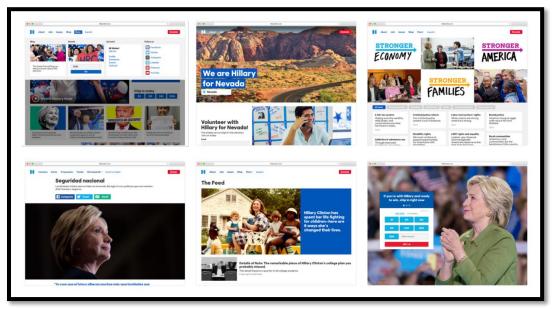
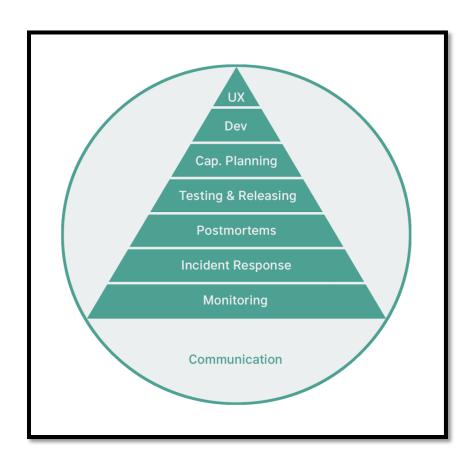
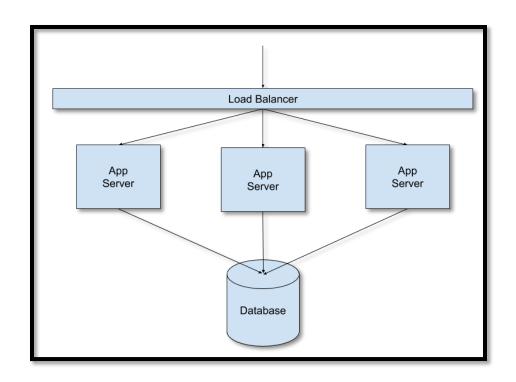
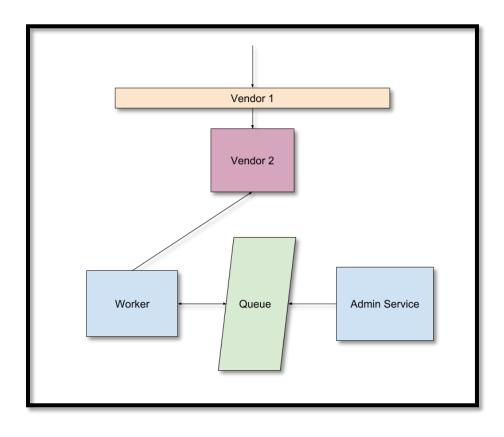
Chapter 1: What is Reinforcement Learning?

