@WILLHITBET: Love Failure & Embrace The Fall Out

William HILL

THE HOME OF BETTING

In numbers

Dollars
Cents
450

3,000,000,000

1,500,000
O2-UK
15:39
William Hill
Deposit
£87.18
A-Z
Featured
ACCA INSURANCE
FOOTBALL DAILY MATCH LIST
GET YOUR MONEY BACK AS A FREE BET IF 1 TEAM LETS YOU DOWN IN A 6 OR MORE TEAM ACCUMULATOR
*PRE-MATCH 90 MINS BETTING ONLY
View All Matches
In Play
Highlights
Top Bets
Next Off
View All In-Play
Football
BATE Borisov U19 vs Roma U19 | +21 bets
83:18
0 - 0
(1) 12/1
(x) 4/11
(2) 5/2
Arsenal U19 vs Olympiakos CFP Piraeus U19 | +20 bets
84:29
3 - 2
(1) 1/16
(x) 7/1
(2) 35/1
Barcelona U19 vs Bayer 04 Leverkusen U19 | +82 bets
40:07
0 - 0
(1) 8/13
(2) 5/1
SK Klatovy 1898
09:26
16/1
(2) 1/66
+11 bets
+117 bets
Slavoj
ACCA INSURANCE
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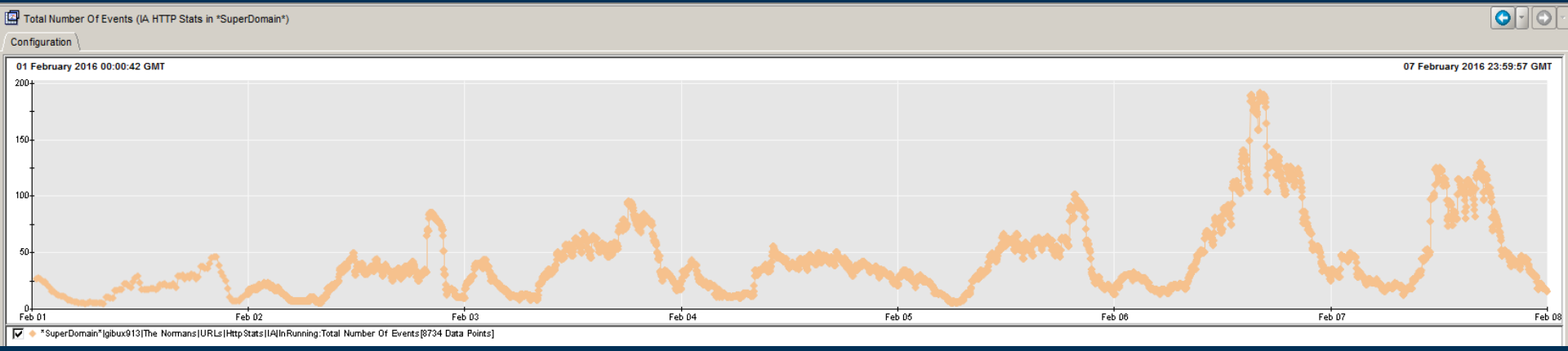
SK Klatovy 1898
09:26
(1)
16/1
(2) 1/66
+117 bets

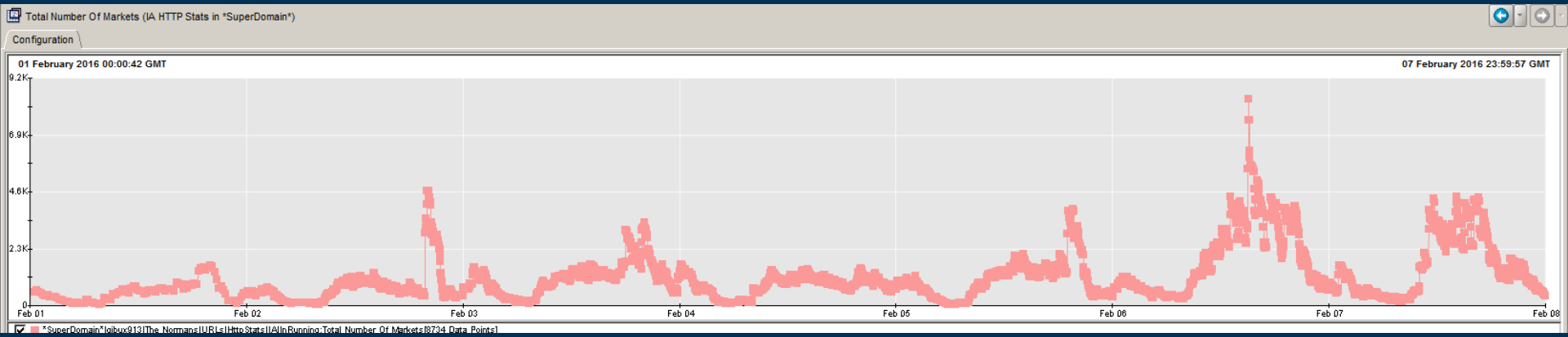
The Sporting Calendar

GRAND NATIONAL
CRABBIE'S GRAND NATIONAL
11 APRIL 2015
JOIN NOW

CHELTENHAM FESTIVAL
JOIN NOW

william hill


Total Number Of Events (IA HTTP Stats in *SuperDomain*)
Configuration
01 February 2016 00:00:42 GMT
07 February 2016 23:59:57 GMT
200
150
100
50
0
Feb 01
Feb 02
Feb 03
Feb 04
Feb 05
Feb 06
Feb 07
Feb 08
SuperDomain|gibux913|The Normans|URLs|Http Stats|IA|InRunning:Total Number Of Events[8734 Data Points]


