root@backend ~]# ssh-add -l
2048 37:79:34:1c:3b:1e:b0:9d:3f:65:81:dc:8a:f8:15:ba /root/.ssh/id_rsa (RSA)
[root@backend ~]# ssh 128.199.106.4 -p 6889
Last login: Thu Jul 20 13:36:41 2017 from 128.199.241.125
[root@mylife ~]#
```



[root@vpn ~]# yum install http://swupdate.openvpn.org/as/openvpn-as-2.1.9-CentOS6.x86_64.rpm Loaded plugins: priorities, update-motd, upgrade-helper openvpn-as-2.1.9-CentOS6.x86_64.rpm Examining /var/tmp/yum-root-Pv0Cy8/openvpn-as-2.1.9-Cent0S6.x86_64.rpm: openvpn-as-2.1.9-Cent0S6.9.x86_64 Marking $\sqrt{\text{var/tmp/yum-root-Pv0Cy8/openvpn-as-2.1.9-Cent0S6.x86_64}$.rpm to be installed Resolving Dependencies --> Running transaction check
---> Package openvpn-as.x86_64 0:2.1.9-CentOS6.9 will be installed
--> Finished Dependency Resolution Dependencies Resolved Package Installing: x86_64 2.1.9-CentOS6.9 openvpn-as Transaction Summary Install 1 Package Total size: 72 M Installed size: 72 M Is this ok [y/d/N]: ■

Access Server web UIs are available here:
Admin UI: https://172.31.30.134:943/admin
Client UI: https://172.31.30.134:943/
 Verifying : openvpn-as-2.1.9-CentOS6.9.x86_64

Installed:
 openvpn-as.x86_64 0:2.1.9-CentOS6.9

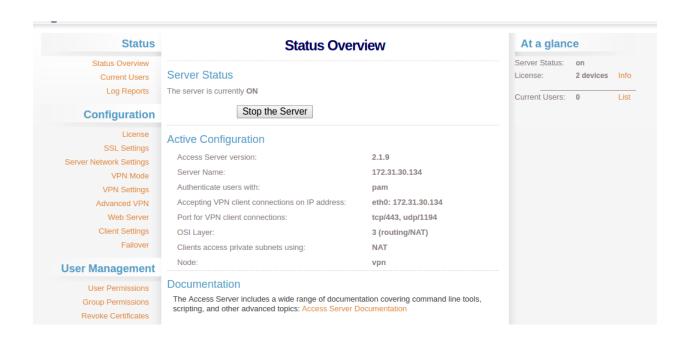
Complete!

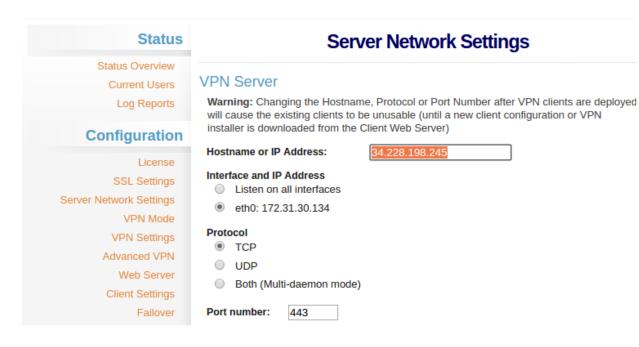
[root@vpn ~]# passwd openvpn
Changing password for user openvpn.
New password:
Retype new password:
passwd: all authentication tokens updated successfully.



OpenVPN Technologies, Inc.









To download the OpenVPN Connect app, please choose a platform below:

- OpenVPN Connect for Windows
- OpenVPN Connect for Mac OS X
- OpenVPN Connect for Android
- OpenVPN Connect for iOS
- OpenVPN for Linux

Connection profiles can be downloaded for:

Yourself (user-locked profile)

```
zeal@kplabs:~/Documents$ sudo openvpn --config kplabs.ovpn
Fri Jul 21 21:59:36 2017 OpenVPN 2.3.2 x86 64-pc-linux-gnu [SSL (OpenSSL)] [LZO] [EPOLL] [PKCS11]
Enter Auth Username:openvpn
Enter Auth Password:
Fri Jul 21 21:59:43 2017 Control Channel Authentication: tls-auth using INLINE static key file
Fri Jul 21 21:59:43 2017 Outgoing Control Channel Authentication: Using 160 bit message hash 'SHA1
Fri Jul 21 21:59:43 2017 Incoming Control Channel Authentication: Using 160 bit message hash 'SHA1
Fri Jul 21 21:59:43 2017 Socket Buffers: R=[87380->200000] S=[16384->200000]
Fri Jul 21 21:59:43 2017 Attempting to establish TCP connection with [AF_INET]34.228.198.245:443 [
Fri Jul 21 21:59:44 2017 TCP connection established with [AF_INET]34.228.198.245:443
Fri Jul 21 21:59:44 2017 TCPv4_CLIENT link local: [undef]
Fri Jul 21 21:59:44 2017 TCPv4_CLIENT link remote: [AF_INET]34.228.198.245:443
Fri Jul 21 21:59:45 2017 TLS: Īnitial packet from [AF ĪNET]34.228.198.245:443, sid=0f430297 64952c
Fri Jul 21 21:59:45 2017 WARNING: this configuration may cache passwords in memory -- use the auth
Fri Jul 21 21:59:46 2017 VERIFY OK: depth=1, CN=OpenVPN CA
Fri Jul 21 21:59:46 2017 VERIFY OK: nsCertType=SERVER
Fri Jul 21 21:59:46 2017 VERIFY OK: depth=0, CN=OpenVPN Server
```