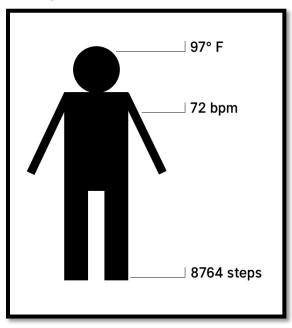


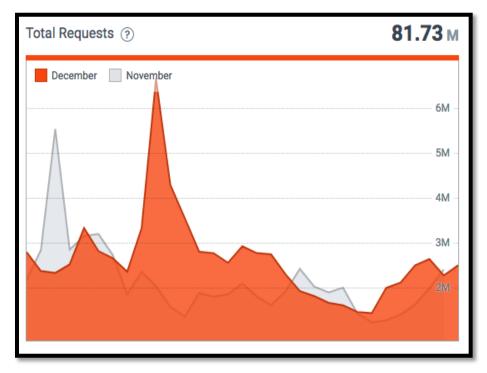


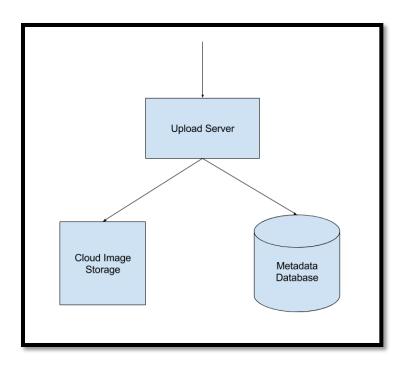




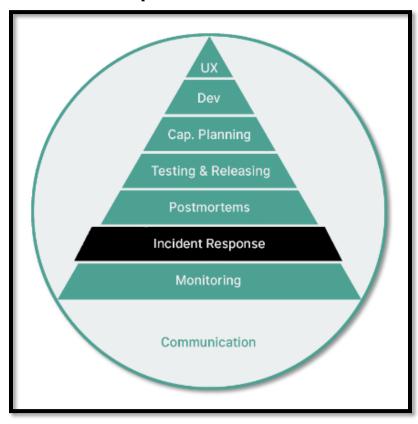
Chapter 2: Monitoring

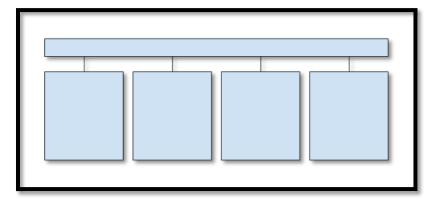


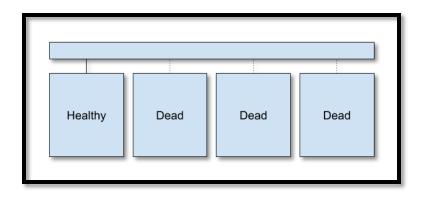


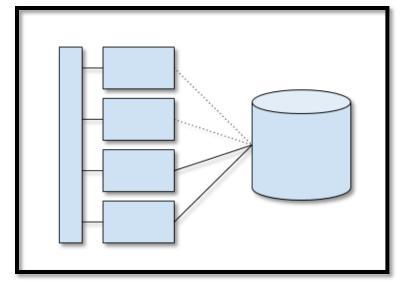


Chapter 3: Incident Response



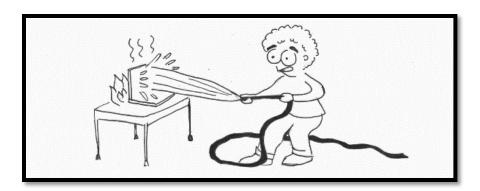


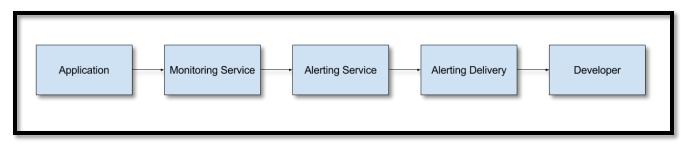












				February										
S 1/28	M 1/29	T 1/30	W 1/31	T 2/1	F2/2	S 2/3	S 2/4	M 2/5	T 2/6	W 2/7	T 2/8	F 2/9	S 2/10	
	User 2				User 3						User 4			
0.1/0.0	M 1/20	T1/70	141 9 (29	T0#	E 0 / 0	0.0/7	0.0/4	M 2/5	T 2/4	W 2/2	T 2 (0	F 2 / 0	62/10	
S 1/28	M 1/29 Nathaniel	T 1/30	W 1/31	T 2/1	F 2/2	S 2/3	S 2/4	M 2/5	T 2/6	W 2/7	T 2/8	F 2/9	S 2/10	

				February										
S 1/28	M 1/29	T 1/30	W 1/31	T 2/1	F 2/2	S 2/3	S 2/4	M 2/5	T 2/6	W 2/7	T 2/8	F 2/9	S 2/10	
<	Nathan User 3				User 2				User 4				User 3	>
						-					-	- 1	-	
S 1/28	M 1/29	T 1/30	W 1/31	T 2/1	F 2/2	S 2/3	S 2/4	M 2/5	T 2/6	W 2/7	T 2/8	F 2/9	S 2/10	
<	User 2 User 4					User 3			User 5				User 4	>

Elevated 500 Errors.

Incident Report for imgix

This incident has been resolved. Resolved

Posted about 22 hours ago. Jan 27, 2018 - 13:53 PST

Monitoring Reports of 500 Errors has been recovered and we will

> continue to monitor the situation as it progresses. Posted about 23 hours ago. Jan 27, 2018 - 13:33 PST

We are currently investigating reports of elevated error Investigating

response rates. We will update once we obtain further

information.

Posted about 23 hours ago. Jan 27, 2018 - 13:28 PST



nat.welch 15:13

Just got paged about field of vision being down since 15:07, verified all pages on fieldofvision.org are down.

Logs in the node servers are showing 500s when talking to our graphql servers

Oh fun, graphql servers can't resolve the elastic search cluster.

Elastic Search cluster seems to be up. I can query the search endpoint and cluster status is green.

Oh, looks like DNS record for elasticsearch is empty.

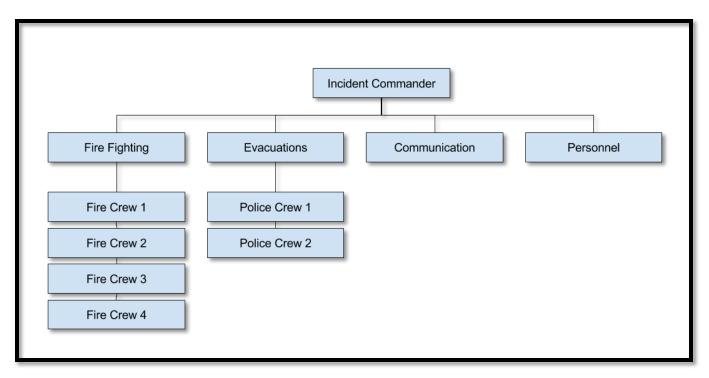
Readding the CNAME to the load balancer.