Total Number Of Markets (IA HTTP Stats in *SuperDomain*)
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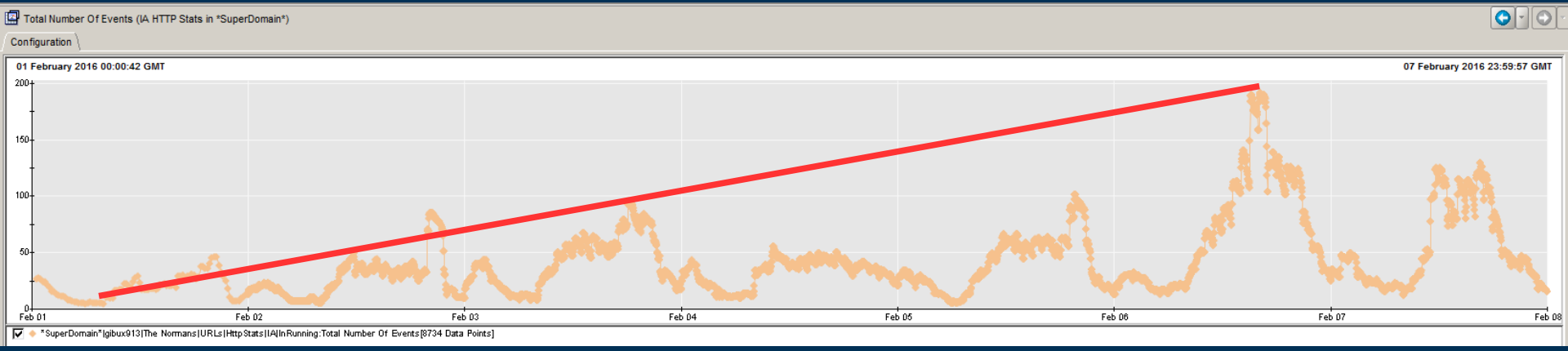
07 February 2016 23:59:57 GMT
9.2K
6.9K
4.6K
2.3K
0
Feb 01
Feb 02
Feb 03
Feb 04
Feb 05
Feb 06
Feb 07
Feb 08
SuperDomain|gibux913|The Normans|URLs|Http Stats|IA|InRunning:Total Number Of Markets[8734 Data Points]


Total Number Of Events (IA HTTP Stats in *SuperDomain*)
Configuration
01 February 2016 00:00:42 GMT
07 February 2016 23:59:57 GMT
200
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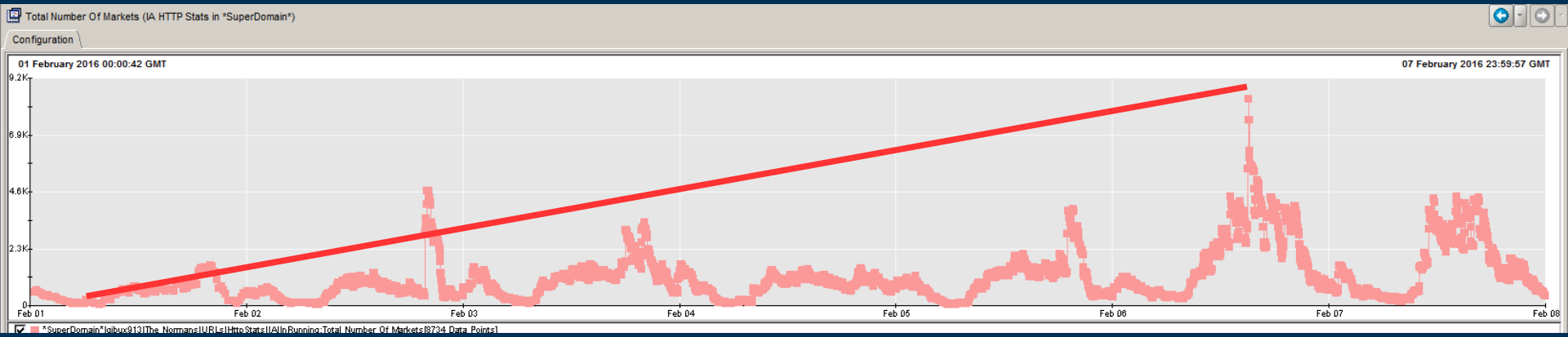
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Feb 06
Feb 07
Feb 08
SuperDomain|gibux913|The Normans|URLs|Http Stats|IA|InRunning:Total Number Of Markets[8734 Data Points]

William HILL

Log In

CHELTENHAM FESTIVAL 2015

MONEY BACK AS A FREE BET

IF YOUR WIN OR E/W BET DOESN'T COME IN SUPREME NOVICES', 1:30PM 10TH MARCH

AVAILABLE TO ALL CUSTOMERS – UP TO £25 FREE BET

JOIN US

* Wagering and Terms Apply

10TH MAR 2015

SUPREME NOVICES HURDLE

AMINABAD	50/1
LASER HAWK	66/1
BENTELIMAR	25/1
SILVER CONCORDE	25/1
DABADIYAN	40/1
ALVISIO VILLE	16/1
ALL HELL LET LOOSE	50/1
BLACK HERCULES	25/1

1 SIGN UP
REGISTER & USE PROMO CODE: C30

2 BET
PLACE A £10 SPORTS BET

3 ENJOY
WE WILL CREDIT YOUR ACCOUNT WITH 3 X £10 FREE BETS

025
026
027
049

Stuff breaks

A problem has been detected and Windows has been shut down to prevent damage
to your computer.

The problem seems to be caused by the following file: SPCMDCON.SYS

PAGE_FAULT_IN_NONPAGED_AREA

If this is the first time you've seen this Stop error screen,
restart your computer. If this screen appears again, follow
these steps:

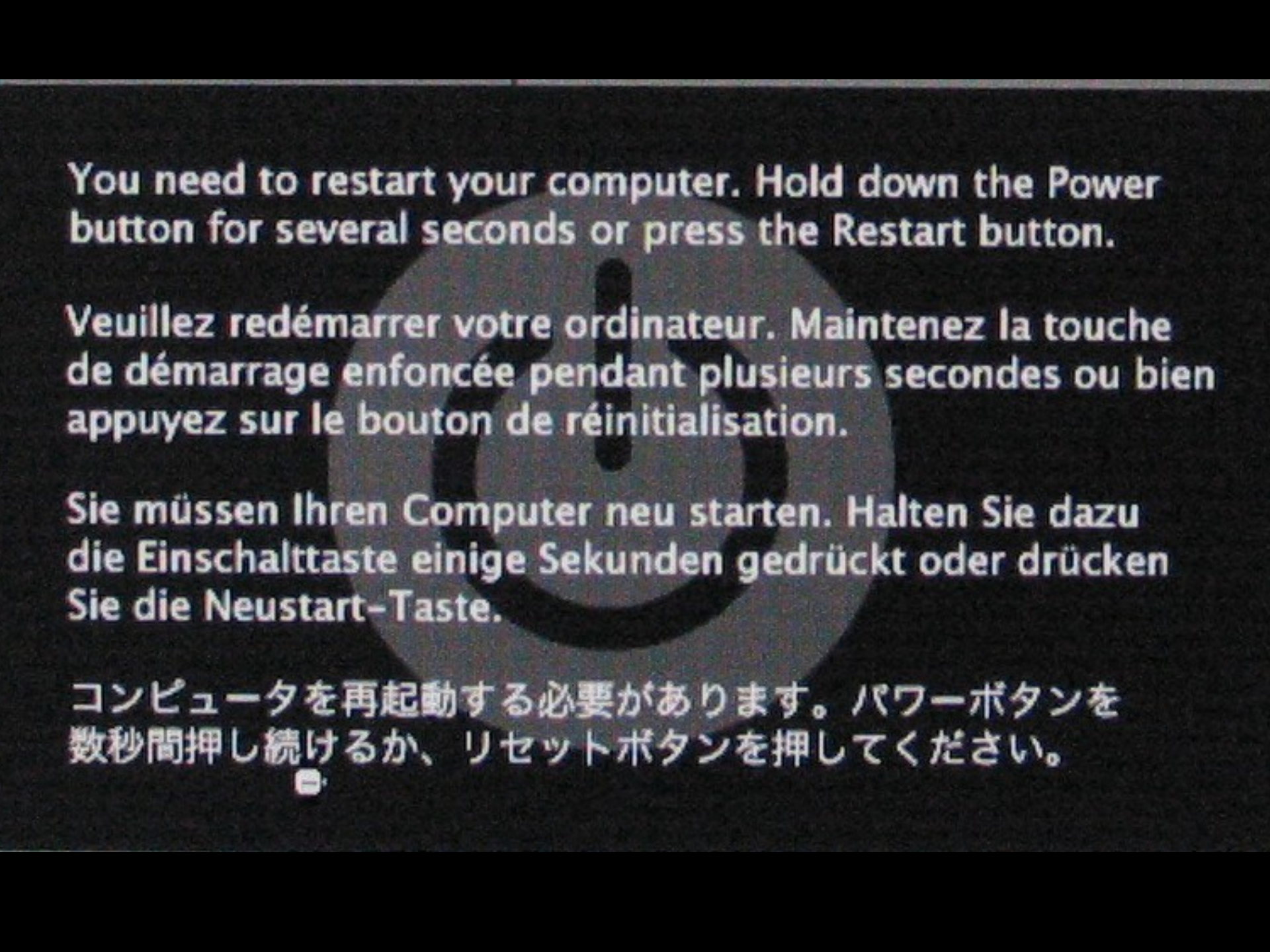
Check to make sure any new hardware or software is properly installed.
If this is a new installation, ask your hardware or software manufacturer
for any Windows updates you might need.

If problems continue, disable or remove any newly installed hardware
or software. Disable BIOS memory options such as caching or shadowing.
If you need to use Safe Mode to remove or disable components, restart
your computer, press F8 to select Advanced Startup Options, and then
select Safe Mode.

Technical information:

*** STOP: 0x00000050 (0xFD3094C2,0x00000001,0xFBFE7617,0x00000000)

*** SPCMDCON.SYS - Address FBFE7617 base at FBFE5000, DateStamp 3d6dd67c

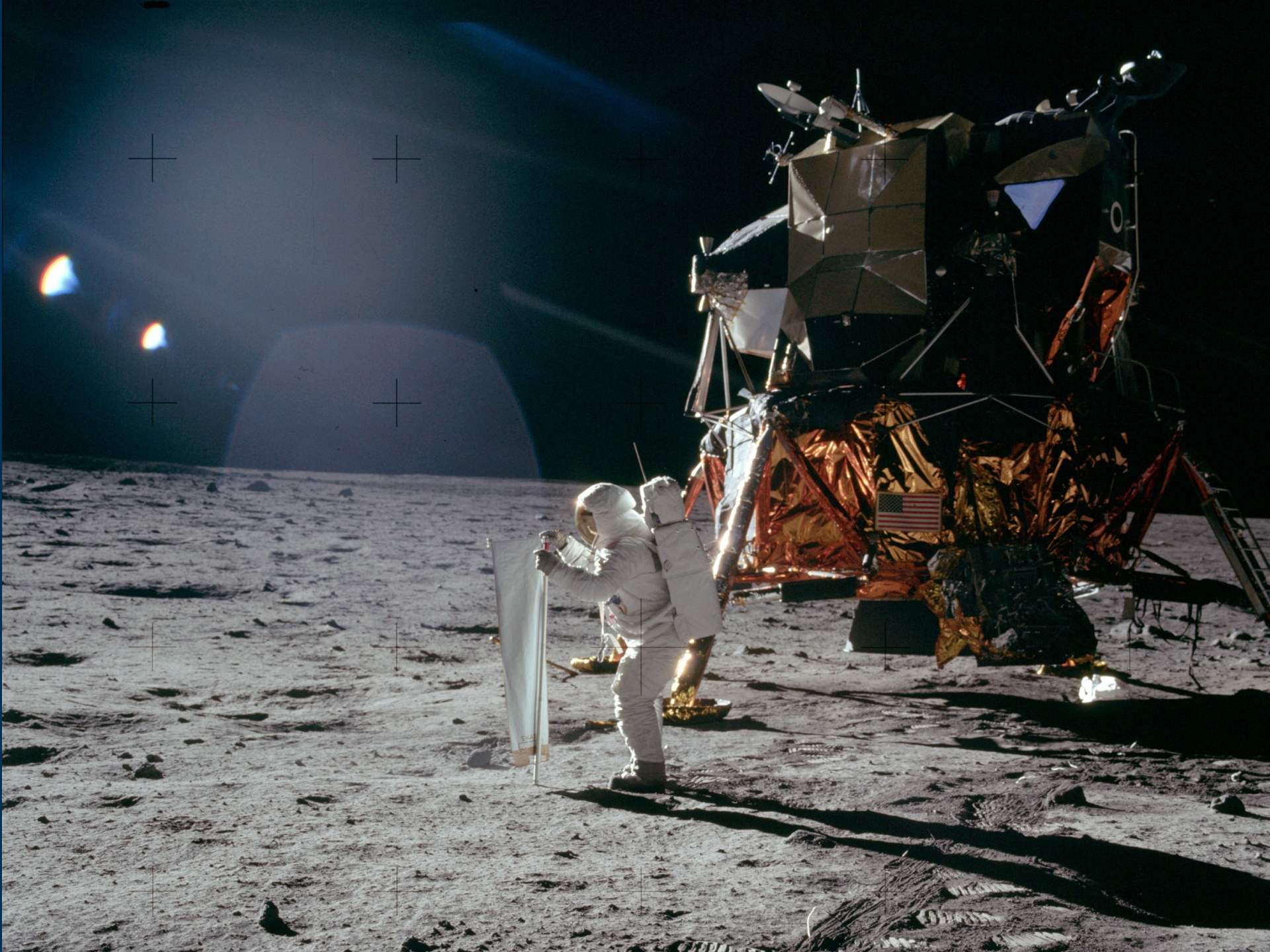

You need to restart your computer. Hold down the Power button for several seconds or press the Restart button.
Veuillez redémarrer votre ordinateur. Maintenez la touche de démarrage enfoncée pendant plusieurs secondes ou bien appuyez sur le bouton de réinitialisation.
Sie müssen Ihren Computer neu starten. Halten Sie dazu die Einschalttaste einige Sekunden gedrückt oder drücken Sie die Neustart-Taste.
コンピュータを再起動する必要があります。パワーボタンを数秒間押し続けるか、リセットボタンを押してください。

```
Call Trace:
 [<c041b7f2>] iounmap+0x9e/0xc8
 [<c053480d>] agp_generic_free_gatt_table+0x2e/0x9e
 [<c0533991>] agp_add_bridge+0x1a8/0x26f
 [<c05439eb>] __driver_attach+0x0/0x6b
 [<c04e6bf4>] pci_device_probe+0x36/0x57
 [<c0543945>] driver_probe_device+0x42/0x8b
 [<c0543a2f>] __driver_attach+0x44/0x6b
 [<c054344a>] bus_for_each_dev+0x37/0x59
 [<c05438af>] driver_attach+0x11/0x13
 [<c05439eb>] __driver_attach+0x0/0x6b
 [<c0543152>] bus_add_driver+0x64/0xfd
 [<c04e6d22>] __pci_register_driver+0x47/0x63
 [<c040044d>] init+0x17d/0x2f7
 [<c0403dee>] ret_from_fork+0x6/0x1c
 [<c04002d0>] init+0x0/0x2f7
 [<c04002d0>] init+0x0/0x2f7
 [<c0404c3b>] kernel_thread_helper+0x7/0x10
 =======================
Code: 78 29 8b 44 24 04 29 d0 8b 54 24 10 c1 f8 05 c1 e0 0c 09 f8 89 02 8b 43 0c
 85 c0 75 08 0f 0b 9c 00 77 c8 61 c0 48 89 43 0c eb 08 <0f> 0b 9f 00 77 c8 61 c0
 8b 03 f6 c4 04 0f 85 a5 00 00 00 a1 0c
EIP: [<c041bd49>] change_page_attr+0x19a/0x275 SS:ESP 0068:c14f7ec0
 <0>Kernel panic - not syncing: Fatal exception
 _
```

Gibraltar fire leads to blackout and halts online betting

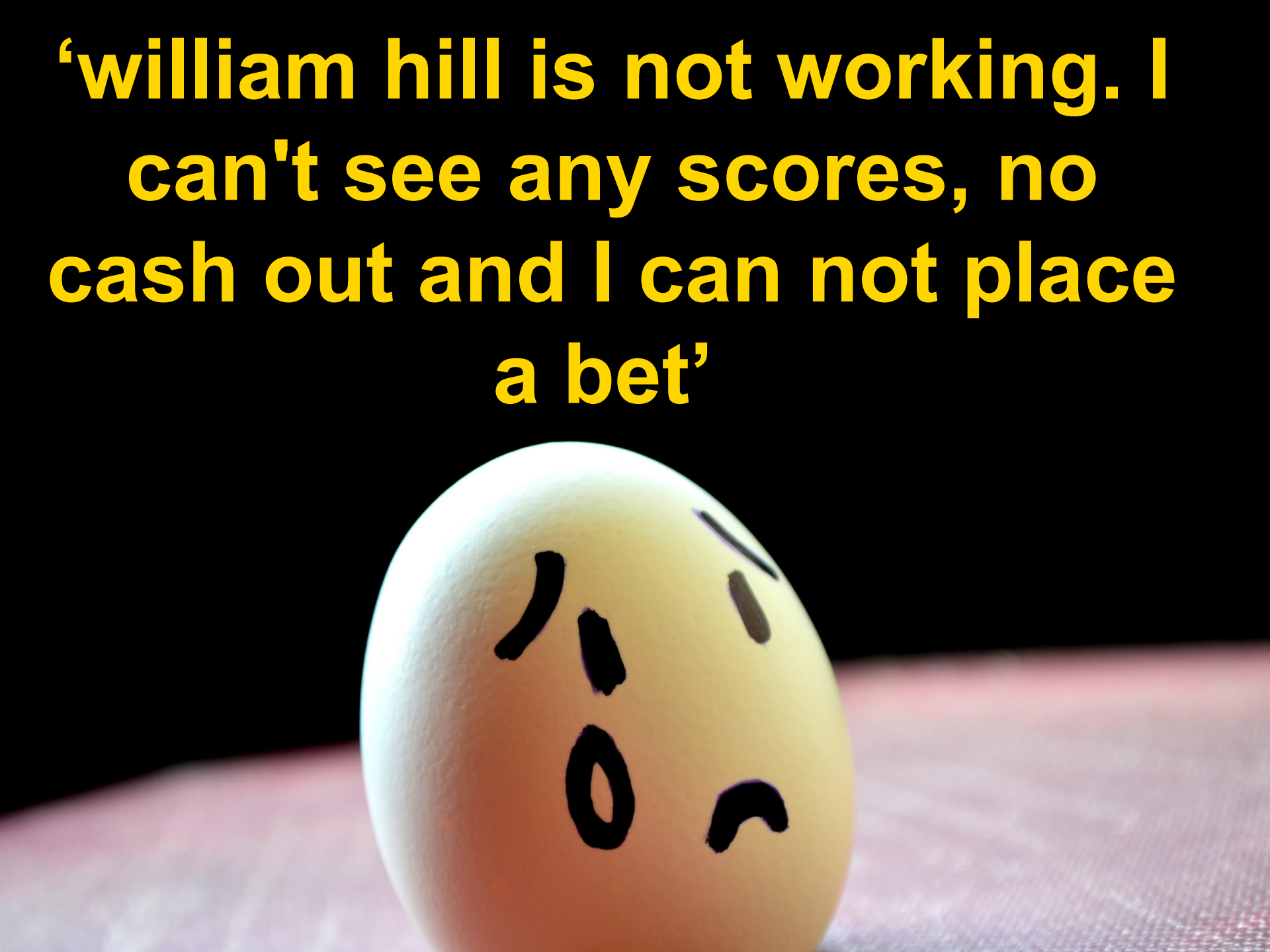
Power station blaze interrupts Gibtelecom services, bringing down worldwide betting services