```
zeal@kplabs:~/Documents$ telnet 172.31.20.189 22
Trying 172.31.20.189...
Connected to 172.31.20.189.
Escape character is '^]'.
SSH-2.0-OpenSSH_6.6.1
```

Bac	ck to Hosted Zones Cre	ate Rec	ord Set Import Zone File Delete Re	cord Set		
Q Record Set Name X Any Type V Aliases Only Weighted Only						
	Name	Туре	Value	Evaluate		
	internal.kplabs.in.	NS	ns-1337.awsdns-39.org. ns-250.awsdns-31.com. ns-1777.awsdns-30.co.uk. ns-777.awsdns-33.net.	-		
	internal.kplabs.in.	SOA	ns-1337.awsdns-39.org. awsdns-hostmaster.amazoi	-		
	admin.internal.kplabs.in.	Α	10.0.10.20	-		
	elk.internal.kplabs.in.	Α	10.0.5.20	-		
	ipa.internal.kplabs.in.	Α	10.0.50.25	-		
	mongodb.internal.kplabs.in.	Α	10.0.5.35	-		
	phpmyadmin.internal.kplabs.in.	Α	10.0.5.10	-		

[root@kplabs ~]# nslookup elk.internal.kplabs.in

Server: 139.162.11.5 Address: 139.162.11.5#53

Non-authoritative answer:

Name: elk.internal.kplabs.in

Address: 10.0.5.20

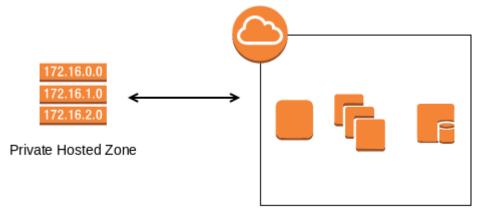
[root@kplabs ~]# nslookup phpmyadmin.internal.kplabs.in

Server: 139.162.11.5 Address: 139.162.11.5#53

Non-authoritative answer:

Name: phpmyadmin.internal.kplabs.in

Address: 10.0.5.10



Virtual Private Cloud

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: internal.kplabs.in

Comment: Private Hosted Zone

Type: Private Hosted Zone for Amazon VPC v

A private hosted zone determines how traffic is routed within an Amazon VPC. Your resources are not accessible outside the VPC. You can use any domain name.

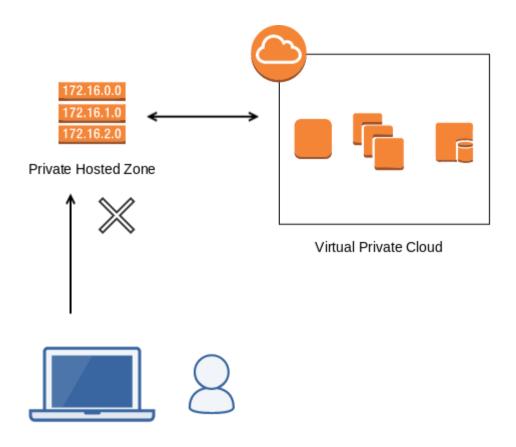
VPC ID: vpc-ecb8e885 | ap-south-1

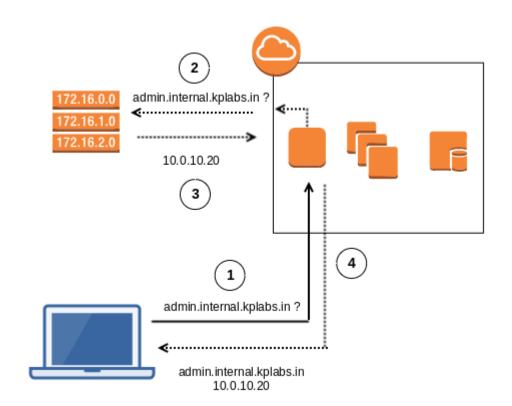
Important

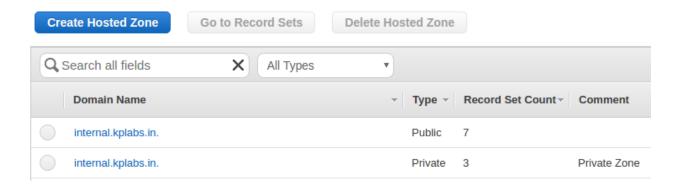
To use private hosted zones, you must set the following Amazon VPC settings to true:

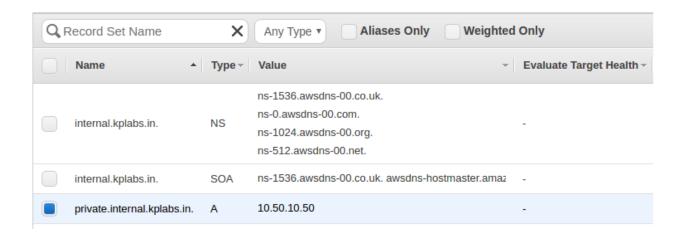
- enableDnsHostnames
- enableDnsSupport

Learn more









[root@ip-172-31-20-189 ~]# nslookup private.internal.kplabs.in

Server: 172.31.0.2 Address: 172.31.0.2#53

Non-authoritative answer:

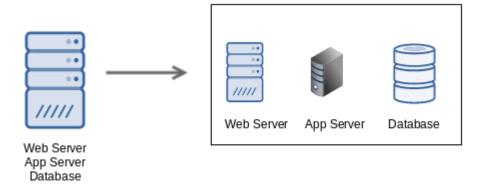
Name: private.internal.kplabs.in

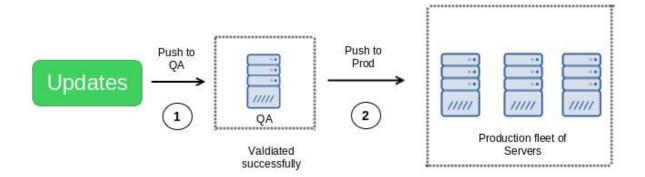
Address: 10.50.10.50

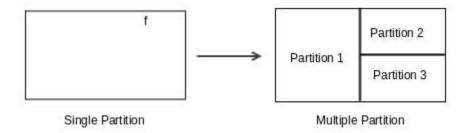
<pre>zeal@kplabs:~/Documents\$ nslo ;; connection timed out; no s</pre>	ookup private.internal.kplabs.in 172.31.0.2 servers could be reached	
zeal@kplabs:~/Documents\$ nsl Server: 172.31.0.2 Address: 172.31.0.2#5	ookup private.internal.kplabs.in 172.31.0.2	
Non-authoritative answer: Name: private.internal.kpl Address: 10.50.10.50	abs.in	
DNS Settings		
Pushing DNS servers to clients is optional, unless clients' Internet traffic is to be routed through the VPN		
Do not alter clients' DNS server settings		
 Have clients use the same Di 	NS servers as the	
Access Server host		
Have clients use these DNS:	servers:	
DNS resolution zones (opt	ional)	
separated list of internal domains the	rate traffic (not internet traffic), specify a comma- nat clients will resolve through the AS-pushed DNS uch as Windows) may only respect the first domain	
DNS zones:		
Default Domain Suffix (opt	ional)	
•	able Windows clients to resolve host names to FQDN our organisation uses a Windows Domain or Active an be defined here.	
Default domain suffix:		

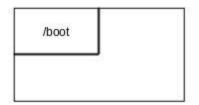
Save Settings

Chapter 4: Server Hardening



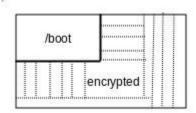


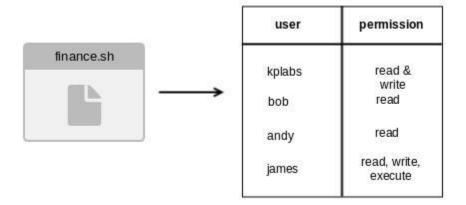


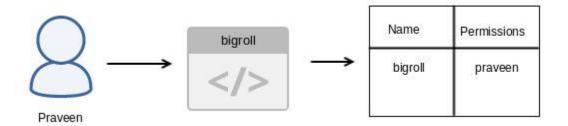


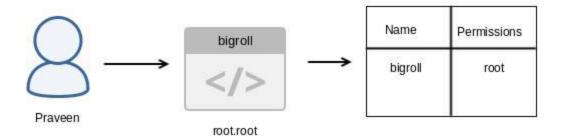
/boot	
/tmp	

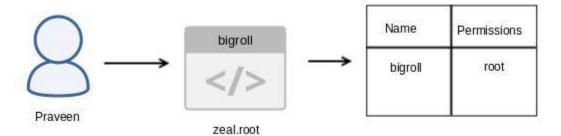
/boot	/home
/tmp	I

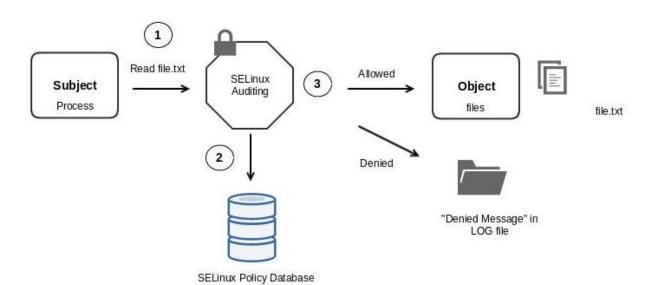


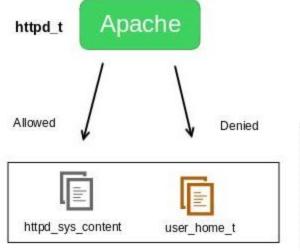


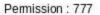


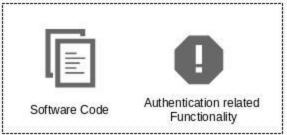




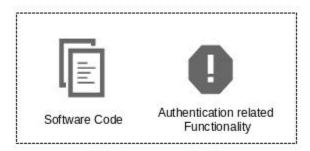




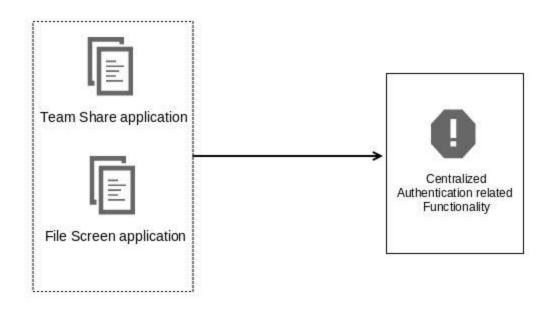


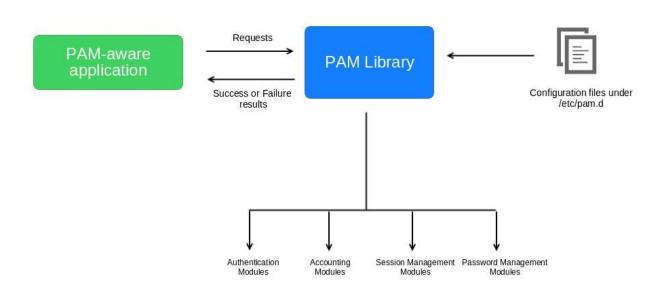


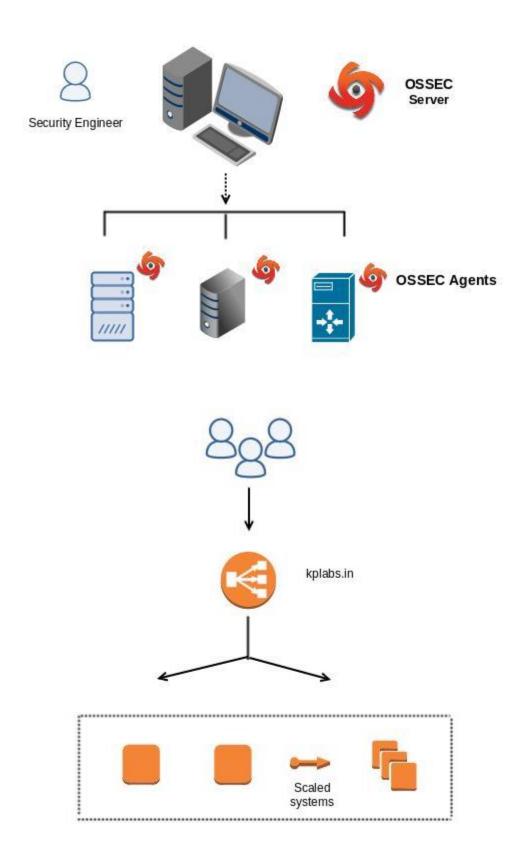
Team Screen application



File Screen application







Patch Management

Central Log Management

HIDS

Server Hardening

Partitioning

Hardened Image

Chapter 5: Cryptography Network Security

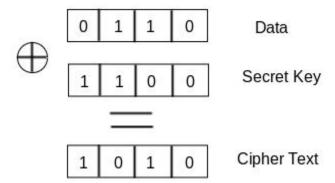
Important Notification " MY GMAIL ACCOUNT IS HACKED "

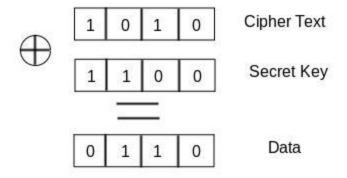
Please don't communicate or send any information to the email asking for money from my account as its been hacked and the reply is going to some other account".

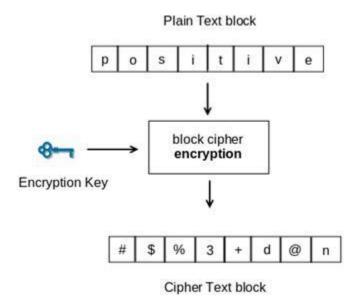
Sorry for the Inconvenience cause.

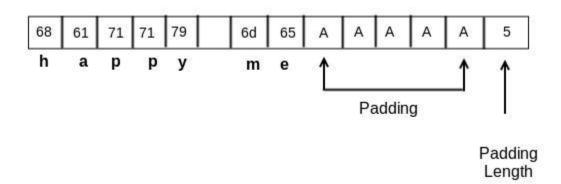
Regards

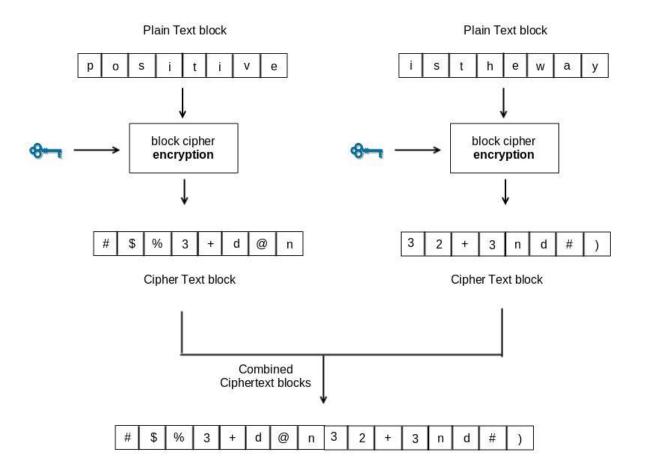


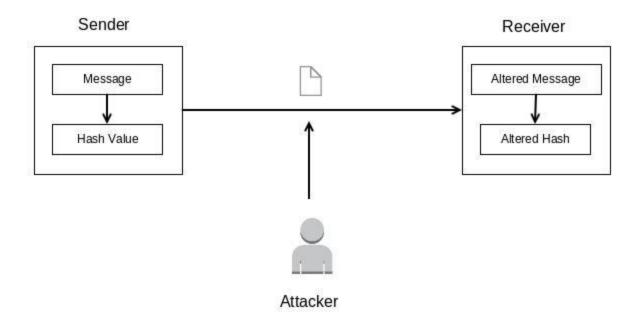


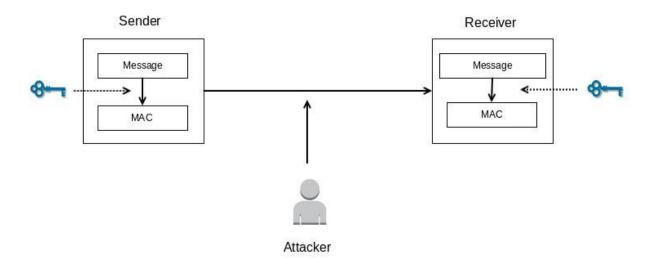


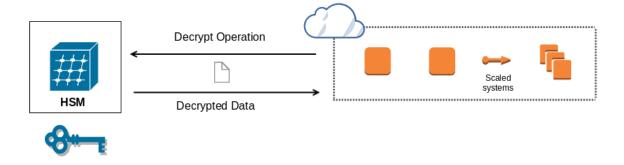


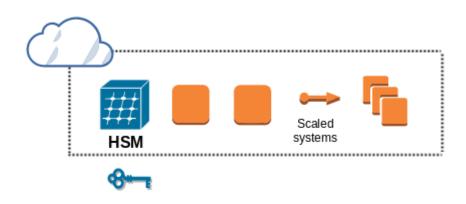


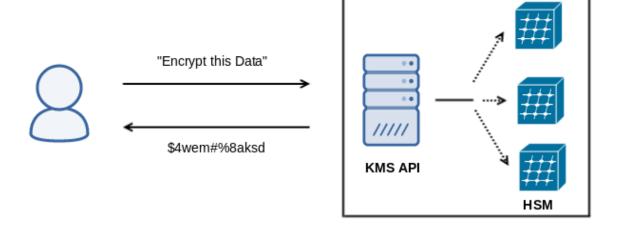


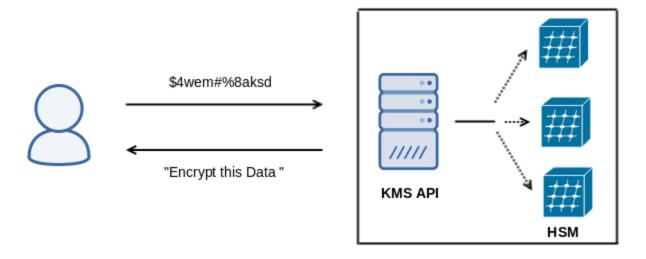


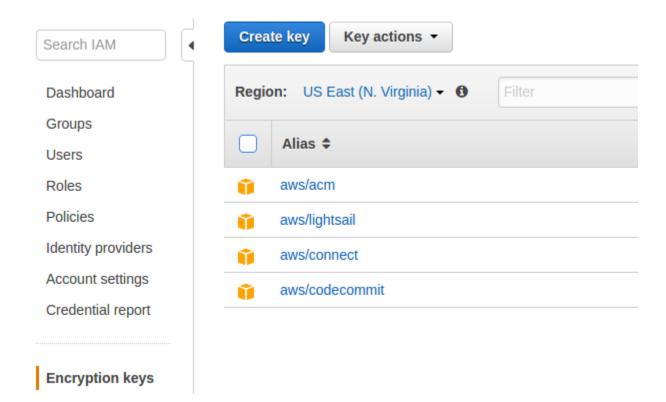












Create Alias and Description

Provide an alias and a descrip	otion for this key. These properties	of the key can be changed later. Learn more.
Alias (required)	kplabs	
Description	This KPLABS KMS Key	
▼ Advanced Options		
Key Material Origin	KMS	

Define Key Administrative Permissions

Help me choose

Key Administrators

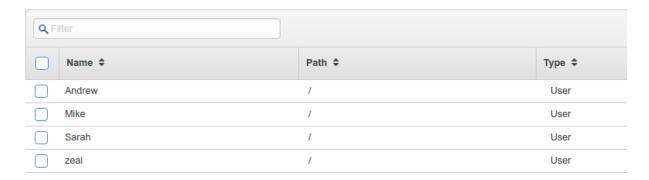
Choose the IAM users and roles that can administer this key through the KMS API. You may need to add additional permissions for the users of from this console. Learn more.



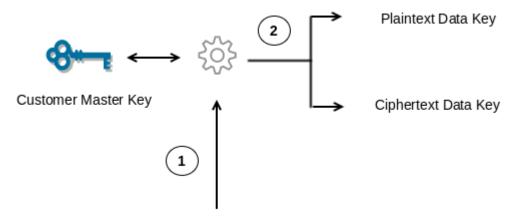
Define Key Usage Permissions

▼ This Account

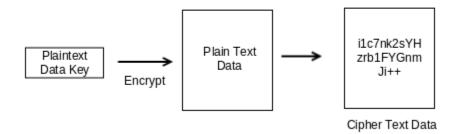
Choose the IAM users and roles that can use this key to encrypt and decrypt data from within applications and when using AWS services int

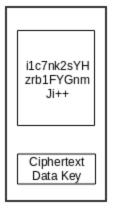






generate data key operation





Storage

[root@kplabs ~]# aws kms generate-data-key --key-id_arn:aws:kms:us-east-1:836802967410:key/85155cf0-f872-4cf8-bb0e-de9ab3e7ef18_--key-spec AES_256 {
 "Plaintext": "0q7F01HD4SQyhH0wb2CG2LZ+qx9EjVa6cEb/smbY6rE=",
 "KeyId": "arn:aws:kms:us-east-1:836802967410:key/85155cf0-f872-4cf8-bb0e-de9ab3e7ef18",
 "CiphertextBlob": "AQIDAHgB2Tr2Uqdjilc7nk2sYHzrb1FYGnmJiNm7HCpeELEcWQFU7U5VoJd8ecLN99R2My0HAAAAfjB8BgkqhkiG9w0BBwagbzBtAgEAMGgGCSqGSIb3DQEHATAcgEQgDvdqHS4zzukuMPrLbe6nUvy0Lp+GnOnBUc48qKFRTESrKwjkHfdgClkuB5/IqPBY1ffQakLTBHtLZYZxg=="

[root@kplabs ~]# credstash setup Creating table... Waiting for table to be created... Table has been created. Go read the README about how to create your KMS key



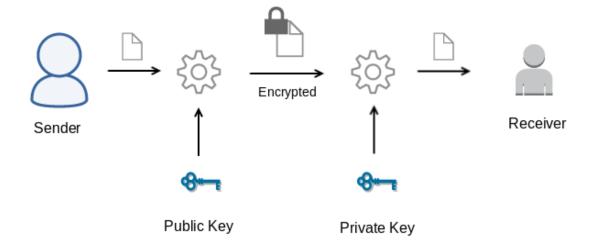
[root@kplabs ~]# credstash put db1.prod THPORT0098#
db1.prod has been stored

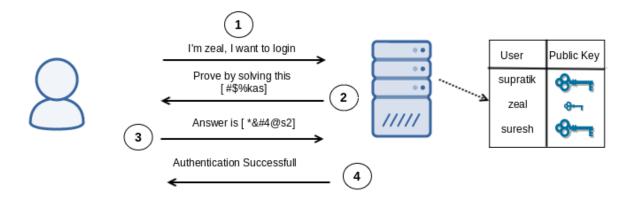
Tree ▼	
•	Item {6}
0	<pre>contents String:sLngFYANVwD41ck=</pre>
0	digest String: SHA256
0	hmac String: fd4edb378c9c4a1a4547483773e10de7e702284879f84320003971e526915fa0
0	key String: AQIBAHi3Rw5PxvqDxB4KOSz1mubW4RWjYEz6vjcMfoR7Km9DlQEDGtY4VO/AlWKddCj93J3eAAAAojCBnwYJKoZIhvcNAQcGoIGRMIGOAgEAMIGIBgkqhkiG9w0BbwEwHg EIBb2sjQFopwOvHaKyy5fLJYK+Eok7pxJ9TSuDFBdZN29chUt8/iFOdO1kWinaUH88f8qowi5m9/D1+qxGd1Js4Nlw8N9Uie2NCgF1NT6z4nL2AchHj72H5/EVvYbA==
0	name String: db1.prod
0	version String: 000000000000000000000000000000000000

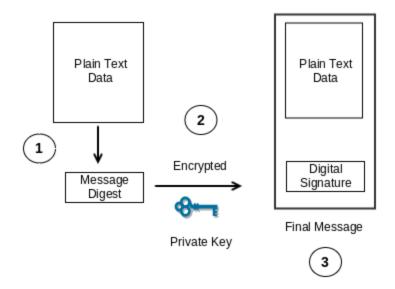
[root@kplabs ~]# credstash get db1.prod THPORT0098#

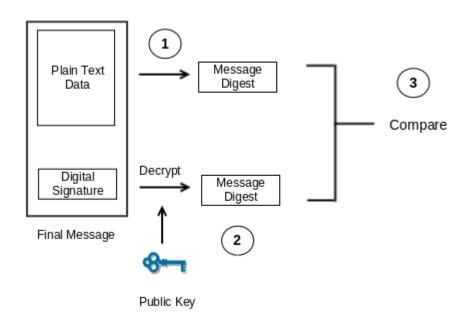
Single Key	ALL THE SENSITIVE ENCRYPTED DATA IS HERE
------------	--

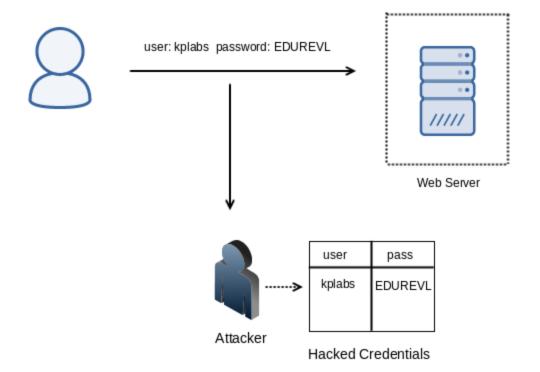
Key 1	1st PARTIAL SET OF DATA
Kov 2	2nd PARTIAL SET
Key 2	OF DATA
Key 3	3rd PARTIAL SET OF DATA

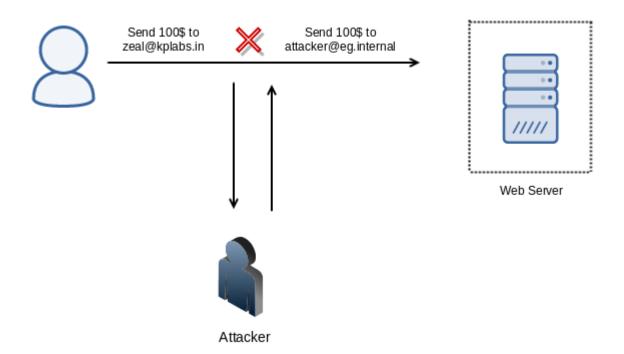












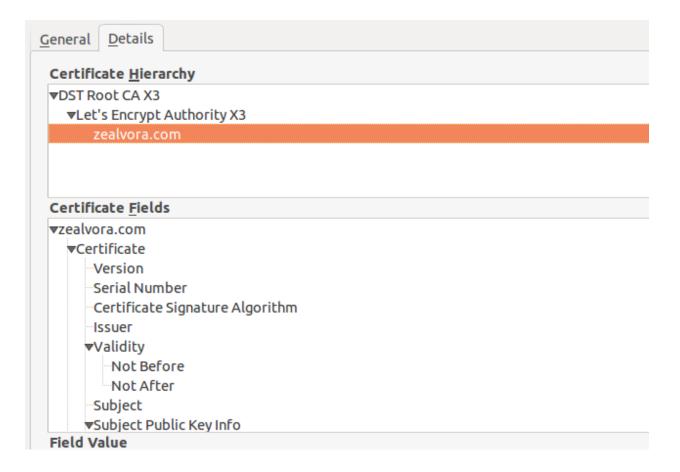
```
175 11.609372192.168.225.238 139.162.21.95
                                                                          74 49583 > https [SYN] Seq=0 Win=29200 Len=0 MSS=1460 SACK_PERM=1 TSval=4767003 TSecr=0