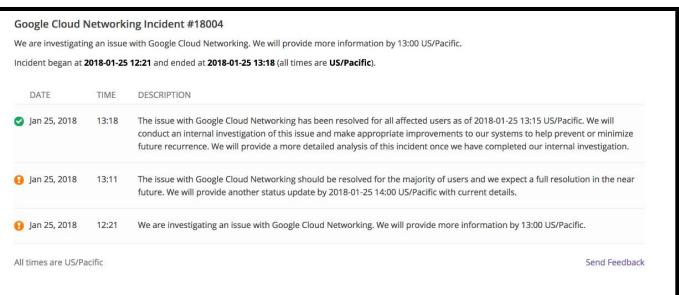
TTL on the DNS is five seconds... this should start working...

Hmm, graphql servers are still not talking to es... I'm going to kick one and see what happens.

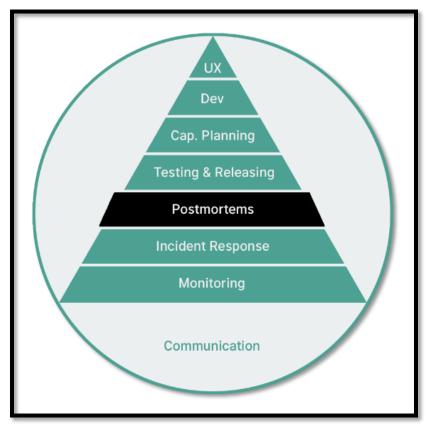
Restarted graphql server is up, and looks like it's talking to ES again. Going to restart the others.

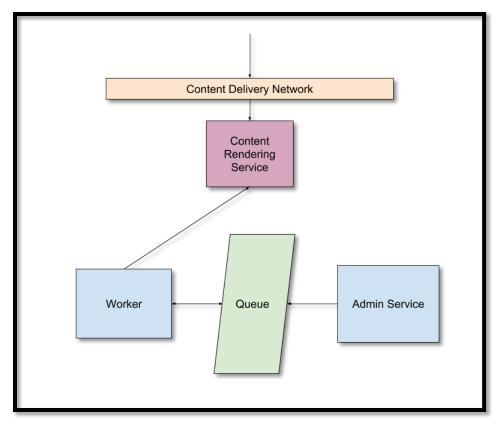
Pingdom just reported fieldofvision.org back up. Incident is over, but going to go look as to why the DNS record disappeared.