Smoke billows behind residential buildings following an explosion at Gibraltar's power plant Photo: AFP/Getty Images



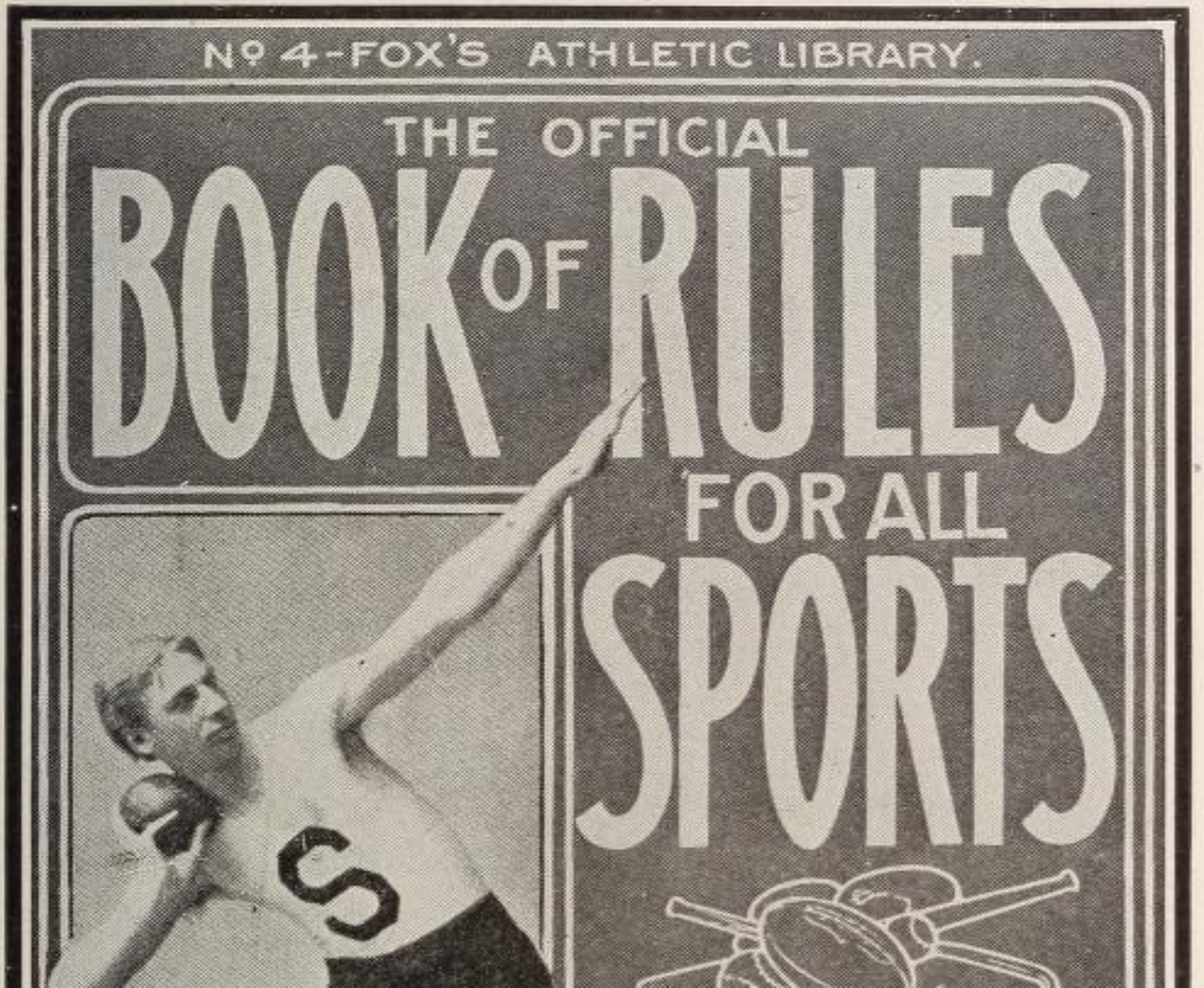
Why does system failure matter?

‘william hill is not working. I can't see any scores, no cash out and I can not place a bet’



Disclaimer

Here's a Standard Authority !



keep learning

If it’s not broken, try harder

GOOD THINGS COME
TO THOSE WHO
COMPOST
shells...peelings....teabags...vegetable scraps...

Development treated as production

DISRUPT OUR INDUSTRY FROM THE INSIDE OUT...