    188 11.91046; 139.162.21.95
    192.168.225.238
    TCP

    189 11.91055; 192.168.225.238
    139.162.21.95
    TCP

    190 11.91215; 192.168.225.238
    139.162.21.95
    TLSV:

                                                                         74 https > 49583 [SYN, ACK] Seq=0 Ack=1 Win=28960 Len=0 MS5=1370 SACK PERM=1 TSval=40992 66 49583 > https [ACK] Seq=1 Ack=1 Win=29312 Len=0 TSval=4767078 TSecr=4099235191
                                                                         360 Client Hello
225 12.23171:139.162.21.95 192.168.225.238 TCP 226 12.24975/139.162.21.95 192.168.225.238 TLSv1.2
                                                                          66 https > 49583 [ACK] Seq=1 Ack=295 Win=30080 Len=0 TSval=4099235284 TSecr=4767079
                                                                       1424 Server Hello
227 12.24978]192.168.225.238 139.162.21.95 TCP
                                                                         66 49583 > https [ACK] Seq=295 Ack=1359 Win=32128 Len=0 TSval=4767163 TSecr=4099235285
228 12.250137139.162.21.95 192.168.225.238 TLSv1.2
                                                                       1424 Certificate
229 12.25014:192.168.225.238 139.162.21.95 TCP
                                                                         66 49583 > https [ACK] Seq=295 Ack=2717 Win=35072 Len=0 TSval=4767163 TSecr=4099235285
230 12.250547139.162.21.95 192.168.225.238 TLSv1.2
                                                                        268 Server Key Exchange
231 12.25055;192.168.225.238 139.162.21.95 TCP
237 12.331904192.168.225.238 139.162.21.95 TLSv1.2
                                                                         66 49583 > https [ACK] Seq=295 Ack=2919 Win=37760 Len=0 TSval=4767163 TSecr=4099235285
                                                                         192 Client Key Exchange, Change Cipher Spec, Encrypted Handshake Message
264 12.64798(139.162.21.95 192.168.225.238 TLSV1.2 265 12.648045192.168.225.238 139.162.21.95 TCP 267 12.64868(192.168.225.238 139.162.21.95 TLSV1.2
                                                                        117 Change Cipher Spec, Encrypted Handshake Message
                                                                          66 49583 > https [ACK] Seq=421 Ack=2970 Win=37760 Len=0 TSval=4767262 TSecr=4099235412
267 12.64868 192.168.225.238 139.162.21.95
                                                         TLSv1.2
                                                                         171 Application Data
324 12.98690(139.162.21.95 192.168.225.238 TCP
                                                                          66 https > 49583 [ACK] Seq=2970 Ack=526 Win=30080 Len=0 TSval=4099235515 TSecr=4767263
```

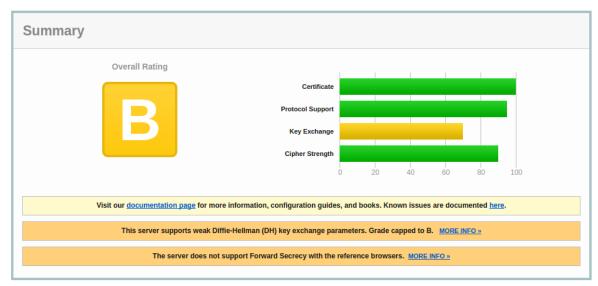


```
server {
                      80;
       listen
       server name
                      zealvora.com;
                      301 https://$server name$request uri;
       return
}
server {
  server name zealvora.com;
  listen 443 default ssl;
  server name zealvora.com;
  ssl certificate /etc/letsencrypt/archive/zealvora.com/fullchain1.pem;
  ssl certificate key /etc/letsencrypt/archive/zealvora.com/privkey1.pem;
  location / {
    root /websites/zealvora/;
    include location-php;
    index index.php;
 location ~ /.well-known {
        allow all;
```

SSL Report: zealvora.com (139.162.21.95)

Assessed on: Wed, 28 Jun 2017 05:50:33 UTC | Hide | Clear cache

Scan Another »



```
lsten 80;
    server_name zealvora.com;
    return 301 https://$server_name$request_uri;
}

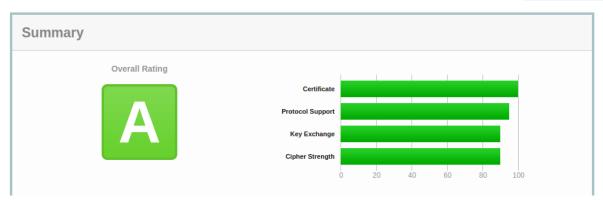
server {
    server_name zealvora.com;
    listen 443 default ssl;
    server_name zealvora.com;
    listen 443 default ssl;
    server_name zealvora.com;
    ssl_certificate /etc/letsencrypt/archive/zealvora.com/fullchain1.pem;
    ssl_certificate_key /etc/letsencrypt/archive/zealvora.com/privkey1.pem;
    ssl_ciphers "EECDH+ECDSA+AESGCM EECDH+aRSA+AESGCM EECDH+ECDSA+SHA384EECDH+ECDSA+SHA256 EECDH+aRSA+SHA256 EECDH
    ssl_prefr_server_ciphers on;
    ssl_dhparam /etc/nginx/dh4096.pem;

location / {
    root /websites/zealvora/;
    include location-php;
    index index.php;
    }
location ~ /.well-known {
        allow all;
    }
}
```

SSL Report: zealvora.com (139.162.21.95)

Assessed on: Wed, 28 Jun 2017 06:28:06 UTC | Hide | Clear cache

Scan Another »

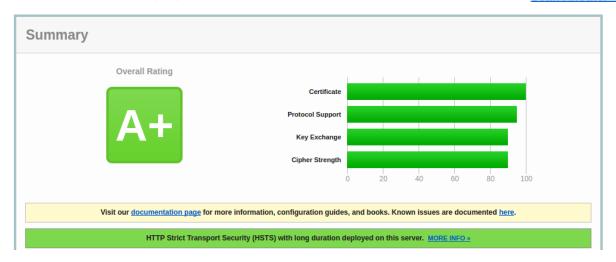


```
server {
       listen
                        80;
                        zealvora.com;
       server name
                        301 https://$server name$request uri;
       return
}
server {
 server_name zealvora.com;
listen 443 default ssl;
  server_name zealvora.com;
  ssl_certificate /etc/letsencrypt/archive/zealvora.com/fullchain1.pem;
  ssl_certificate_key /etc/letsencrypt/archive/zealvora.com/privkey1.pem;
  ssl ciphers "EECDH+ECDSA+AESGCM EECDH+aRSA+AESGCM EECDH+ECDSA+SHA384EECDH+ECDSA+SHA256 EECDH+aRSA+SHA384
  ssl_prefer_server_ciphers on;
 ssl_dhparam /etc/nginx/dh4096.pem;
add_header Strict-Transport-Security "max-age=31536000; includeSubDomains" always;
    root /websites/zealvora/;
    include location-php;
    index index.php;
location ~ /.well-known {
        allow all;
}
}
```

SSL Report: zealvora.com (139.162.21.95)

Assessed on: Wed, 28 Jun 2017 06:45:16 UTC | Hide | Clear cache

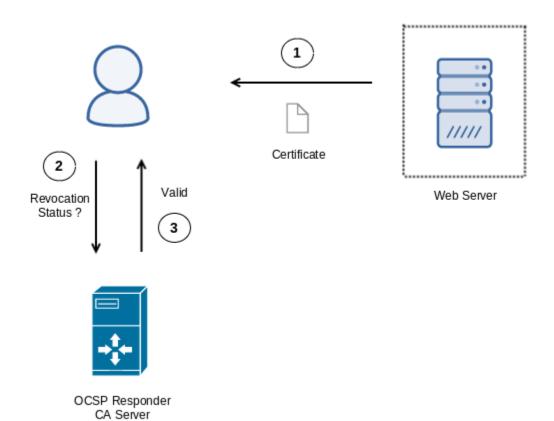
Scan Another »

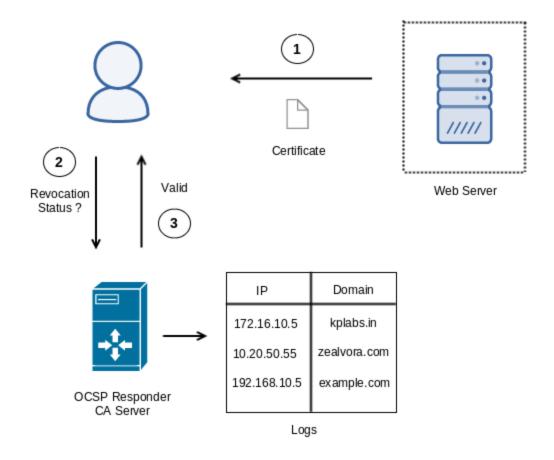


--Certificate Signature Algorithm --Certificate Signature Value

Field Value

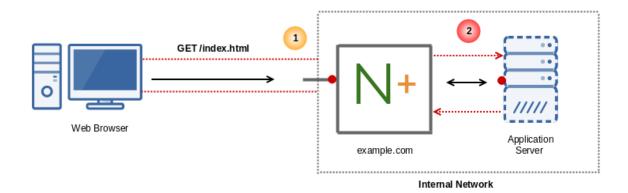
```
Size: 256 Bytes / 2048 Bits
2f 96 c7 05 78 bf 3c 20 e0 95 bd ee d3 cb 85 9d
4b 6d 3a 75 6a ff a3 5d 39 08 6f 63 35 b2 af 6f
e6 37 fb 5b 25 ce 4f d1 e8 d0 8d 19 fc 89 03 aa
11 9a 8f 8e 2b e9 0e 15 22 9d 03 99 ee e8 cc b3
64 c1 4f 53 42 ab 74 32 a4 b0 a4 bc 10 e6 09 88
1f 53 ab 45 1f 4b 10 fd 9d 61 85 ca 4a 71 8b 0d
ac e8 78 c0 e8 43 84 1a 0a cf 93 6e 99 c3 48 23
```

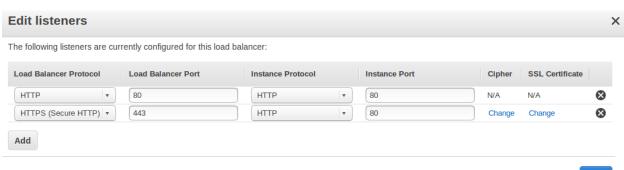




```
server {
listen
                          80;
        server_name
                          zealvora.com;
                          301 https://$server_name$request_uri;
         return
}
server {
  server_name zealvora.com;
  listen 443 default ssl;
  server_name zealvora.com;
  ssl certificate /etc/letsencrypt/archive/zealvora.com/fullchain1.pem;
  ssl_certificate_key /etc/letsencrypt/archive/zealvora.com/privkey1.pem;
ssl_ciphers "EECDH+ECDSA+AESGCM EECDH+aRSA+AESGCM EECDH+ECDSA+SHA384EECDH+ECDSA+SHA256 EECDH+aRSA+SHA384
  ssl_prefer_server_ciphers on;
ssl_dhparam /etc/nginx/dh4096.pem;
  add_header Strict-Transport-Security "max-age=31536000; includeSubDomains" always;
  ssl stapling on;
  sst_stapling_verify on;
ssl_trusted_certificate /etc/letsencrypt/archive/zealvora.com/fullchain1.pem;
 location / {
     root /websites/zealvora/;
     include location-php;
     index index.php;
 location ~ /.well-known {
          allow all;
 }
```