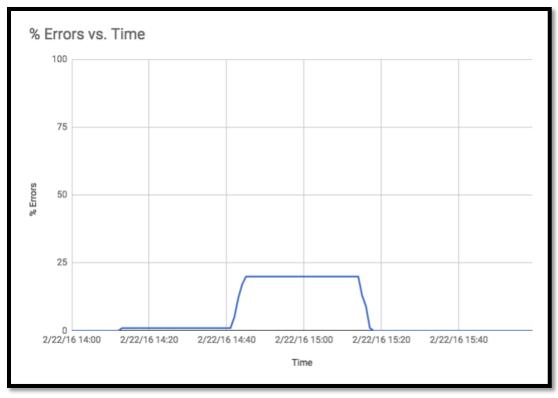




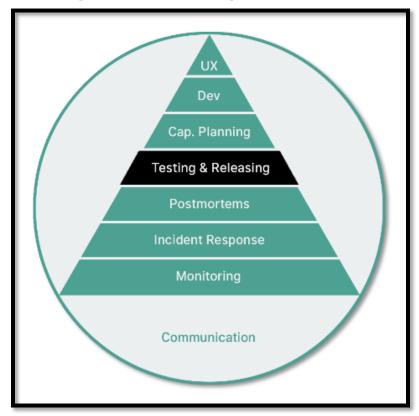
Chapter 4: Postmortems

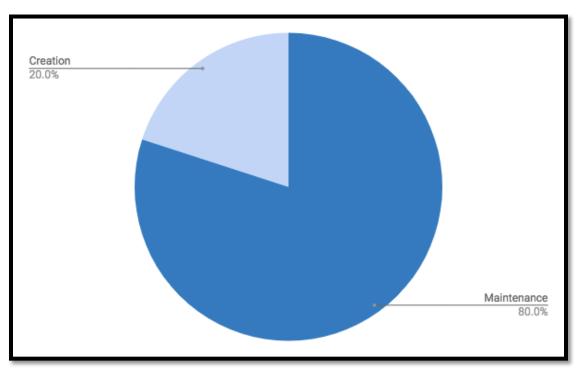


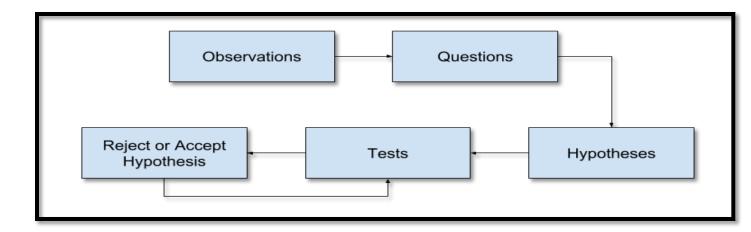




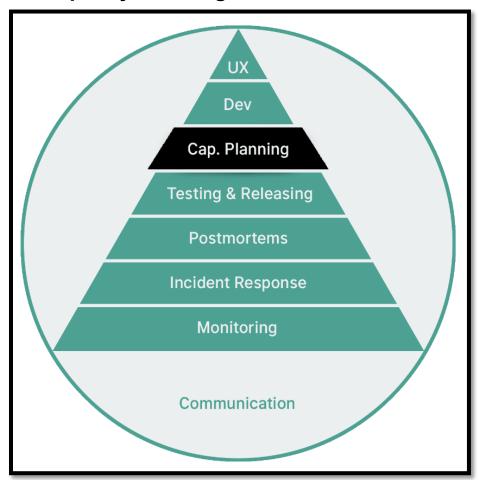
Chapter 5: Testing and Releasing

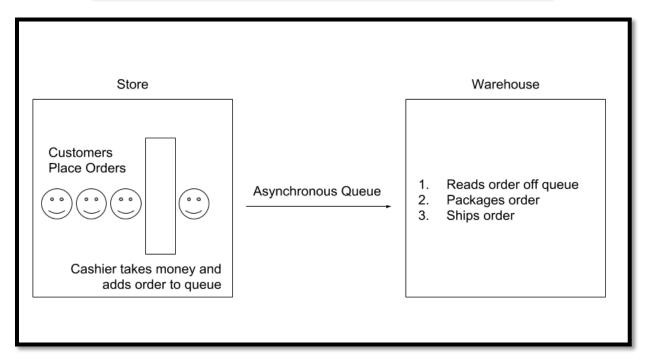


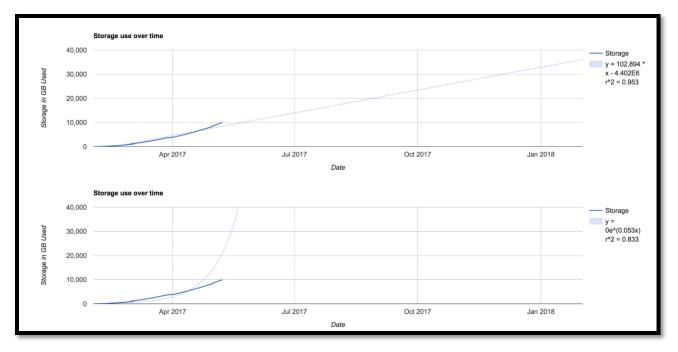


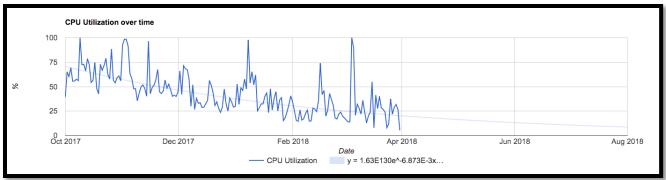


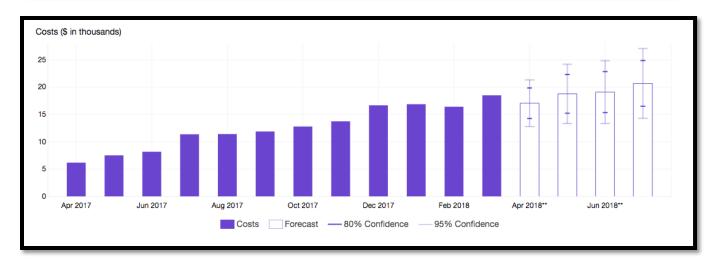
Chapter 6: Capacity Planning

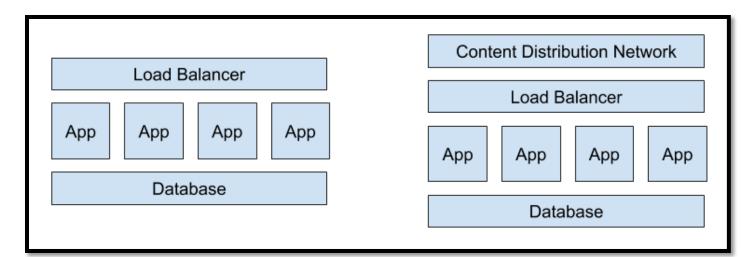


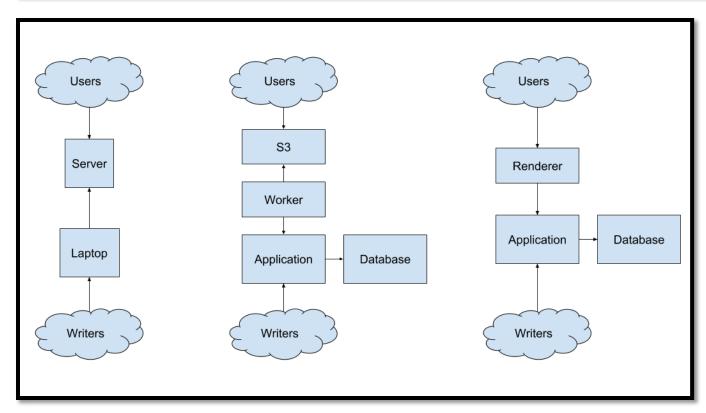




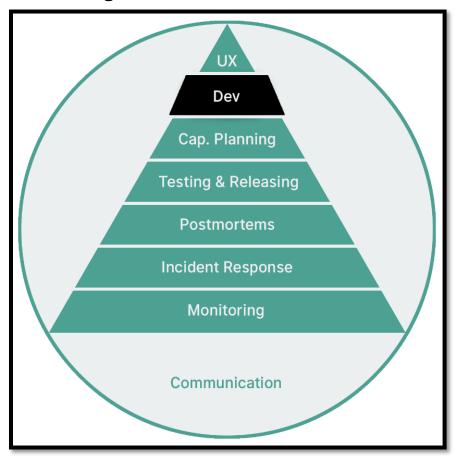


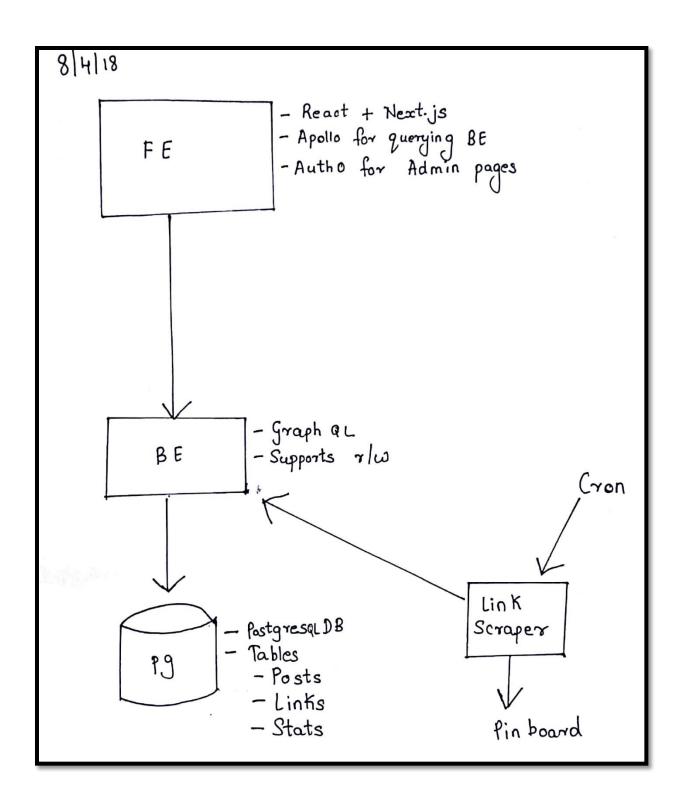