William HILL

2018

amazon

2007: UPROOTS RETAIL, BOOK DISTRIBUTION & PUBLISHING ($142BN)

2007: TRANSFORMS MOBILE INDUSTRY ($686BN)

NETFLIX

2007: DESTROYS 'POSTAL' RENTALS ($19BN)

2001: REIMAGINES MUSIC DISTRIBUTION & CONSUMPTION

Google

1998: TRANSFORMS ADVERTISING (NOW $350BN)

Netscape

1994: REVOLUTIONIZES COMMERCE

WHERE DID THEY COME FROM?

SQUARE (FINANCE) - $6BN

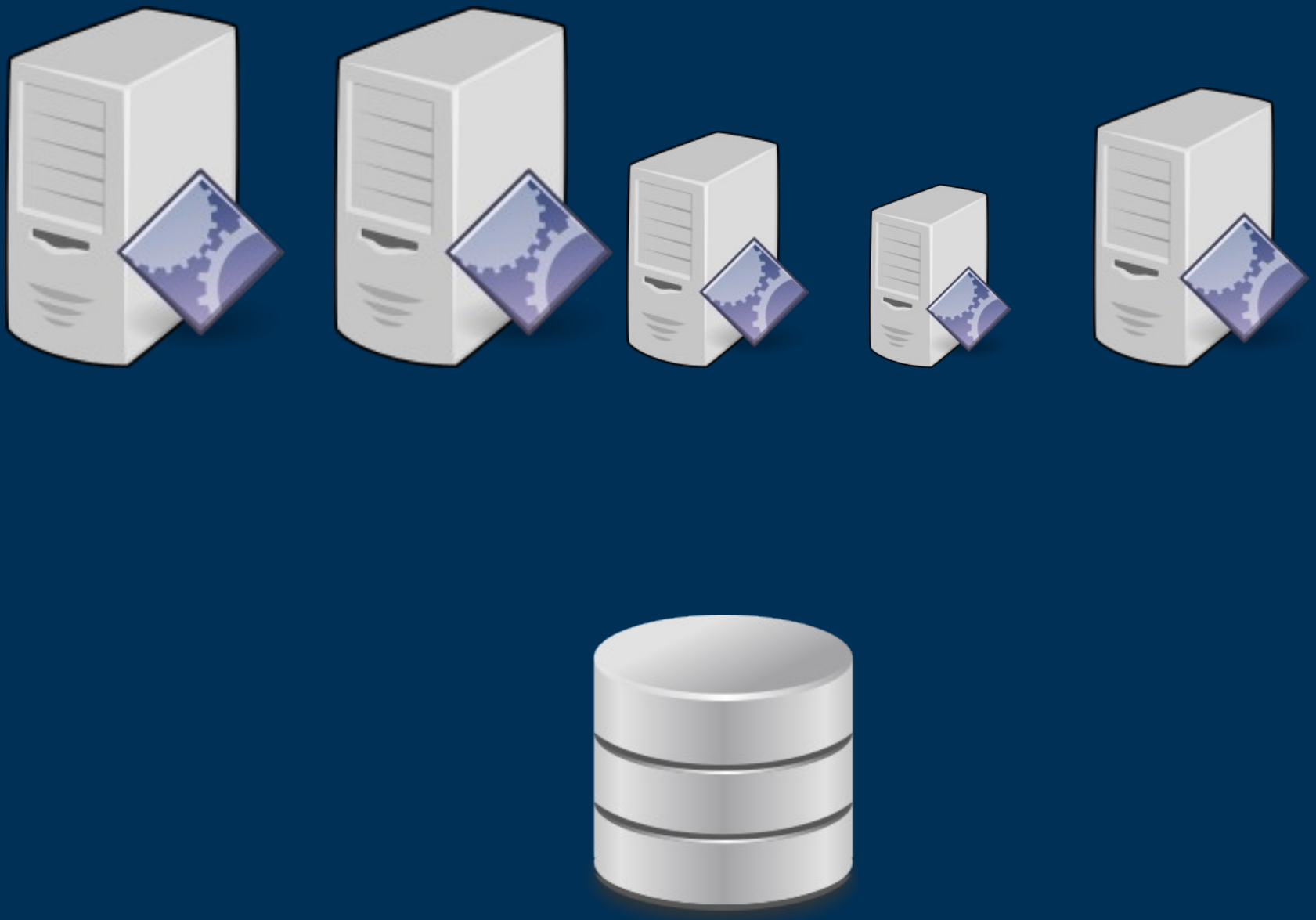
AIRBNB (HOSPITALITY) $10BN

UBER (TRANSPORT) $40BN

Our 'anti-pattern'