```
[root@mykplabs conf.d]# echo QUIT | openssl s_client -connect www.zealvora.com:443 -status 2> /dev/null | grep -A 17 'OCSP response:' | grep -B 17 'Next Update OCSP response:
```

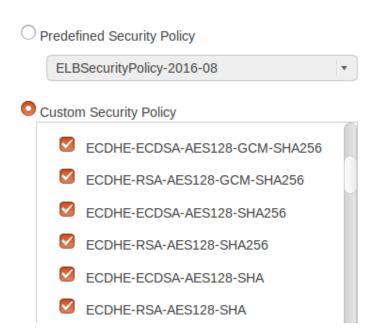




Cancel Save

Select a Cipher

Configure SSL negotiation settings for the HTTPS/SSL listeners of your load balancer. You may select o Policies listed below, or customize your own settings. Learn more about the Security Polices and config settings.



Select Certificate X

An SSL Certificate allows you to configure the HTTPS/SSL listeners of your load balancer. You may select an existing SSL certificate or create a new one below. Learn more about setting up HTTPS load balancers and certificate management. Certificate type: Choose an **existing** certificate from AWS Certificate Manager (ACM) Choose an existing certificate from AWS Identity and Access Management (IAM) O Upload a new SSL certificate to AWS Identity and Access Management (IAM) Certificate name:* e.g. myServerCert Private Key:* (pem encoded) **Public Key Certificate:*** (pem encoded) Certificate Chain: Optional (pem encoded) Save Cancel Let's Encrypt certificate expiration notice for domain "zealvora.com" Inbox x Let's Encrypt Expiry Bot <expiry@letsencrypt.org> Unsubscribe to me 🔻 Hello, Your certificate (or certificates) for the names listed below will expire in 9 days (on 29 Jul 17 11:48 +0000). Please make sure to renew your certificate before then, or visitors to your website will encounter errors. zealvora.com For any questions or support, please visit https://community.letsencrypt.org/.

Unfortunately, we can't provide support by email.



AWS Certificate Manager

AWS Certificate Manager (ACM) makes it easy to provision, manage, deploy, and renew SSL/TLS certificates on the AWS platform.

Get started

User guide

Add domain names Type the fully qualified domain name of the site you want to secure with an SSL/TLS certificate (for example, www.example.com). Use an asterisk (*) to request a wildcard certificate to protect several sites in the same domain. For example: *.example.com protects www.example.com, site.example.com and images.example.com. Remove kplabs.in Add another name to this certificate *At least one domain name is required Cancel Review and request

Greetings from Amazon Web Services,

We received a request to issue an SSL/TLS certificate for kplabs.in.

Verify that the following domain, AWS account ID, and certificate identifier correspond to a request from you or someone in your organization.

Domain: kplabs.in

AWS account ID: 8368-0296-7410 AWS Region name: us-east-1

Certificate identifier: 371fa6a6-523d-4c16-bd77-c2d9d20e1718

To approve this request, go to <u>Amazon Certificate Approvals</u> (https://us-east-1.certificates.amazon.com/approvals?code=3ff54d46-af7c-4aa6-930c-f2c0bda5f36c&context=0400c759-4151-4be0-8a21-9d88c9193a4e-75732d656173742d31) and follow the instructions on the page.

If you choose not to approve this request, you do not need to do anything.

This email is intended solely for authorized individuals for kplabs.in. To express any concerns about this email or if this email has reached you in error, forward it along with a brief explanation of your concern to validation-questions@amazon.com.

Sincerely, Amazon Web Services

Verify that the domain name, AWS account ID, and certificate identifier below correspond to a request from you or a person authorized to request certificates for this domain name.

Domain name kplabs.in

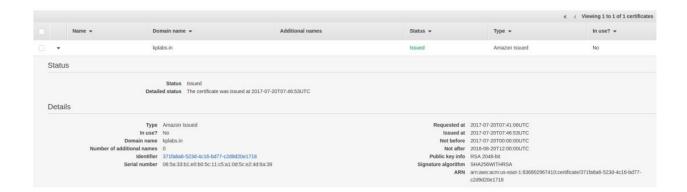
AWS account number 8368-0296-7410

AWS Region us-east-1

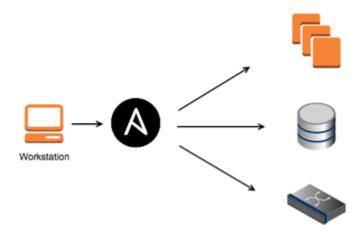
Certificate identifier 371fa6a6-523d-4c16-bd77-c2d9d20e1718

Review the information presented above and click **I Approve** only if you recognize the request and the account requesting it. By clicking **I Approve**, you authorize Amazon to request a certificate for the above domain name.

I Approve



Chapter 6: Automation in Security



GNU nano 2.0.6

File: nginx.yml

- hosts: all

remote_user: ec2-user

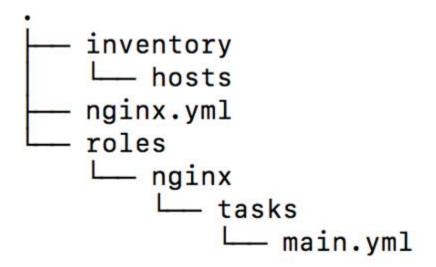
tasks:

 name: Install Nginx webserver yum: name=nginx state=present

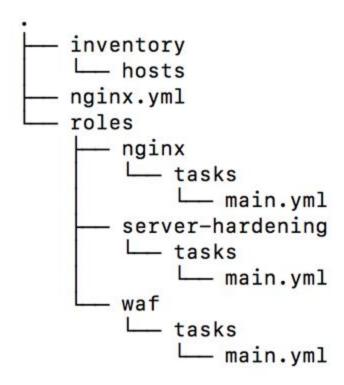
 name: Ensure nginx is running service: name=nginx state=started

Zeals-MBP:kplabs zealvora\$ cat hosts
54.251.133.88

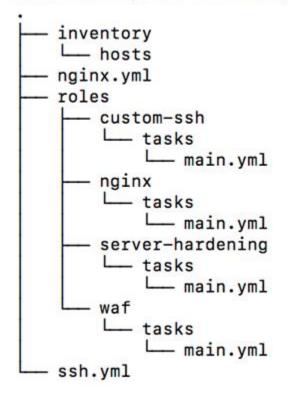
```
Zeals-MBP:kplabs zealvora$ ansible-playbook -s -i hosts nginx.yml
ok: [54,251,133,88]
changed: [54.251.133.88]
changed: [54.251.133.88]
54.251.133.88
                                 : ok=3
                                            changed=2
                                                            unreachable=0
                                                                                 failed=0
[-bash-4.2$ sudo pip install ansible
You are using pip version 6.1.1, however version 9.0.1 is available.
You should consider upgrading via the 'pip install --upgrade pip' command.
Collecting ansible
  Downloading ansible-2.3.1.0.tar.gz (4.3MB)
                               4.3MB 109kB/s
Requirement already satisfied (use --upgrade to upgrade): jinja2 in /usr/lib/python2.7/dist-packages (from ansible)
Requirement already satisfied (use --upgrade to upgrade): PyYAML in /usr/lib64/python2.7/dist-packages (from ansible)
Requirement already satisfied (use --upgrade to upgrade): paramiko in /usr/lib/python2.7/dist-packages (from ansible)
Requirement already satisfied (use --upgrade to upgrade): pycrypto>=2.6 in /usr/lib64/python2.7/dist-packages (from ansible) Requirement already satisfied (use --upgrade to upgrade): setuptools in /usr/lib/python2.7/dist-packages (from ansible)
Requirement already satisfied (use --upgrade to upgrade): markupsafe in /usr/lib64/python2.7/dist-packages (from jinja2->ansible)
Requirement already satisfied (use --upgrade to upgrade): ecdsa>=0.11 in /usr/lib/python2.7/dist-packages (from paramiko->ansible)
Installing collected packages: ansible
  Running setup.py install for ansible
```



Successfully installed ansible-2.3.1.0



Zeals-MBP:kplabs zealvora\$ tree



GNU nano 2.0.6

- name: Running SSH on custom port lineinfile: path=/etc/ssh/sshd_config line='Port 9750' state=present
- name: Set password authentication to false lineinfile: path=/etc/ssh/sshd_config line='PasswordAuthentication no' state=present
- name: Disable root based logins lineinfile: path=/etc/ssh/sshd_config line='PermitRootLogin no' state=present
- name: Restart sshd service service: name=sshd state=restarted

[Zeals-MBP:kplabs zealvora\$ cat ssh.yml

hosts: all

remote_user: ec2-user

roles:

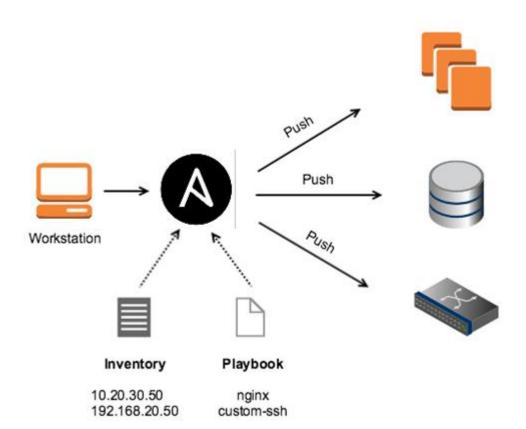
custom-ssh

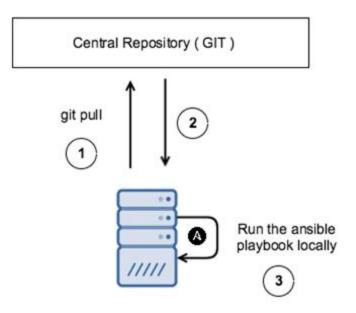
Zeals-MBP:kplabs zealvora\$ ansible-playbook -i inventory/hosts ssh.yml --check ok: [54.169.148.223] changed: [54.169.148.223] changed: [54.169.148.223] changed: [54.169.148.223] changed: [54.169.148.223] 54.169.148.223 : ok=5 changed=4 unreachable=0 failed=0

Zeals-MBP:kplabs zealvora\$ ansible-playbook -s -i inventory/hosts ssh.yml

[root@i	p-172-31	-4-1	.29 ~]# netstat -ntlp			
Active	Internet	cor	nections (only servers)		
Proto F	Recv-Q Se	end-0	Local Address	Foreign Address	State	PID/Program name
tcp	0	6	0.0.0.0:9750	0.0.0.0:*	LISTEN	3236/sshd
tcp	0	6	0.0.0.0:48982	0.0.0.0:*	LISTEN	2325/rpc.statd
tcp	0	6	127.0.0.1:25	0.0.0.0:*	LISTEN	2528/sendmail
tcp	0	6	0.0.0.0:111	0.0.0.0:*	LISTEN	2304/rpcbind
tcp	0	9	0.0.0.0:8080	0.0.0.0:*	LISTEN	2589/python
tcp	0	6	:::9750	:::*	LISTEN	3236/sshd
tcp	0	9	:::53636	:::*	LISTEN	2325/rpc.statd
tcp	0	6	:::111	:::*	LISTEN	2304/rpcbind

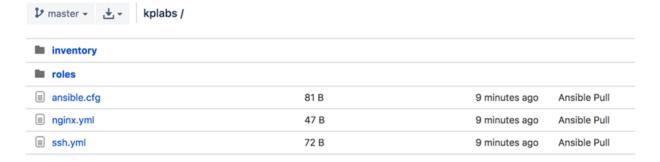
[Zeals-MBP:kplabs zealvora\$ ansible-playbook -s -i inventory/hosts ssh.yml





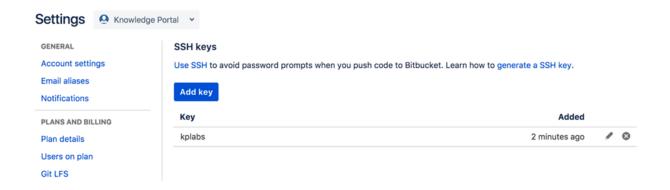
Knowledge Portal / kplabs

Source



```
| Collecting ansible | Downloading ansible-2.3.1.0.tar.gz (4.3MB) | 109kB/s | Requirement already satisfied (use --upgrade to upgrade): paramiko in /usr/lib/python2.7/dist-packages (from ansible) | Requirement already satisfied (use --upgrade to upgrade): paramiko in /usr/lib/python2.7/dist-packages (from ansible) | Requirement already satisfied (use --upgrade to upgrade): paramiko in /usr/lib/python2.7/dist-packages (from ansible) | Requirement already satisfied (use --upgrade to upgrade): paramiko in /usr/lib/python2.7/dist-packages (from ansible) | Requirement already satisfied (use --upgrade to upgrade): peryptoy-2.6 in /usr/lib/dy/python2.7/dist-packages (from ansible) | Requirement already satisfied (use --upgrade to upgrade): setuptools in /usr/lib/python2.7/dist-packages (from ansible) | Requirement already satisfied (use --upgrade to upgrade): markupsafe in /usr/lib/dy/pthon2.7/dist-packages (from jinja2->ansible) | Requirement already satisfied (use --upgrade to upgrade): ecdsa>=0.11 in /usr/lib/python2.7/dist-packages (from paramiko->ansible) | Installing collected packages: ansible | Running setup.py install for ansible | Running setup.py install for ansible | Successfully installed ansible-2.3.1.0
```

[[root@kplabs ~]# ssh-keygen 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: c6:11:46:86:de:33:82:d1:89:ef:c0:c3:da:06:d1:b7 root@kplabs



[[root@kplabs ~]# git clone git@bitbucket.org:sunzeal/kplabs.git Cloning into 'kplabs'... remote: Counting objects: 18, done. remote: Compressing objects: 100% (9/9), done. remote: Total 18 (delta 1), reused 0 (delta 0) Receiving objects: 100% (18/18), done.

Resolving deltas: 100% (1/1), done.

Checking connectivity... done.

```
[[root@kplabs kplabs]# ansible-pull -d /var/ansible -i /var/ansible/inventory/hosts -U git@bitbucket.org:sunzeal/kplabs.git ssh.yml
Starting Ansible Pull at 2017-08-06 12:03:12
/usr/local/bin/ansible-pull -d /var/ansible -i /var/ansible/inventory/hosts -U git@bitbucket.org:sunzeal/kplabs.git ssh.yml
127.0.0.1 | SUCCESS => {
    "after": "00e7951e69a9c30e2ad901ae8b6eb0dc870330c8",
 "before": "00e7951e69a9c30e2ad901ae8b6eb0dc870330c8",
 "changed": false,
 "remote_url_changed": false
ok: [127.0.0.1]
ok: [127.0.0.1]
changed: [127.0.0.1]
: ok=5 changed=1 unreachable=0 failed=0
127.0.0.1
```



ansible notifications

This is the room topic. Double click to change it.

Sunday August 6, 2017

ansible · 6:45 PM

OSSEC RPM is not installed 172.31.4.129

ansible · 6:45 PM

SpaceWalk is not installed in 172.31.4.129

Home People Rooms Emoticons

Summary

History

Integrations

Tokens

Archive

Delete

Permissions

Rooms / ansible notifications

Room Details

Room admin	Knowledge Portal
Messages sent	4
Created	Today at 5:53pm
Last active	28m ago
Privacy	Private
API ID	4076312
XMPP JID	605835_ansible_notifications@conf.hipchat.com