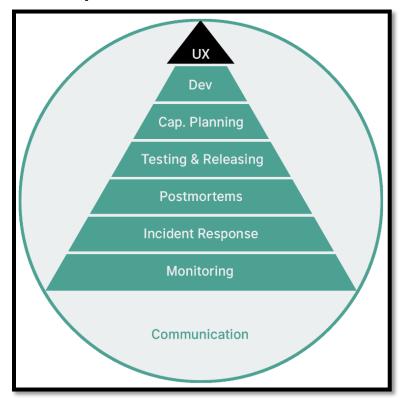


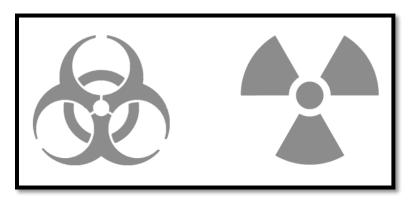
Chapter 7: Building Tools

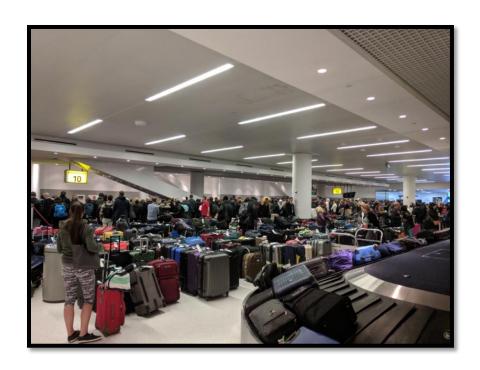




Chapter 8: User Experience







1. nat@Tokyo: ~/Projects

[Wed Aug 29 21:17:46]

0 0 0

[nat@Tokyo ~/Projects]\$ terraform --help

Usage: terraform [-version] [-help] <command> [args]

The available commands for execution are listed below. The most common, useful commands are shown first, followed by less common or more advanced commands. If you're just getting started with Terraform, stick with the common commands. For the other commands, please read the help and docs before usage.