Some months later

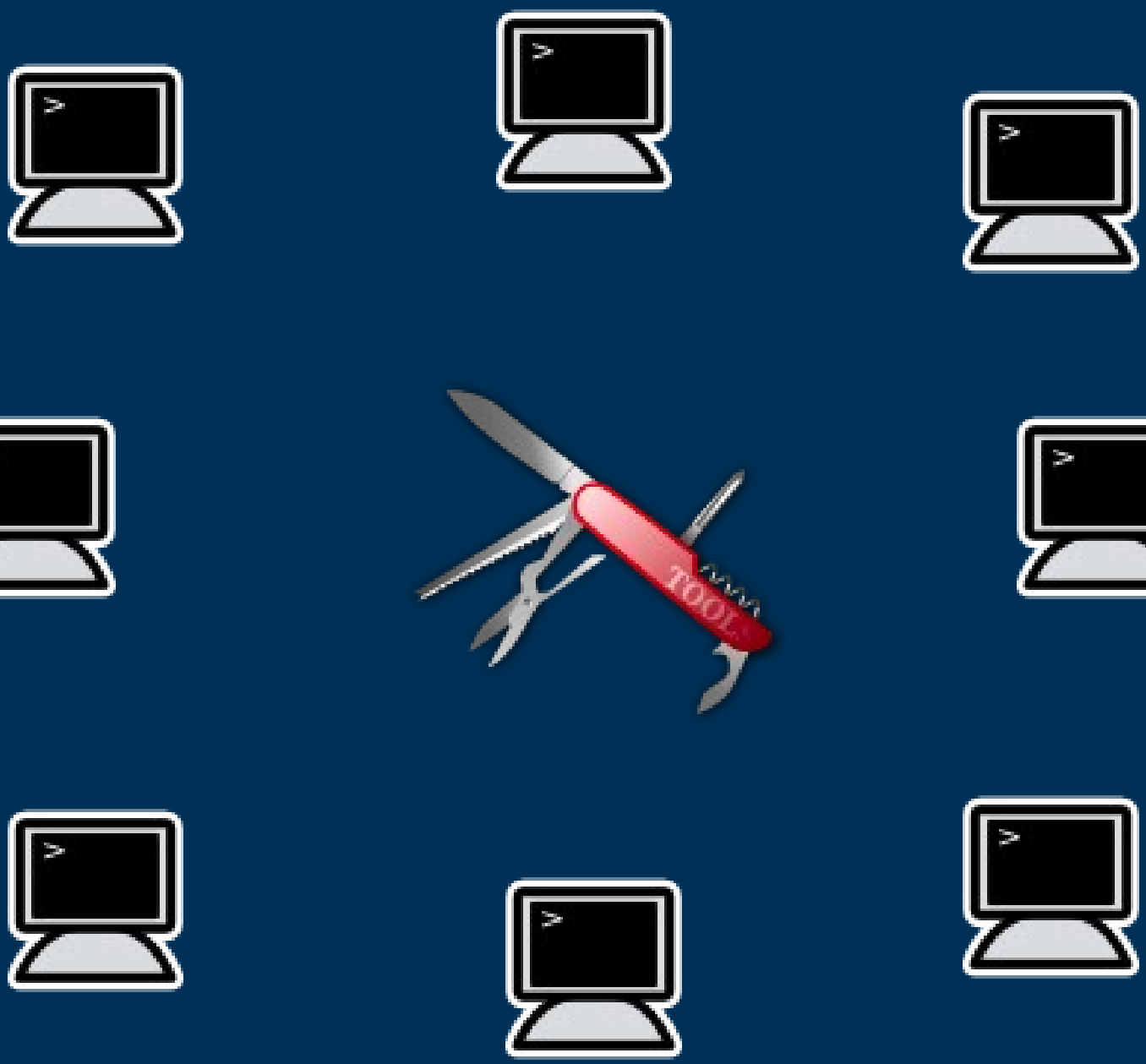
Some years later



Do you have a time machine?

The problem is..

Pattern tends to repeat..

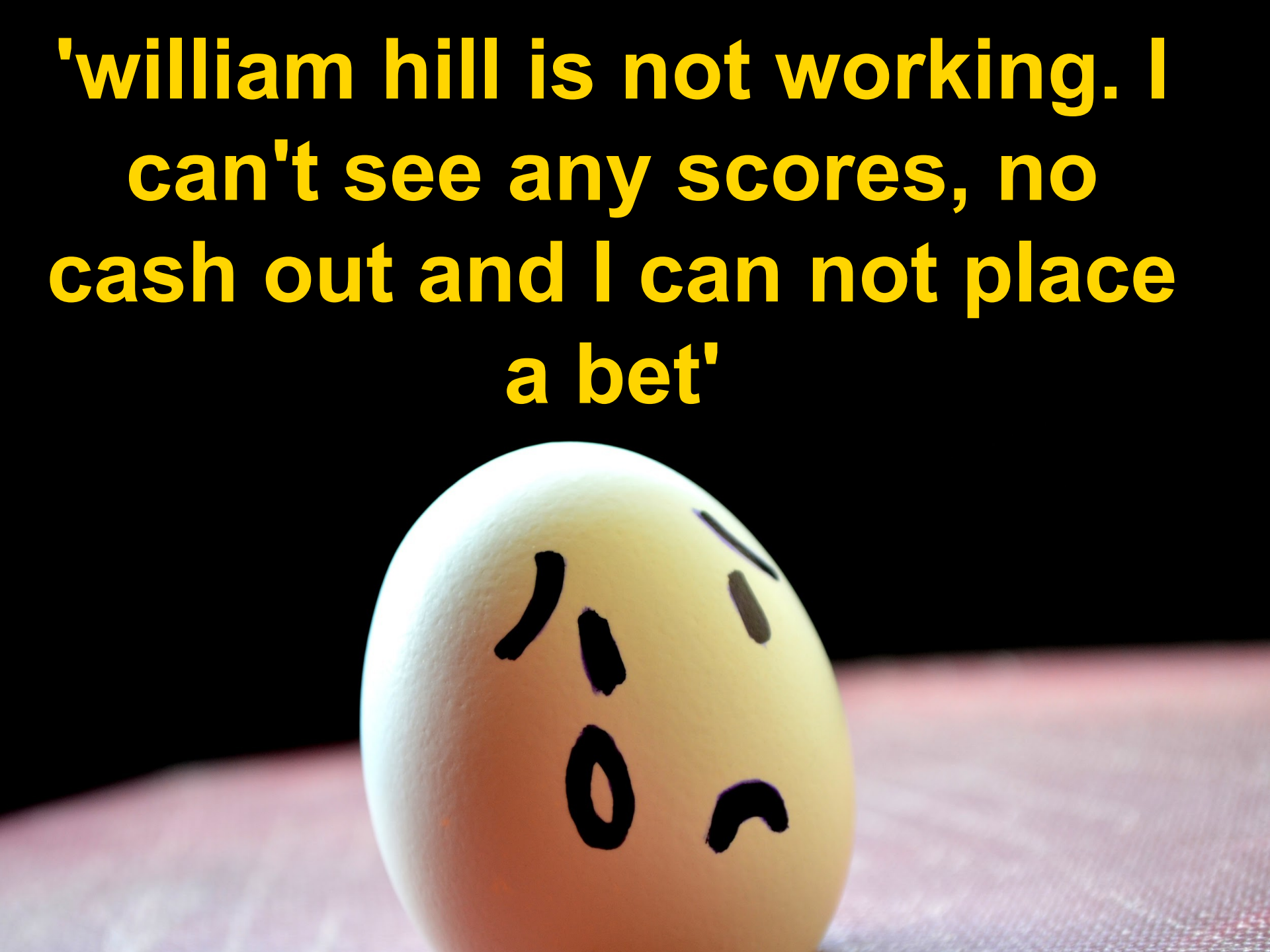

TOOL

And the alternative?