```
- name: Check if OSSEC RPM is installed
  shell: rpm -qa | grep ossec
  register: ossec
  ignore_errors: True
- name: Check if server is connected with spacewalk
  shell: ls -l /var/lib/spacewalk/systemid
  register: spacewalk
  ignore_errors: True
- name: Alert if OSSEC is not installed
  hipchat:
    api=https://api.hipchat.com/v2/
    msg="OSSEC RPM is not installed {{ ansible_eth0.ipv4.address }}"
    room=4076312
    token=3QEFb0SykNenZZ0Oq1I56CnOm95DRfwbklyKd
  when: ossec|failed or ossec|skipped
- name: Alert if SpaceWalk is not installed
  hipchat:
    api=https://api.hipchat.com/v2/
    color=purple
    msg="SpaceWalk is not installed in {{ ansible_eth0.ipv4.address }}"
    room=4076312
    token=3QEFb0SykNenZZ0Oq1I56COmA95DRfw3bklyKd
when: spacewalk|failed or spacewalk|skipped
```





Sunday August 6, 2017

ansible · 6:45 PM

OSSEC RPM is not installed 172.31.4.129

ansible · 6:45 PM

SpaceWalk is not installed in 172.31.4.129

Zeals-MBP:nginx zealvora\$ tree



2 directories, 4 files

GNU nano 2.0.6

 name: Install Nginx webserver yum: name=nginx state=present

- name: Copy the certificate and private key file copy: src=fullchain.pem dest=/etc/ssl/certs/

- name: Copy the private key file to the server copy: src=privkey.pem dest=/etc/ssl/certs/

- name: Copy the Nginx configuration file

copy: src=kplabs.conf dest=/etc/nginx/conf.d/

 name: Ensure nginx is restarted service: name=nginx state=restarted

Zeals-MBP:files zealvora\$ cat privkey.pem | head -n 7
----BEGIN PRIVATE KEY----

MIIEvgIBADANBgkqhkiG9w0BAQEFAASCBKgwggSkAgEAAoIBAQDEnBUyk0THFhk/ 47xKdAKF6YZ24mDXSuUfT+fKequkPdBs7HE7TB8ECQ4Ivt3eE1IFhfwCTIhcjpSB DFFR8gh+dhi0pbMU20ltxBxNCCRz8FZIki4QfV2qwi+Lqgwes4CVxg2KL8FsZSef yYJV6HLVAgMBAAECggEBAKFpMs3uscxwjBIzuWW2kEu4SLhZaf/WcPyf8T/+LeQN C4whIWT5PY1mkasEZ8nmOrRmJ1sL0feK5sh7gFeySN7pvaaxUrCQx1viYQms4aB9 c5joygCnq7qA6d/Tn1elLq/HhV4pjraa5Uj/FoHjQU/bsdcfpIcmmAQaTimG3DT8

Zeals-MBP:files zealvora\$ cat privkey.pem | head -n 7
\$ANSIBLE_VAULT;1.1;AES256

 $37623435656363666665386165313639373966663634643739323832303639383664666264316362\\ 3539363937653537313566303631353561613430386165610a343864383262613532646631376665\\ 31666539653339663566356563663132613038646530666564343131326162616338303038343833\\ 3565373561306264370a323761653738356632303438313162376164306362346439346333373537\\ 32323163343865326463343838363531613835366133653136373031376465393163653936653261\\ 61393062343437386262633334346233613036636337376536613035383639663132343430623431$

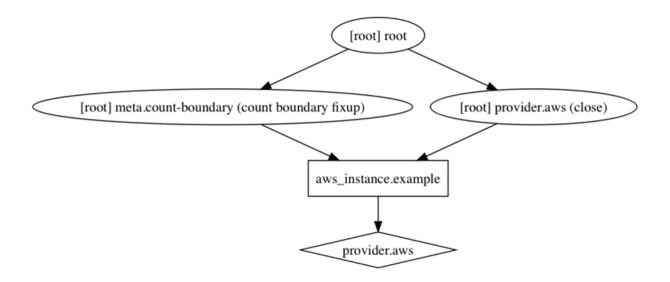
```
Zeals-MBP:kplabs zealvora$ ansible-playbook -s -i inventory/hosts nginx.yml --check --private-key=~/.ssh/id_rsa
ok: [139.162.60.216]
TASK [nginx : Copy the private key file to the server]
fatal: [139.162.60.216]: FAILED! => {"failed": true, "msg": "A vault password must be specified to decrypt /Users/zealvora/a
it/kplabs/roles/nginx/files/privkey.pem"}
  to retry, use: --limit @/Users/zealvora/ansible/kplabs/git/kplabs/nginx.retry
139.162.60.216
        : ok=3 changed=2 unreachable=0 failed=1
Zeals-MBP:kplabs zealvora$ ansible-playbook -s -i inventory/hosts nginx.yml --check --private-key=~/.ssh/id_rsa --ask-vault-pass
ok: [139.162.60.216]
changed: [139.162.60.216]
changed: [139.162.60.216]
139.162.60.216
       : ok=6 changed=5 unreachable=0
```

GNU nano 2.0.6 File: ec2.tf

```
provider "aws" {
  shared_credentials_file = "${pathexpand("~/.aws/credentials")}"
             = "test"
  profile
  region
             = "us-east-1"
}
resource "aws_instance" "example" {
                 = "ami-92343b84"
  instance_type = "t2.micro"
  key_name
                 = "zeal"
  tags {
    Name = "HelloWorld"
  }
}
```

+ aws_instance.example

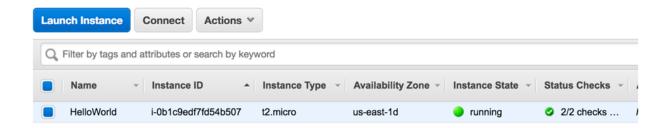
```
ami:
                                "ami-92343b84"
associate_public_ip_address:
                                "<computed>"
availability_zone:
                                "<computed>"
ebs_block_device.#:
                                "<computed>"
                                "<computed>"
ephemeral_block_device.#:
instance_state:
                                "<computed>"
instance_type:
                                "t2.micro"
ipv6_address_count:
                                "<computed>"
ipv6_addresses.#:
                                "<computed>"
key_name:
                                "zeal"
network_interface.#:
                                "<computed>"
network_interface_id:
                                "<computed>"
placement_group:
                                "<computed>"
primary_network_interface_id:
                                "<computed>"
private_dns:
                                "<computed>"
private_ip:
                                "<computed>"
public_dns:
                                "<computed>"
public_ip:
                                "<computed>"
root_block_device.#:
                                "<computed>"
security_groups.#:
                                "<computed>"
source_dest_check:
                                "true"
subnet_id:
                                "<computed>"
                                "1"
tags.%:
tags.Name:
                                "HelloWorld"
                                "<computed>"
tenancy:
volume_tags.%:
                                "<computed>"
                                "<computed>"
vpc_security_group_ids.#:
```



```
aws_instance.example: Still creating... (10s elapsed)
aws_instance.example: Still creating... (20s elapsed)
aws_instance.example: Still creating... (30s elapsed)
aws_instance.example: Still creating... (40s elapsed)
aws_instance.example: Still creating... (50s elapsed)
aws_instance.example: Creation complete (ID: i-0b1c9edf7fd54b507)
```

Apply complete! Resources: 1 added, 0 changed, 0 destroyed.

The state of your infrastructure has been saved to the path below. This state is required to modify and destroy your infrastructure, so keep it safe. To inspect the complete state use the `terraform show` command.



```
Zeals-MBP:kplabs zealvora$ terraform destroy
Do you really want to destroy?
   Terraform will delete all your managed infrastructure.
   There is no undo. Only 'yes' will be accepted to confirm.

Enter a value: yes

aws_instance.example: Refreshing state... (ID: i-0b1c9edf7fd54b507)
aws_instance.example: Destroying... (ID: i-0b1c9edf7fd54b507)
aws_instance.example: Still destroying... (ID: i-0b1c9edf7fd54b507, 10s elapsed)
aws_instance.example: Still destroying... (ID: i-0b1c9edf7fd54b507, 20s elapsed)
aws_instance.example: Still destroying... (ID: i-0b1c9edf7fd54b507, 30s elapsed)
aws_instance.example: Still destroying... (ID: i-0b1c9edf7fd54b507, 50s elapsed)
aws_instance.example: Still destroying... (ID: i-0b1c9edf7fd54b507, 50s elapsed)
aws_instance.example: Still destroying... (ID: i-0b1c9edf7fd54b507, 1m0s elapsed)
aws_instance.example: Destruction complete
```

Destroy complete! Resources: 1 destroyed.



```
provider "aws" {
  shared_credentials_file = "${pathexpand("~/.aws/credentials")}"
            = "test"
  profile
             = "us-east-1"
  region
resource "aws_instance" "example" {
                = "ami-92343b84'
  instance_type = "t2.micro"
                = "zeal"
  key_name
  vpc_security_group_ids = ["${aws_security_group.kplabs.id}"]
  tags {
   Name = "HelloWorld"
  provisioner "local-exec" {
   command = "echo ${aws_instance.example.public_ip} > /Users/zealvora/ansible/kplabs/inventory/hosts"
  provisioner "local-exec" {
    command = "sleep 250"
 provisioner "local-exec" {
    command = "ansible-playbook -s -v -i /Users/zealvora/ansible/kplabs/inventory/hosts /Users/zealvora/ansible/kplabs/ssh.yml -u ec2-user
```

```
aws_instance.example: Creating...
  ami:
                                     "" => "ami-92343b84"
                                     "" => "<computed>"
  associate_public_ip_address:
  availability_zone:
                                     "" => "<computed>"
                                     "" => "<computed>"
  ebs_block_device.#:
                                     "" => "<computed>"
  ephemeral_block_device.#:
  instance_state:
                                     "" => "<computed>"
                                     "" => "t2.micro"
  instance_type:
                                     "" => "<computed>"
  ipv6_address_count:
                                     "" => "<computed>"
  ipv6_addresses.#:
                                     "" => "zeal"
  key_name:
                                     "" => "<computed>"
 network_interface.#:
                                     "" => "<computed>"
 network_interface_id:
 placement_group:
                                     "" => "<computed>"
                                     "" => "<computed>"
 primary_network_interface_id:
 private_dns:
                                     "" => "<computed>"
 private_ip:
                                     "" => "<computed>"
 public_dns:
                                     "" => "<computed>"
 public_ip:
                                     "" => "<computed>"
 root_block_device.#:
                                     "" => "<computed>"
                                     "" => "<computed>"
  security_groups.#:
                                     "" => "true"
  source_dest_check:
                                     "" => "<computed>"
  subnet_id:
                                     "" => "1"
  tags.%:
                                     "" => "HelloWorld"
 tags.Name:
                                     "" => "<computed>"
  tenancy:
                                     "" => "<computed>"
 volume_tags.%:
                                     "" => "1"
 vpc_security_group_ids.#:
  vpc_security_group_ids.649569450: "" => "sg-a6d829d6"
```

```
aws_instance.example (local-exec): Executing: /bin/sh -c "echo 34.228.57.154 > /Users/zealvora/ansible/kplabs/inventory/hosts"
aws_instance.example: Provisioning with 'local-exec'...
aws_instance.example (local-exec): Executing: /bin/sh -c "sleep 250"
aws_instance.example: Provisioning with 'local-exec'...
aws_instance.example (local-exec): Executing: /bin/sh -c "ansible-playbook -s -v -i /Users/zealvora/ansible/kplabs/inventory/hosts /Users/zealvora/ansible/kplabs/ssh.yml
-user --private-key=-/Downloads/zeal.pem"
aws_instance.example (local-exec): Using /Users/zealvora/terraform/kplabs/ansible.cfg as config file
aws_instance.example: Still creating... (5m0s elapsed)
aws_instance.example (local-exec): ok: [34.228.57.154]
aws_instance.example: Still creating... (5m10s elapsed)
aws_instance.example (local-exec): changed: [34.228.57.154] => {"backup": "", "changed": true, "msg": "line added"}
aws_instance.example: Still creating... (5m20s elapsed)
aws_instance.example (local-exec): ok: [34.228.57.154] => {"backup": "", "changed": false, "msg": ""}
aws_instance.example: Still creating... (5m30s elapsed)
aws_instance.example (local-exec): changed: [34.228.57.154] => {"changed": true, "name": "sshd", "state": "started"}
aws_instance.example: Creation complete (ID: i-0b49285399c9f2f52)
```



Apply complete! Resources: 2 added, 0 changed, 0 destroyed.

AWS Lambda

AWS Lambda lets you run code in response to events, without provisioning or managing servers. Just upload your code and Lambda will take care of everything required to run and scale it with high availability.

Get Started Now

Lambda > New function

Select blueprint

Configure triggers

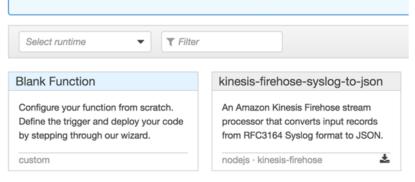
Configure function

Review

Select blueprint

Blueprints are sample configurations of event sources and Lambda functions. Choose a blueprint and customize as needed, or skip this step if you want to author a Lambda function and configur otherwise noted, blueprints are licensed under CCO.

Welcome to AWS Lambda! You can get started on creating your first Lambda function by chc



Configure triggers

You can choose to add a trigger that will invoke your function.

Welcome to AWS Lambda! You can get started on creating your first Lambda function by choosing one of the blueprints below.



Cancel

Previous

Next

Configure function

A Lambda function consists of the custom code you want to execute. Learn more about Lambda functions.

Welcome to AWS Lambda! You can get started on creating your first Lambda function by choosing one of the blueprints below.



Lambda function code

Provide the code for your function. Use the editor if your code does not require custom libraries (other than boto3). If you need custom you can upload your code and libraries as a .ZIP file.

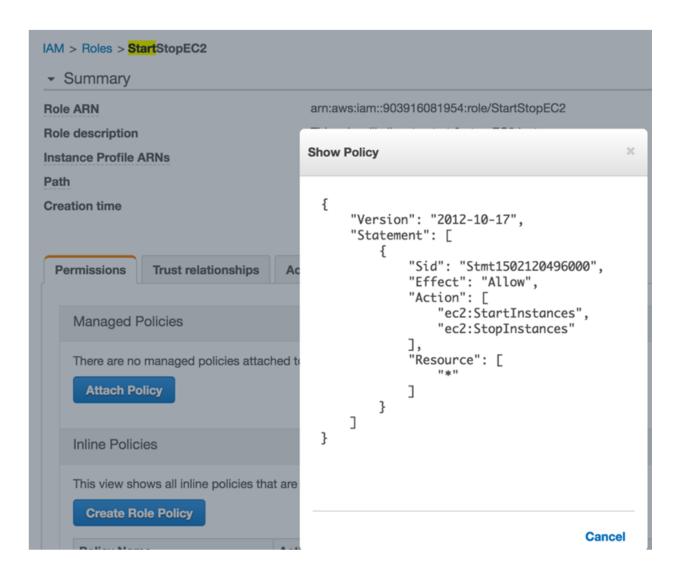


```
import boto3

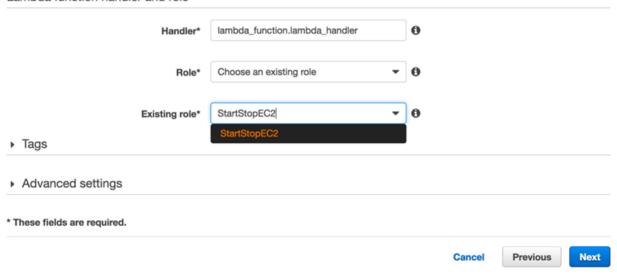
region = 'ap-south-1'

instances = ['i-03ff2466f732424ba','i-081cdace42aa454e5|']

def lambda_handler(event, context):
    ec2 = boto3.client('ec2', region_name=region)
    ec2.stop_instances(InstanceIds=instances)
    print 'stopped your instances: ' + str(instances)
```

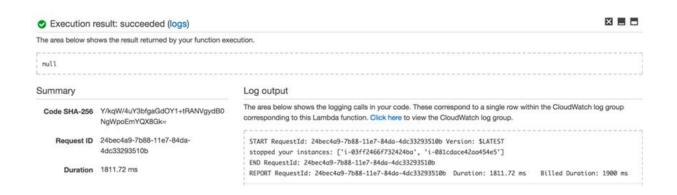


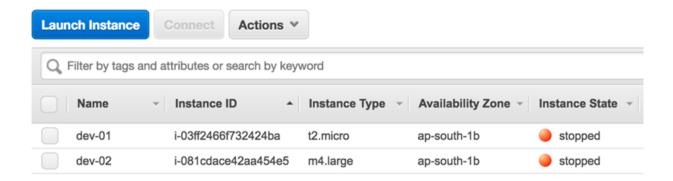
Lambda function handler and role



Lambda > Functions







Configure function

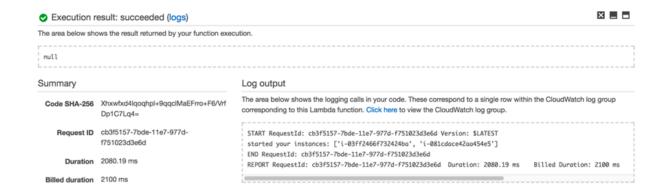
A Lambda function consists of the custom code you want to execute. Learn more about Lambda functions.

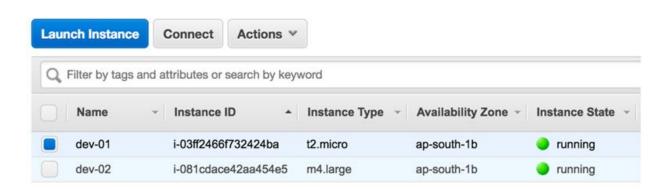


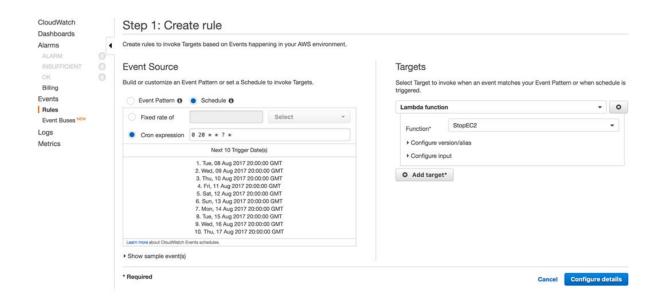
Lambda function code

Provide the code for your function. Use the editor if your code does not require custom libraries (other than boto3). If you you can upload your code and libraries as a .ZIP file.

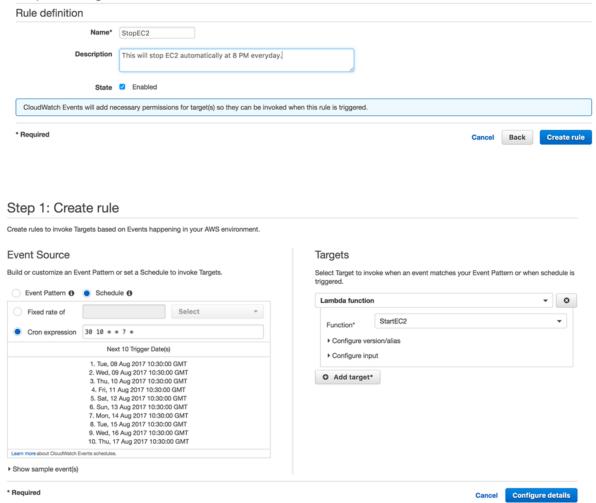








Step 2: Configure rule details

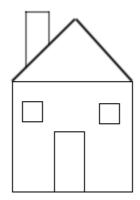


Rules

Rules route events from your AWS resources for processing by selected targets. You can create, edit, and delete rules.



Chapter 7: Vulnerability, Pentest, and Patch Management