Common commands:

apply Builds or changes infrastructure

console Interactive console for Terraform interpolations

destroy Destroy Terraform-managed infrastructure

env Workspace management

fmt Rewrites config files to canonical format

get Download and install modules for the configuration

graph Create a visual graph of Terraform resources import Import existing infrastructure into Terraform init Initialize a Terraform working directory

output Read an output from a state file plan Generate and show an execution plan

providers Prints a tree of the providers used in the configuration

push Upload this Terraform module to Atlas to run refresh Update local state file against real resources

show Inspect Terraform state or plan

taint Manually mark a resource for recreation untaint Manually unmark a resource as tainted

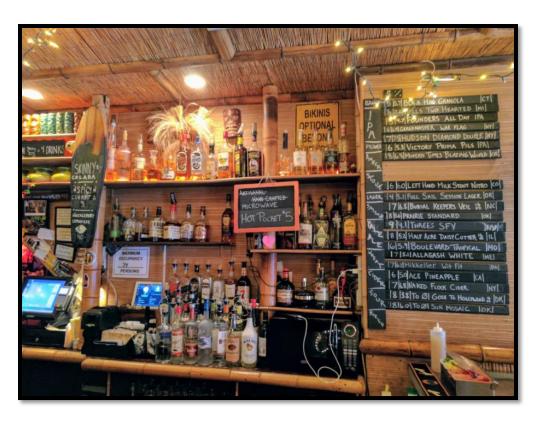
validate Validates the Terraform files version Prints the Terraform version

workspace Workspace management

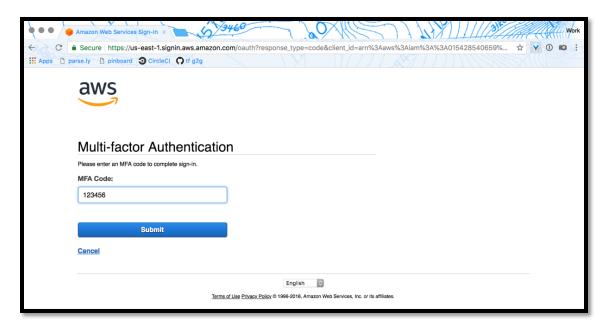
All other commands:

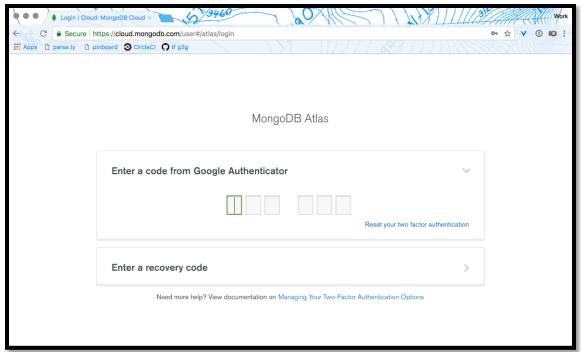
debug Debug output management (experimental) force-unlock Manually unlock the terraform state