```
root@kplabs:-/nikto/program# ./nikto.pl -host zealvora.com
- Nikto v2.1.6

+ Target IP: 139.162.21.95
+ Target Hostname: zealvora.com
+ Target Port: 80
+ Start Time: 2017-07-22 18:23:33 (GMT5.5)

+ Server: nginx/1.10.2
+ The anti-clickjacking X-Frame-Options header is not present.
+ The X-SS-Protection header is not defined. This header can hint to the user agent to protect against some forms of XSS
+ The X-Content-Type-Options header is not set. This could allow the user agent to render the content of the site in a different fashion to the MIME type
+ Root page / redirects to: https://zealvora.com/
+ No CGI Directories found (use '-c all' to force check all possible dirs)
+ Retrieved x-powered-by header: PHP/5.4.16
```

CVE-ID	
CVE-2014-3556	Learn more at National Vulnerability Database (NVD) - Severity Rating - Fix Information - Vulnerable Software Versions - SCAP Mappings
Description	
The STARTTLS impleme commands into encrypted	ntation in mail/ngx_mail_smtp_handler.c in the SMTP proxy in nginx 1.5.x and 1.6.x before 1.6.1 and 1.7.x before 1.7.4 does not properly restrict I/O buffering, which allows man-in-the-middle attackers to insert d SMTP sessions by sending a cleartext command that is processed after TLS is in place, related to a "plaintext command injection" attack, a similar issue to CVE-2011-0411.
References	
Note: References are provi	ted for the convenience of the reader to help distinguish between vulnerabilities. The list is not intended to be complete.
URL:http://mailmar CONFIRM:http://m CONFIRM:http://m HP:HPSBOV0322: URL:http://marc.in/	unce] 20140805 nginx security advisory (CVE-2014-3556) .nginx.org/pipermail/nginx.announce/2014/000144.html imx.org/download/patch_2014.startistxi uugzilla.redhat.com/show_bug.cqi?rid=1126891 7 o/?l=bugtraq&m=142103967620673&w=2
Date Entry Created	
20140514	Disclaimer: The entry creation date may reflect when the CVE-ID was allocated or reserved, and does not necessarily indicate when this vulnerability was discovered, shared with the affected vendor, publicly disclosed, or updated in CVE.
Phase (Legacy)	
Assigned (20140514)	
Votes (Legacy)	
Comments (Legacy)	
Comments (Legacy)	
Proposed (Legacy)	
N/A	

₩ CVE-2014-3556 Detail



This vulnerability has been modified since it was last analyzed by the NVD. It is awaiting reanalysis which may result in further changes to the information provided.

Description

The STARTTLS implementation in mail/ngx_mail_smtp_handler.c in the SMTP proxy in nginx 1.5.x and 1.6.x before 1.6.1 and 1.7.x before 1.7.4 does not properly restrict I/O buffering, which allows man-in-the-middle attackers to insert commands into encrypted SMTP sessions by sending a cleartext command that is processed after TLS is in place, related to a "plaintext command injection" attack, a similar issue to CVE-2011-0411.

Source: MITRE Last Modified: 12/29/2014

Impact

CVSS Severity (version 2.0):

CVSS v2 Base Score: 4.3 MEDIUM

Vector: (AV:N/AC:M/Au:N/C:P/I:N/A:N) (legend)

Impact Subscore: 2.9 Exploitability Subscore: 8.6

CVSS Version 2 Metrics:

Access Vector: Network exploitable - Victim must voluntarily interact with attack

Access Complexity: Medium

Authentication: Not required to exploit

Impact Type: Allows unauthorized disclosure of information

References to Advisories, Solutions, and Tools

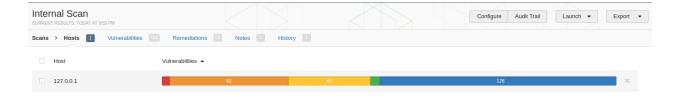
By selecting these links, you will be leaving NIST webspace. We have provided these links to other web sites because they may have information that would be of interest to you. No inferences should be drawn on account of other sites being referenced, or not, from this page. There may be other web sites that are more appropriate for your purpose. NIST does not necessarily endorse the views expressed, or concur with the facts presented on these sites. Further, NIST does not endorse any commercial products that may be mentioned on these sites. Please address comments about this page to nvd@nist.gov.

Quick Info

CVE Dictionary Entry: CVE-2014-3556 Original release date: 12/29/2014

Last revised: 03/16/2015 Source: US-CERT/NIST

Hyperlink	Resource	Туре	Source	Name
http://mailman.nginx.org/pipermail/nginx-announce/2014/000144.html	Patch; Vendor Advisory	External Source	MLIST	[nginx-announce] 20140805 nginx security advisory (CVE-2014-3556)
http://marc.info/?l=bugtraq&m=142103967620673&w=2		External Source	HP	HPSBOV03227
http://nginx.org/download/patch.2014.starttls.txt		External Source	CONFIRM	http://nginx.org/download/patch.2014.starttls.txt
https://bugzilla.redhat.com/show/bug.cgi?id=1126891		External Source	CONFIRM	https://bugzilla.redhat.com/show_bug.cgi?id=1126891





CRITICAL Ubuntu 12.04 LTS / 14.04 LTS / 16.04 LTS / 16.10 : firefox regression (USN-3216-2)

Description

USN-3216-1 fixed vulnerabilities in Firefox. The update resulted in a startup crash when Firefox is used with XRDP. This update fixes the problem.

Multiple security issues were discovered in Firefox. If a user were tricked in to opening a specially crafted website, an attacker could potentially exploit these to bypass same origin restrictions, obtain sensitive information, spoof the addressbar, spoof the print dialog, cause a denial of service via application crash or hang, or execute arbitrary code. (CVE-2017-5398, CVE-2017-5409, CVE-2017-5401, CVE-2017-5402, CVE-2017-5403, 5404, CVE-2017-5405, CVE-2017-5406, CVE-2017-5407, CVE-2017-5408, CVE-2017-5410, CVE-2017-5412, CVE-2017-5413, CVE-2017-5414, CVE-2017-5415, CVE-2017-5416, CVE-2017-5417, CVE-2017-5418, CVE-2017-5419, CVE-2017-5420, CVE-2017-5421, CVE-2017-5422, CVE-2017-5426, CVE-2017-5420, CVE-2017

Note that Tenable Network Security has extracted the preceding description block directly from the Ubuntu security advisory. Tenable has attempted to automatically clean and format it as much as possible without introducing additional issues

Solution

Update the affected firefox package.

Output

- Installed package : firefox_47.0+build3-0ubuntu0.14.04.1 Fixed package : firefox_52.0.2+build1-0ubuntu0.14.04.1

Plugin Details

99121 Version: \$Revision: 3.2 \$

Type: local

Ubuntu Local Security Checks Family:

2017/03/31 Published: 2017/04/04 Modified:

Risk Information

Risk Factor: Critical CVSS Base Score: 10.0

CVSS Vector: CVSS2#AV:N/AC:L/Au:N/C:C/I:C/A:C

CVSS Temporal Vector: CVSS2#E:U/RL:OF/RC:C CVSS Temporal Score: 7.4

Vulnerability Information

CPE: cpe:/o:canonical:ubuntu_linux:12.04:-its cpe:/o:canonical:ubuntu_linux:14.04 cpe:/o:canonical:ubuntu_linux:16.04

□ Hosting History

Netblock owner	IP address	os	Web server	Last seen	Refresh
Linode, LLC	139.162.21.95	Linux	nginx/1.10.2	27-Feb-2017	

□ Security

Netcraft Risk Rating [FAQ]	1/10		
On Spamhaus Block List	No	On Exploits Block List	No
On Policy Block List	No	On Domain Block List	No

```
[root@mykplabs ~]# nmap -sV kplabs.in
Starting Nmap 6.40 ( http://nmap.org ) at 2017-07-29 03:48 UTC
Nmap scan report for kplabs.in (139.162.21.95)
Host is up (0.000011s latency).
rDNS record for 139.162.21.95: li863-95.members.linode.com
Not shown: 996 closed ports
         STATE SERVICE VERSION
PORT
                      vsftpd 3.0.2
21/tcp
         open ftp
80/tcp
         open http
                      nginx 1.10.2
443/tcp open http
                      nginx 1.10.2
3306/tcp open mysql?
1 service unrecognized despite returning data. If you know the service/version
```

```
[root@mykplabs ~]# telnet kplabs.in 3306
Trying 139.162.21.95...
Connected to kplabs.in.
Escape character is '^]'.
V\most 'li863-95.members.linode.com' is not allowed to connect to this MariaDB serverConnection closed by oreign host.
```

Current Description

The (1) TLS and (2) DTLS implementations in OpenSSL 1.0.1 before 1.0.1g do not properly handle Heartbeat Extension packets, which allows remote attackers to obtain sensitive information from process memory via crafted packets that trigger a buffer over-read, as demonstrated by reading private keys, related to d1_both.c and t1_lib.c, aka the Heartbleed bug.

Source: MITRE Last Modified: 04/07/2014 + View Analysis Description

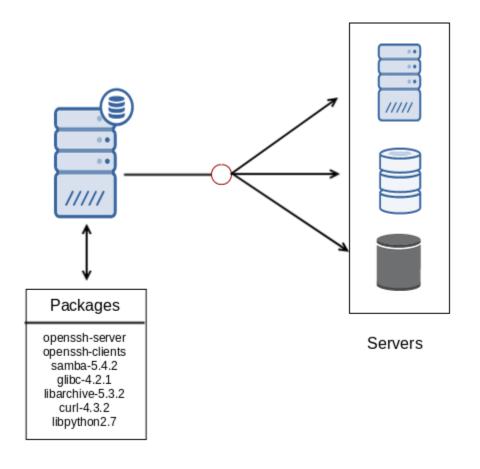
Impact

CVSS Severity (version 2.0):

CVSS v2 Base Score: 5.0 MEDIUM

Vector: (AV:N/AC:L/Au:N/C:P/I:N/A:N) (legend)

Impact Subscore: 2.9
Exploitability Subscore: 10.0



Dependencies Resolved ______ Package Version Arch _____ Installing: spacewalk-setup-postgresql noarch 2.6.2-1.el7 Installing for dependencies: 4.87-4.el7 9.2.18-1.el7 x86_64 lsof x86_64 postgresql-contrib x86_64 x86_64 9.2.18-1.el7 postgresql-pltcl postgresql-server 9.2.18-1.el7 tcl x86_64 1:8.5.13-8.el uuid x86⁻⁶⁴ 1.6.2-26.el7 Transaction Summary Install 1 Package (+6 Dependent packages) Total download size: 6.6 M Installed size: 24 M Is this ok [y/d/N]: ■

spacewalk-schema	noarch	2.6.1/-1.el/			
spacewalk-search	noarch	2.6.1-1.el7			
spacewalk-selinux	noarch	2.3.2-1.el7			
spacewalk-setup	noarch	2.6.2-1.el7			
spacewalk-setup-jabberd	noarch	2.3.2-1.el7			
spacewalk-taskomatic	noarch	2.6.49-1.el7			
stringtree-json	noarch	2.0.9-11.el7			
struts	noarch	1.3.10-14.1.el7			
susestudio-java-client	noarch	0.1.4-4.el7			
tanukiwrapper	x86 64	3.2.3-16.el7			
tftp-server	x86 ⁻ 64	5.2-13.el7			
tomcat5-jsp-2.0-api	noarch	5.5.27-7.jpp5			
tomcat5-servlet-2.4-api	noarch	5.5.27-7.jpp5			
tomcat6-servlet-2.5-api	noarch	6.0.18-9.jpp5			
udns	x86 64	0.4-3.el7			
unzip	x86 ⁻ 64	6.0-16.el7			
velocity-dvsl	noarch	1.0-2.jpp5			
velocity-tools	noarch	1.4-1.jpp5			
•		366-			
Transaction Summary					

Install 1 Package (+258 Dependent packages)

Total download size: 138 M Installed size: 388 M Is this ok [y/d/N]: ■

```
Redirecting to /bin/systemctl status postgresql.service
postgresql.service - PostgreSQL database server
Loaded: loaded (/usr/lib/systemd/system/postgresql.service; enabled; vendor preset: disabled)
Active: active (running) since Tue 2017-07-25 10:08:44 UTC; 1h 54min ago
Process: 1750 ExecStop=/usr/bin/pg_ctl stop .D s{PGDATA} - s - m fast (code=exited, status=0/SUCCESS)
Process: 1779 ExecStart=/usr/bin/pg_ctl start -D s{PGDATA} - s - m fast (code=exited, status=0/SUCCESS)
Process: 1774 ExecStartPre=/usr/bin/pg_ctl start -D s{PGDATA} - s - m fast (code=exited, status=0/SUCCESS)
Process: 1774 ExecStartPre=/usr/bin/pg_ctl start -D s{PGDATA} - s - m fast (code=exited, status=0/SUCCESS)
Main PID: 1783 (postgres)

• jabberd.service - Jabber Server
Loaded: loaded (/usr/lib/systemd/system/jabberd.service; enabled; vendor preset: disabled)
Active: active (exited) since Tue 2017-07-25 10:08:44 UTC; 1h 54min ago
Process: 1813 ExecStart=/bin/frue (code=exited, status=0/SUCCESS)

Wain PID: 1813 (code=exited, status=0/SUCCESS)

Group: /system.stice/jabberd.service

1012 5 10:08:44 ip 10:06:10-167.eu-west-1.compute.internal systemd[1]: Starting Jabber Server.

Redirecting to /bin/systemctl status tomcat.service

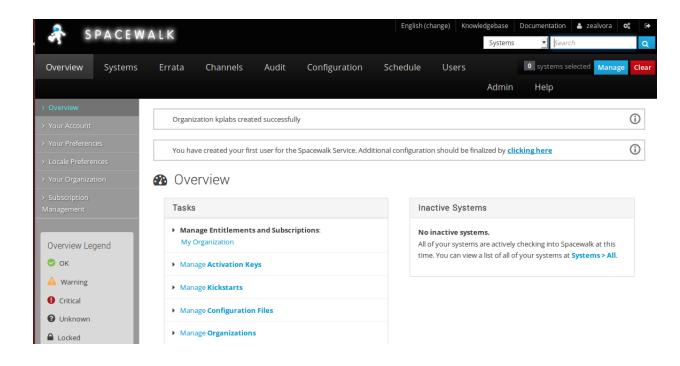
• tomcat.service - Apache Tomcat Web Application Container
Loaded: loaded /(usr/lib/systemd/system/tomcat.service)

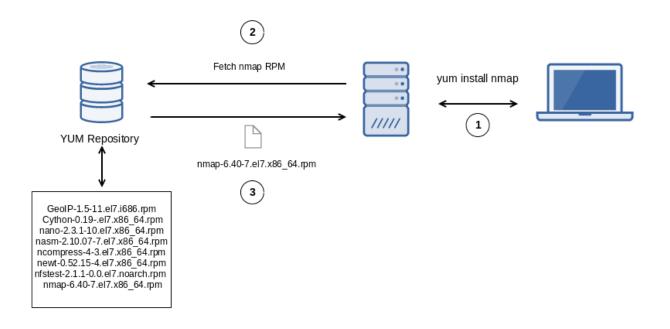
1012 5 10:09:05 ip 10:06:10-167.eu-west-1.compute.internal systemd[1]: Starting Jabber Server.

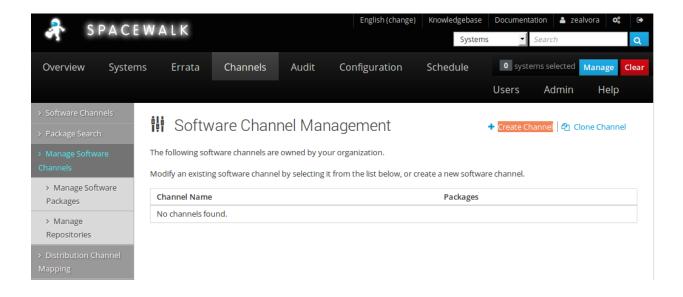
Jul 25 10:09:05 ip 10:06:10-167.eu-west-1.compute.internal systemd[1]: Starting Jabber Server.

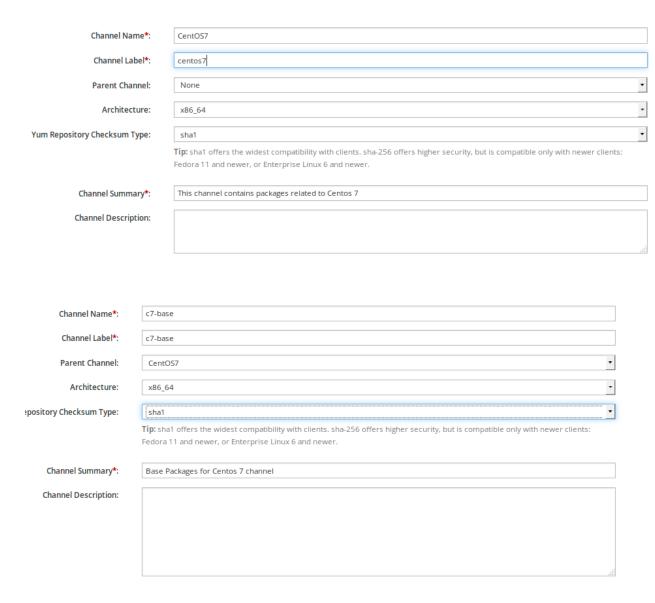
2011 25 10:09:05 ip 10:06:10-107.eu-west-1.compute.internal system(1]: Starting Jabber Server.

Jul 25 10:09:05 ip 10:06:10-107.eu-west-1.compute.internal server[130]: NIND: Deployment on configuration descriptor /etc/tomcat/Catalina/
Jul 25 10:09:05 ip 10:06:10-107.eu-west-1.compute.internal server[130]: NIND: Deployment on configuration descriptor /etc/tomcat/Catalina/
Jul 25 10:09:05 ip 10:06:10-107.eu-west-1.compute.internal server[130]: NIND: Deployment on configuration descriptor /etc/tomcat/Catalina/
Jul 25 1
```









Full Software Channel List

All Channels Popular Channels My Channels Shared Channels Retired Channels

The software channels listed below are **all of the channels** that your organization has access to.



Full Software Channel List

All Channels

Popular Channels My Channels

Shared Channels

Retired Channels

The software channels listed below are all of the channels that your organization has access to.



centos7

Details **Child Channels** Packages Configuration Groups **Activated Systems**

Any system registered using this activation key will be subscribed to the selected child channels.

The following child channels of CentOS7 can be associated with this activation key.

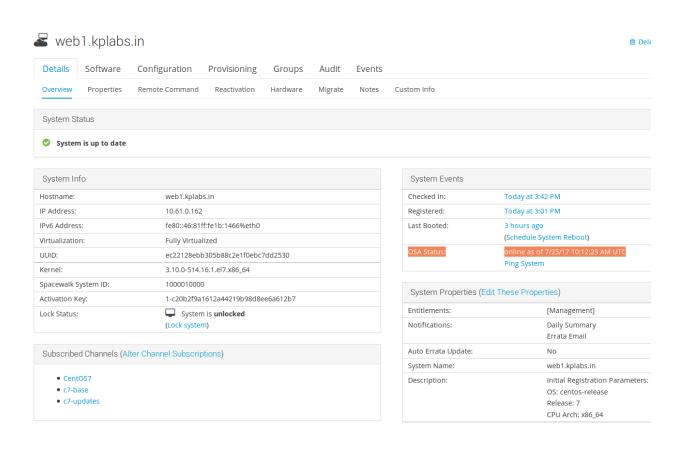


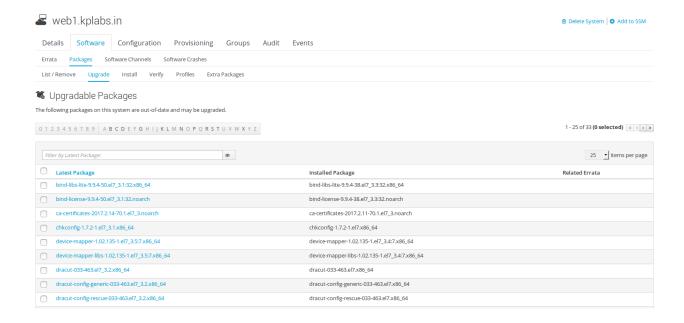
Update Key

[root@webl -]# yum install rhn-org-trusted-ssl-cert-1.0-3.noarch.rpm -y
Loaded plugins: fastestmirror
Examining rhn-org-trusted-ssl-cert-1.0-3.noarch.rpm: rhn-org-trusted-ssl-cert-1.0-3.noarch
Marking rhn-org-trusted-ssl-cert-1.0-3.noarch.rpm to be installed
Resolving Dependencies
--> Running transaction check
--> Package rhn-org-trusted-ssl-cert.noarch 0:1.0-3 will be installed
--> Finished Dependency Resolution Dependencies Resolved Package Arch Version ${\tt Repository}$ Installing: rhn-org-trusted-ssl-cert 1.0-3 /rhn-org-trusted-ssl-cert-1.0-3.noarch noarch Transaction Summary Install 1 Package







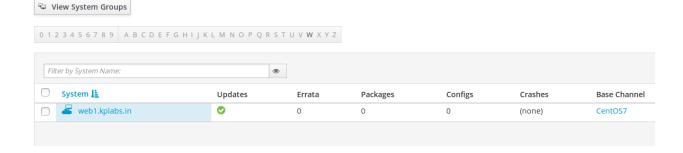


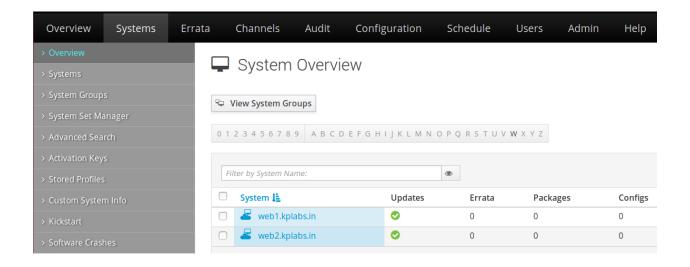
Pending Actions

The following actions have been scheduled, and are awaiting execution by one or more systems. Actions can only be archived by Note: For multi-system scheduled actions, the ability to cancel individual systems means that the number of clients mentioned in



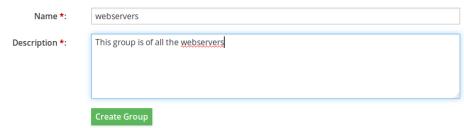


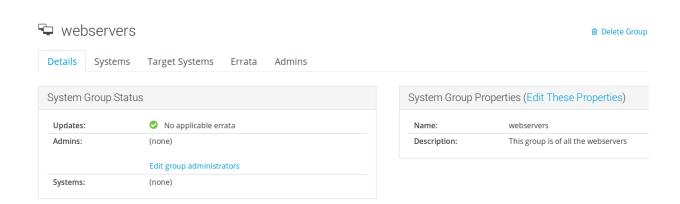


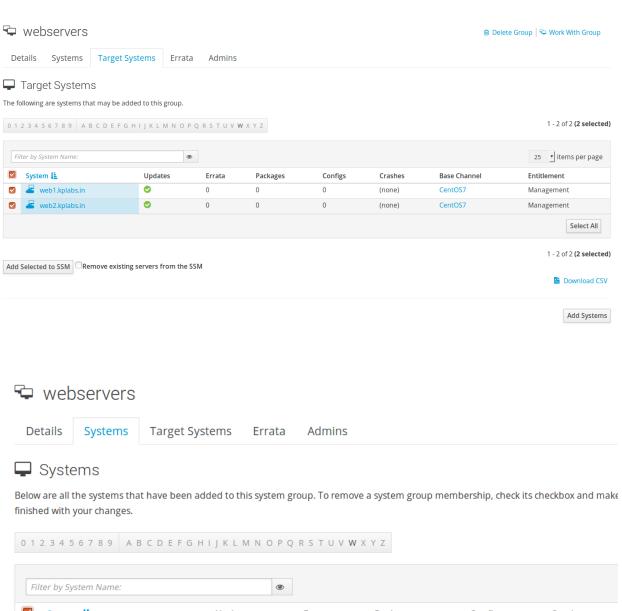


🔁 Create System Group

Create a system group using the form provided. Note that the group will be empty until systems are joined to it. Entries marked with an asterisk (*) are required.

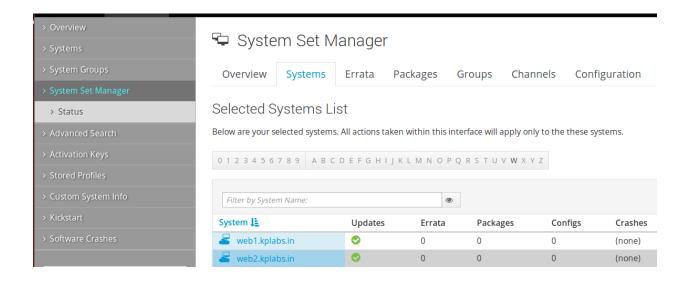




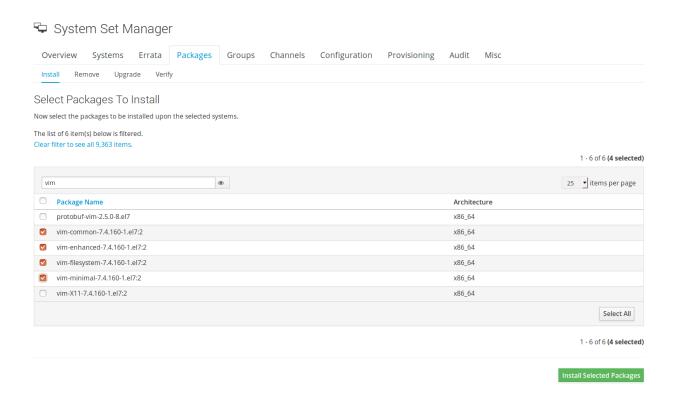




Add Selected to SSM Remove existing servers from the SSM



[root@web2 ~]# rpm -qa | grep vim
vim-minimal-7.4.160-1.el7_3.1.x86_64



System Set Manager

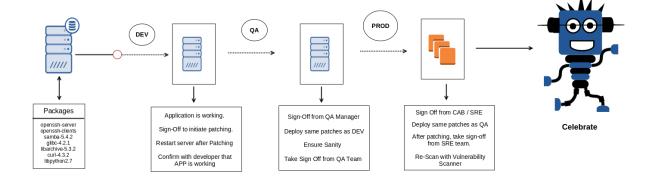


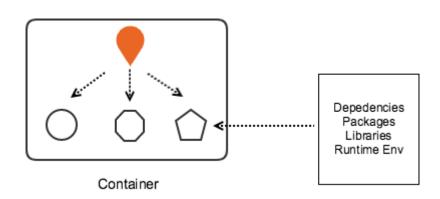
Confirm Package Install

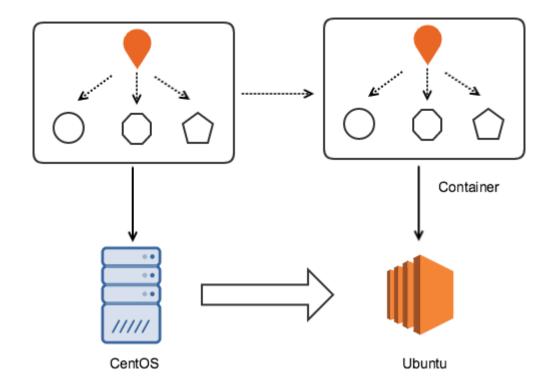
The 4 packages you have selected will be installed to the compatible selected systems, listed below:

System		
web1.kplabs.in		
web2.kplabs.in		
• Schedule no sooner than:		0
O Add to Action Chain:	new action chain	
	Confirm	