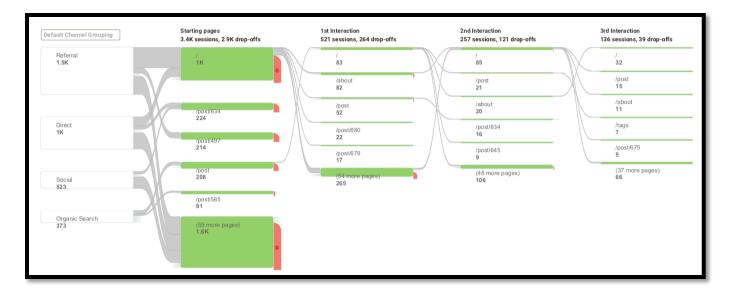
state Advanced state management



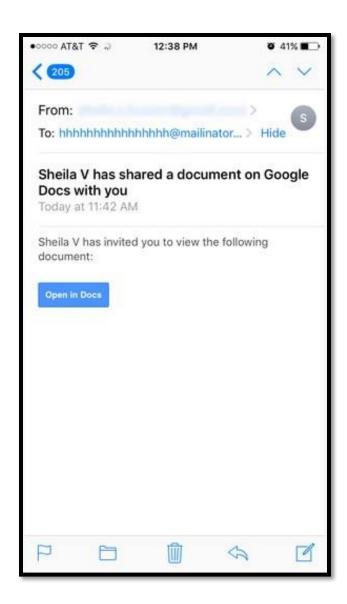




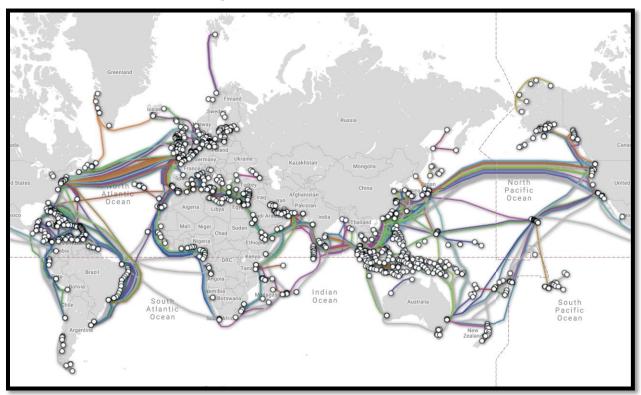


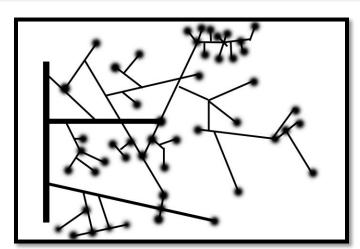


	Incidents				Breaches			
	Large	Small	Unknown	Total	Large	Small	Unknown	Tota
Accommodation (72)	40	296	32	368	31	292	15	338
Administrative (56)	7	15	11	33	5	12	1	18
Agriculture (11)	1	0	4	5	0	0	0	0
Construction (23)	2	11	10	23	0	5	5	10
Education (61)	42	26	224	292	30	15	56	101
Entertainment (71)	6	19	7,163	7,188	5	17	11	33
Financial (52)	74	74	450	598	39	52	55	146
Healthcare (62)	165	152	433	750	99	112	325	536
Information (51)	54	76	910	1,040	29	50	30	109
Management (55)	1	0	1	2	0	0	0	C
Manufacturing (31–33)	375	21	140	536	28	15	28	71
Mining (21)	3	3	20	26	3	3	0	6
Other Services (81)	5	11	46	62	2	7	26	35
Professional (54)	158	59	323	540	24	39	69	132
Public (92)	22,429	51	308	22,788	111	31	162	304
Real Estate (53)	2	5	24	31	2	4	14	20
Retail (44-45)	56	111	150	317	38	86	45	169
Trade (42)	13	5	13	31	6	4	2	12
Transportation (48-49)	15	9	35	59	7	6	5	18
Utilities (22)	14	8	24	46	4	3	11	18
Unknown	1,043	9	17,521	18,573	82	3	55	140
Total	24,505	961	27,842	53,308	545	756	915	2,216

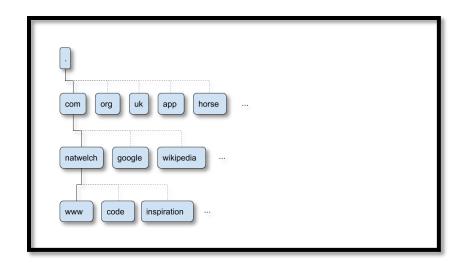


Chapter 9: Networking Foundations

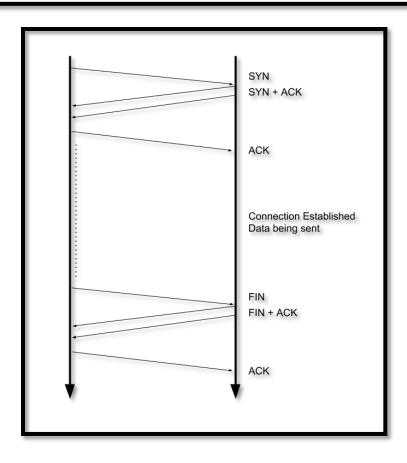




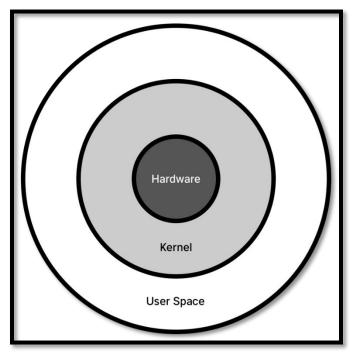
natwelch.com natwelch.co.uk natwelch.app







Chapter 10: Linux and Cloud Foundations



0 0 0		1. Shell
System call	Kernel	Notes
_llseek(2)	1.2	
_newselect(2)	2.0	
_sysctl(2)	2.0	6
accept(2) accept4(2)	2.0 2.6.28	See notes on socketcall(2)
access(2)	1.0	
acct(2)	1.0	
add_key(2)	2.6.10 1.0	
adjtimex(2) alarm(2)	1.0	
alloc_hugepages(2)	2.5.36	Removed in 2.5.44
bdflush(2)	1.2	Deprecated (does nothing)
		since 2.6
bind(2)	2.0	See notes on socketcall(2)
bpf (2) brk (2)	3.18 1.0	
cacheflush(2)	1.2	Not on x86
capget(2)	2.2	NOT OIL XOO
capset(2)	2.2	
chdir(2)	1.0	
chmod(2)	1.0	
chown(2)	2.2	See chown(2) for version details
chown32(2)	2.4	version details
chroot(2)	1.0	
clock_adjtime(2)	2.6.39	
clock_getres(2)	2.6	
clock_gettime(2)	2.6	
<pre>clock_nanosleep(2) clock_settime(2)</pre>	2.6 2.6	
clone(2)	1.0	
close(2)	1.0	
connect(2)	2.0	See notes on socketcall(2)
copy_file_range(2)	4.5	
creat(2) create_module(2)	1.0 1.0	Removed in 2.6
delete_module(2)	1.0	Reilloved III 2:0
dup(2)	1.0	
dup2(2)	1.0	
dup3(2)	2.6.27	
epoll_create(2)	2.6 2.6.27	
<pre>epoll_create1(2) epoll_ct1(2)</pre>	2.6.27	
epoll_pwait(2)	2.6.19	
epoll_wait(2)	2.6	
eventfd(2)	2.6.22	
eventfd2(2)	2.6.27	
execve(2) execveat(2)	1.0 3.19	
exit(2)	1.0	
exit_group(2)	2.6	
faccessat(2)	2.6.16	
fadvise64(2)	2.6	
<pre>fadvise64_64(2) fallocate(2)</pre>	2.6 2.6.23	
fanotify_init(2)	2.6.37	
<pre>fanotify_mark(2)</pre>	2.6.37	
fchdir(2)	1.0	
fchmod(2)	1.0	
fchmodat(2) Manual page syscalls(2) line 5	2.6.16	or help or a to quit)
mandat page 3yacatta(2) time :	- (press ii le	in the or q to quity

● ● 1. Shell

top - 22:48:18 up 5 days, 6:59, 1 user, load average: 0.21, 0.09, 0.08
Tasks: 140 total, 3 running, 85 sleeping, 0 stopped, 0 zombie
%Cpu(s): 1.3 us, 0.8 sy, 0.0 ni, 97.7 id, 0.1 wa, 0.0 hi, 0.1 si, 0.0 st
KiB Mem: 16296240 total, 167460 free, 296972 used, 15831808 buff/cache
KiB Swap: 0 total, 0 free, 0 used. 15652524 avail Mem

DID	HCED	DD	NIT	VIDI	DEC	CHD C	o.CDII	0.MEM	TIME	COMMAND
12107	USER	PR 20	NI 0	VIRT 57576	7364	SHR S 5584 R	%CPU 6.0	9.0	9:52.56	COMMAND
12107		20	8	36260	3216	1924 R	2.0	0.0	4:37.64	
	root	20	0	30200	0	0 I	0.3	0.0		rcu_sched
	root	20	ø	303376	19788	8148 S	0.3	0.1		fail2ban-server
1110		20	ø	1146664	20816	11476 S	0.3	0.1		docker-containe
18525		20	0	0	0	0 I	0.3	0.0		kworker/u8:2
	root	20	ő	78108	7544	4900 S	0.0	0.0		systemd
	root	20	0	0	0	0 S	0.0	0.0		kthreadd
	root	0	-20	0	0	0 I	0.0	0.0		kworker/0:0H
6	root	0	-20	0	0	0 I	0.0	0.0	0:00.00	mm_percpu_wq
7	root	20	0	0	0	0 S	0.0	0.0	0:00.47	ksoftirqd/0
9	root	20	0	0	0	0 I	0.0	0.0	0:00.00	rcu_bh
10	root	rt	0	0	0	0 S	0.0	0.0	0:00.64	migration/0
	root	rt	0	0	0	0 S	0.0	0.0		watchdog/0
	root	20	0	0	0	0 S	0.0	0.0		cpuhp/0
13	root	20	0	0	0	0 5	0.0	0.0		cpuhp/1
	root	rt	0	0	0	0 5	0.0	0.0		watchdog/1
	root	rt	0	0	0	0 S	0.0	0.0		migration/1
	root	20	0	0	0	0 S	0.0	0.0		ksoftirqd/1
	root	0	-20	0	0	0 I	0.0	0.0		kworker/1:0H
	root	20	0	0	0	0 S 0 S	0.0	0.0		cpuhp/2
	root	rt	0	0	0	0 S 0 S	0.0	0.0		watchdog/2 migration/2
	root	rt 20	0	0	0	05	0.0 0.0	0.0 0.0		migration/2 ksoftirgd/2
_	root	0	-20	0	ø	0 I	0.0	0.0		kworker/2:0H
	root	20	-20	0	ø	0 S	0.0	0.0		cpuhp/3
26	root	rt	ø	ø	ő	0 S	0.0	0.0		watchdog/3
	root	rt	ő	ő	ő	0 S	0.0	0.0		migration/3
	root	20	0	0	0	0 S	0.0	0.0		ksoftirgd/3
	root	0	-20	0	0	0 I	0.0	0.0		kworker/3:0H
31	root	20	0	0	0	0 S	0.0	0.0	0:00.00	kdevtmpfs
32	root	0	-20	0	0	0 I	0.0	0.0	0:00.00	netns
33	root	20	0	0	0	0 S	0.0	0.0	0:00.00	rcu_tasks_kthre
34	root	20	0	0	0	0 S	0.0	0.0	0:00.00	kauditd
37	root	20	0	0	0	0 S	0.0	0.0	0:00.26	khungtaskd
38	root	20	0	0	0	0 S	0.0	0.0		oom_reaper
	root	0	-20	0	0	0 I	0.0	0.0		writeback
40	root	20	0	0	0	0 S	0.0	0.0		kcompactd0
	root	25	5	0	0	0 S	0.0	0.0	0:00.00	
	root	39	19	0	0	0 S	0.0	0.0		khugepaged
	root	0	-20	0	0	0 I	0.0	0.0	0:00.00	**
	root	0	-20	0	0	0 I	0.0	0.0		kintegrityd
45	root	0	-20 -20	0	0	0 I 0 I	0.0	0.0		kblockd
48	root	0		0	0	0 I 0 I	0.0	0.0		ata_sff
49	root		-20 -20	0	0	0 I	0.0 0.0	0.0 0.0	0:00.00	ma edac-poller
. 50	7001	U	-20	0	U	0 1	0.0	0.0	0:00.00	edac-pot ter