```
[root@web2 ~]# rpm -qa | grep vim
vim-common-7.4.160-1.el7.x86_64
vim-enhanced-7.4.160-1.el7.x86_64
vim-minimal-7.4.160-1.el7_3.1.x86_64
vim-filesystem-7.4.160-1.el7.x86_64
```







Stable channel

This installer is fully baked and tested. This is the best channel to use if you want a reliable platform to work with. These releases follow the Docker Engine stable releases.

On this channel, you can select whether to send usage statistics and other data.

Stable builds are released once per quarter.

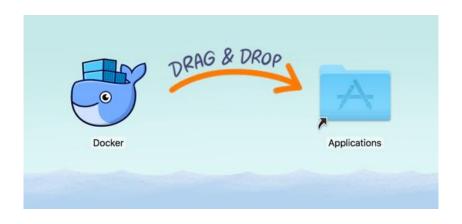
Get Docker for Mac (Stable)

Edge channel

This installer provides the latest Edge release of Docker for Mac and Engine, and typically offers new features in development. Use this channel if you want to get experimental features faster, and can weather some instability and bugs. We collect all usage data on Edge releases across the board.

Edge builds are released once per month.

Get Docker for Mac (Edge)



Docker is now up and running!

Open your favorite terminal and start typing Docker commands.

doc

\$ doc

Click on the whale in your menu bar to access repos, swarms, settings, documentation and more.



Zeals-MacBook-Pro:~ root# docker pull nginx

Using default tag: latest

latest: Pulling from library/nginx

94ed0c431eb5: Pull complete 9406c100a1c3: Pull complete aa74daafd50c: Pull complete

Digest: sha256:788fa27763db6d69ad3444e8ba72f947df9e7e163bad7c1f5614f8fd27a311c3

Status: Downloaded newer image for nginx:latest

Zeals-MBP:~ zealvora\$ docker ps CONTAINER ID IMAGE

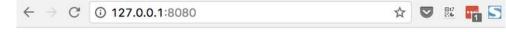
83998c3de127

COMMAND "nginx -g 'daemon ..."

CREATED 34 minutes ago

STATUS Up 34 minutes

0.0.0.0:8080->80/tcp



Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to <u>nginx.org</u>. Commercial support is available at nginx.com.

Thank you for using nginx.

Zeals-MacBook-Pro:~ root# docker run --name docker-nginx -p 8080:80 nginx

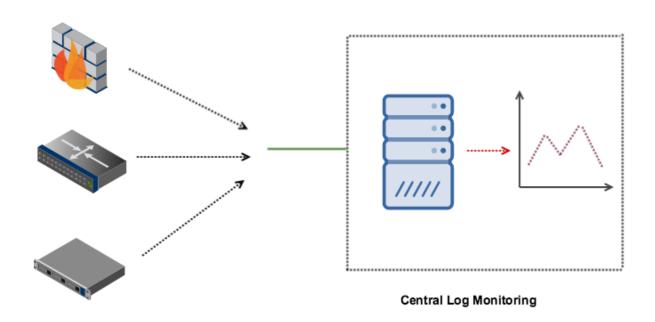
172.17.0.1 - - [12/Aug/2017:03:08:07 +0000] "GET / HTTP/1.1" 200 612 "-" "curl/7.51.0" "-"

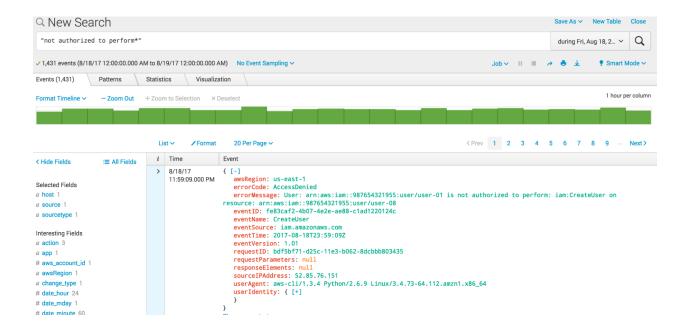
172.17.0.1 - - [12/Aug/2017:03:08:22 +0000] "GET / HTTP/1.1" 200 612 "-" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_12_4) AppleWebKit/537.3 6 (KHTML, like Gecko) Chrome/60.0.3112.90 Safari/537.36" "-"

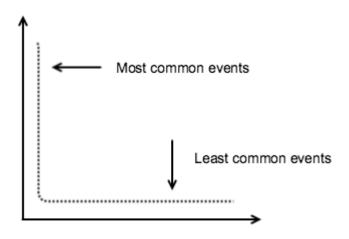
2017/08/12 03:08:22 [error] 7#7: *2 open() "/usr/share/nginx/html/favicon.ico" failed (2: No such file or directory), client: 172.17.0.1, s erver: localhost, request: "GET /favicon.ico HTTP/1.1", host: "127.0.0.1:8080", referrer: "http://127.0.0.1:8080/"

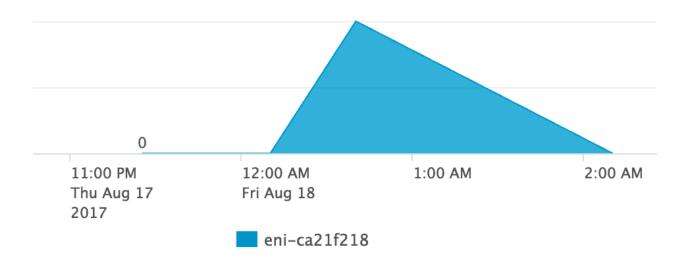
172.17.0.1 - - [12/Aug/2017:03:08:22 +0000] "GET /favicon.ico HTTP/1.1" 404 571 "http://127.0.0.1:8080/" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_12_4) AppleWebKit/537.24 (Macintosh; Intel Mac OS X 10_12_4) AppleWebKit/537.34 (Macintosh; Intel Mac OS X 10_12_4, Macintosh; Intel Macintosh; Intel Mac OS X 10_12_4, Macintosh; Intel Macintosh; Intel Macintosh; Intel Maci OS X 10_12_4) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/60.0.3112.90 Safari/537.36" "-"

Chapter 8: Security Logging and Monitoring











vpc-d07c1aa9 | Development



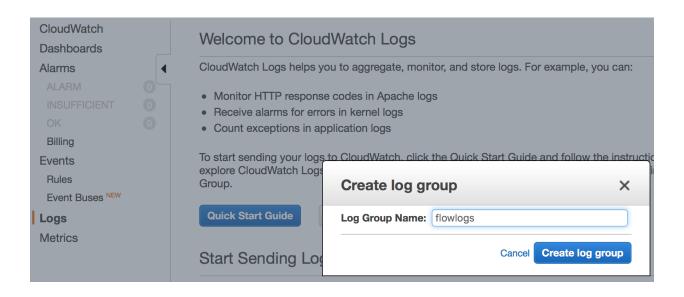
No Flow Logs found

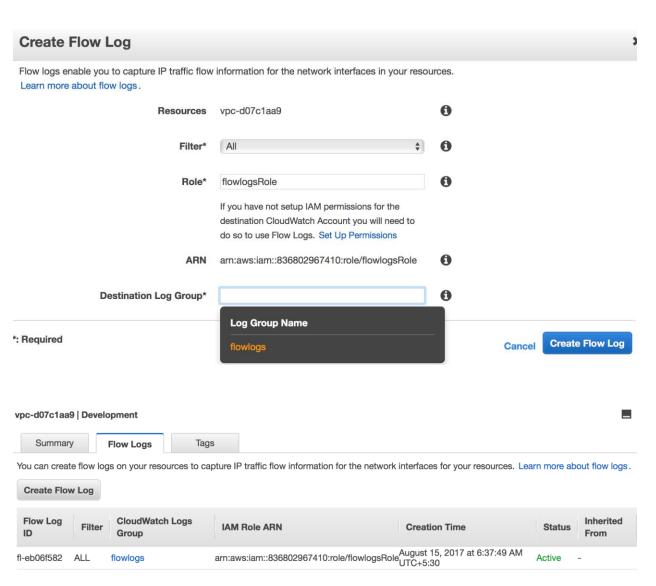
Edit

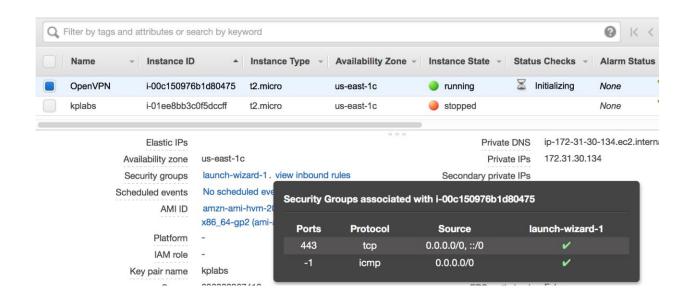
Role Summary Provides creation and write access to AWS Cloudwatch groups. IAM Role Create a new IAM Role Role Name flowlogsRole

▼ Hide Policy Document

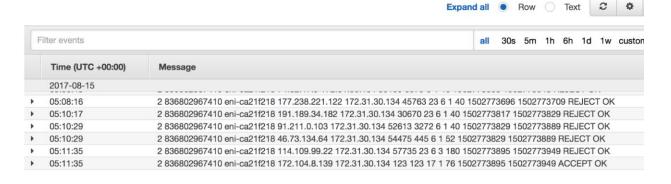
```
{
    "Statement": [
      {
          "Action": [
          "logs:CreateLogGroup",
          "logs:CreateLogStream",
          "logs:DescribeLogGroups",
          "logs:DescribeLogGroups",
          "logs:PutLogEvents"
      ],
```

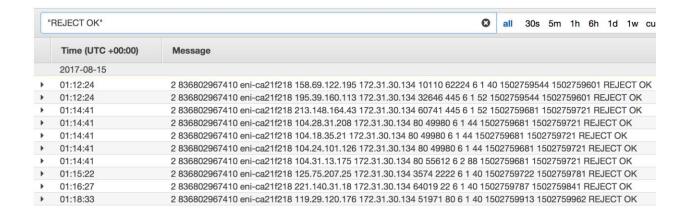


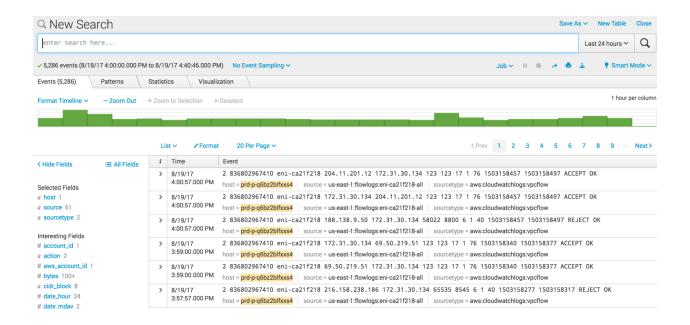




CloudWatch > Log Groups > flowlogs > eni-ca21f218-all









Top Rejected Destination Ports		То	Top Rejected Source Addresses					
	Destination Port 0	Accepts 0	Rejections 0	Ratio 0		Source IP ‡	Rejections 0	Accepts 0
1	Others	19	6	0.32	- 1	158.69.122.195	3	0
2	0	2	0	0.00	2	103.210.133.129	2	0
3	123	10	0	0.00	3	104.238.129.199	2	0
4	23	0	4		4	113.26.33.93	2	0
5	1900	0	1		5	167.114.41.149	2	0
6	2433	0	1		6	198.27.126.32	2	0
7	3339	0	1		7	220.216.90.12	2	0
8	3714	0	1		8	54.158.30.27	2	0
9	5060	0	1		9	60.169.75.138	2	0
10	636	0	1		10	104.236.155.201	1	0

Config Dashboard





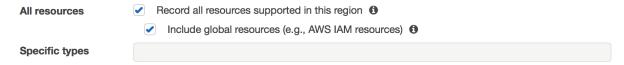


Settings

Specify the types of AWS resources you want AWS Config to record, the Amazon S3 bucket to which it sends files, and the Amazon S notifications. Review the pricing page before you start.

Resource types to record

Select the types of AWS resources for which you want AWS Config to record configuration changes. By default, AWS Config records all supported resources. You can also choose to record configuration changes for supported global resources in this region.

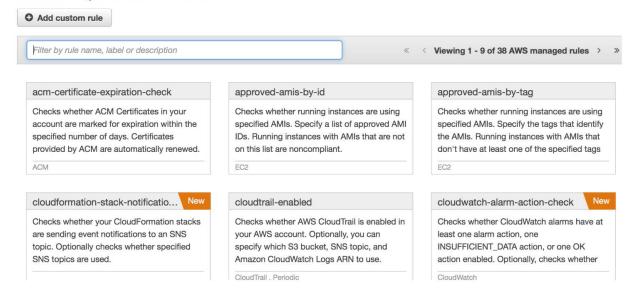


Amazon S3 bucket*

Your bucket receives	s configuration history and configuration snapshot files, which contain details for the resources
Create a bud	ket
Choose a bu	cket from your account
Choose a bu	cket from another account 1
Bucket name*	kplabs.config
Amazon SNS to	
Stream configu	ration changes and notifications to an Amazon SNS topic.
AWS Config rol	e*
Grant AWS Config ro Amazon S3 and Ama	ead-only access to your AWS resources so that it can record configuration information, and grazon SNS.
Create a role	
Choose a rol	e from your account
Role name*	onfig-role-us-east-1

Add rule

Add rules to define the desired configuration settings of your AWS resources. Customize any of the following rules to suit your needs, or add a custom rule. To add a custom rule, you must create an AWS Lambda function for the rule.



Config Dashboard

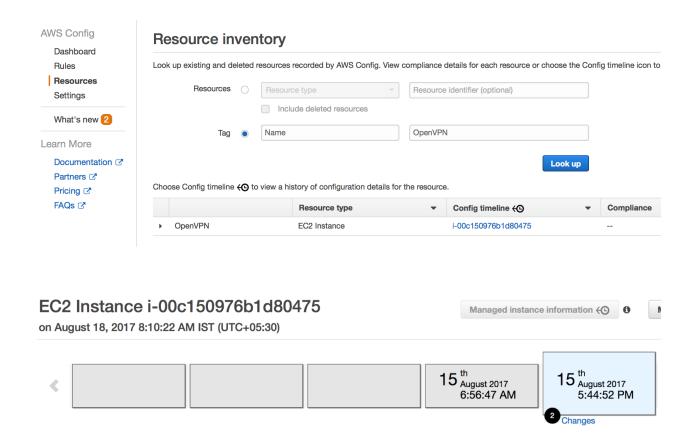


Status 2



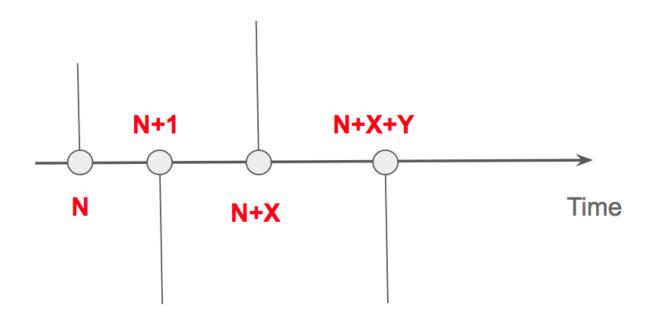
Noncompliant rules Rule name Compliance cloudtrail-enabled 1 noncompliant resource(s)

Rule name	•	Compliance	Edit rule
cloudtrail-enabled		1 noncompliant resource(s)	
iam-password-policy		Compliant	Ø.
root-mfa-check		Compliant	
restrict-common-ports		Compliant	Ø.
restrict-ssh		Compliant	Ø.

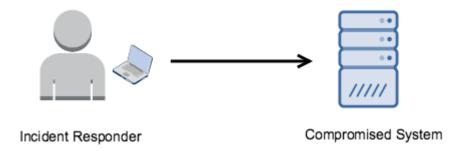


Configuration Changes 1

Field	From	То
Configuration.NetworkInterfaces.0		<pre>▼ Object networkInterfaceId: "eni-3ac982ef" subnetId: "subnet-996b3dd1" vpcId: "vpc-d07claa9" description: "test" ownerId: "836802967410" status: "in-use" macAddress: "0a:93:d5:fe:4a:d2" privateIpAddress: "172.31.30.161" privateDnsName: "ip-172-31-30-161.ec2.internal" sourceDestCheck: true ▼ groups: Array [1] ▼ 0: Object groupName: "default" groupId: "sg-81ce97f0" ▼ attachmentId: "eni-attach-4b9340ac" deviceIndex: 1 status: "attached" attachTime: "2017-08-15T12:07:12.0002" deleteOnTermination: false ▼ privateIpAddresses: Array [1] ▼ 0: Object privateIpAddress: "172.31.30.161" privateIpAddress: "172.31.30.161" privateIpAddress: "ip-172-31-30-161.ec2.internal" primary: true ▼ ipv6Addresses: Array [0] []</pre>



Chapter 9: First Responder



Identify	Encrypt	Monitor	BGV	Educate
----------	---------	---------	-----	---------