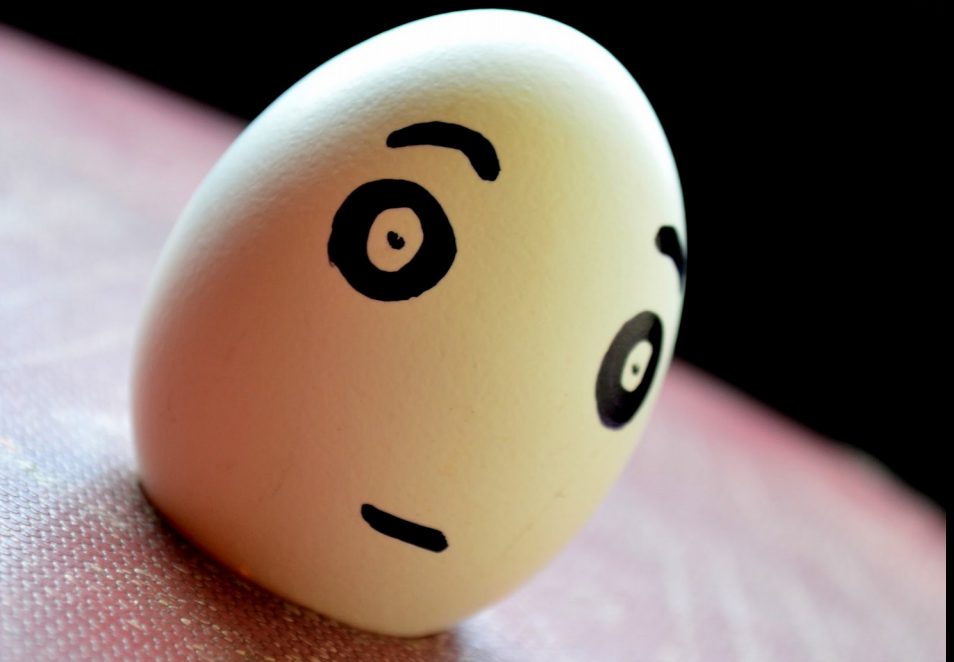
CAT
966G

What are we trying to achieve?

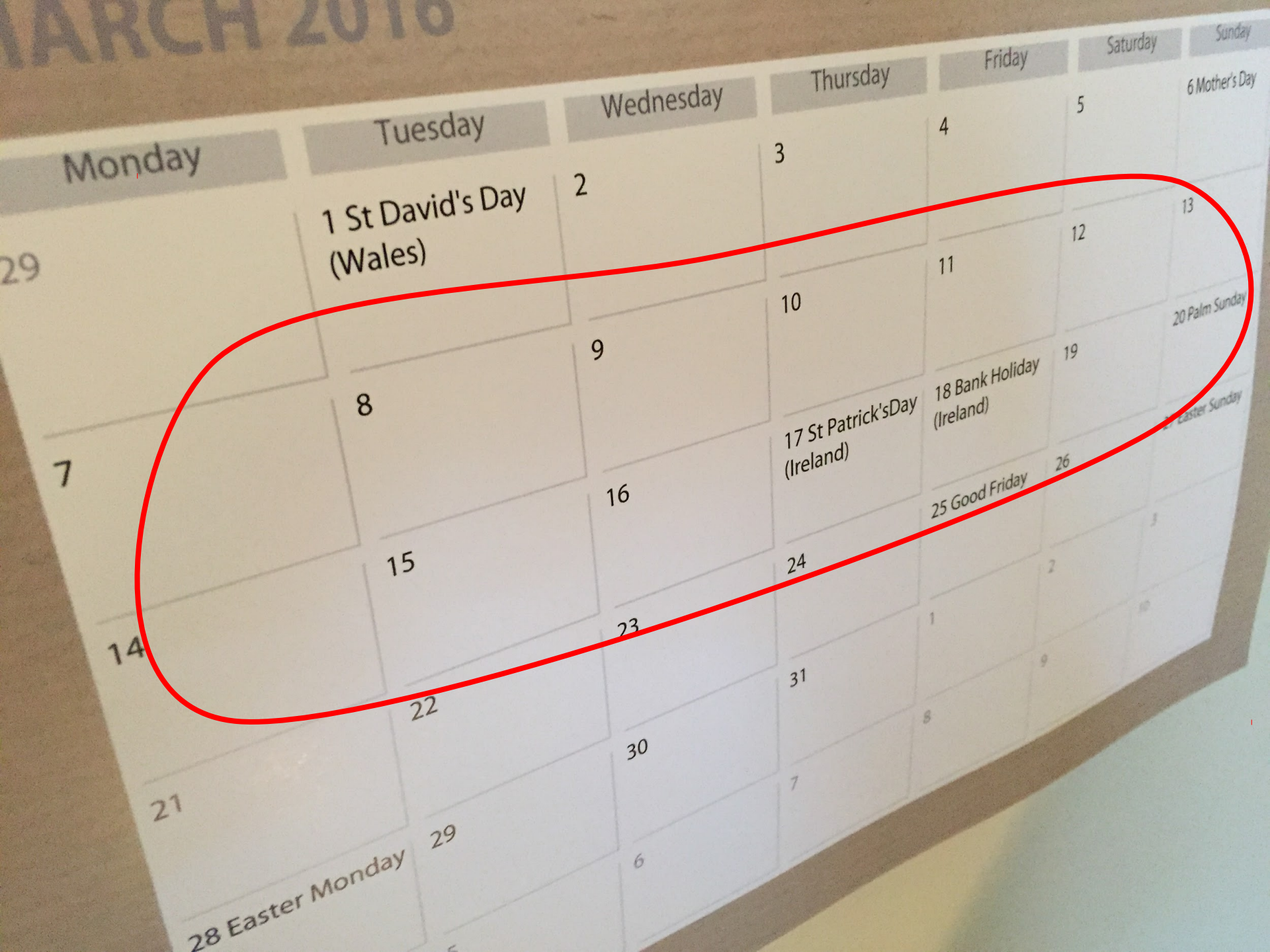
'william hill is not working. I can't see any scores, no cash out and I can not place a bet'



'william hill, I can not cash out'



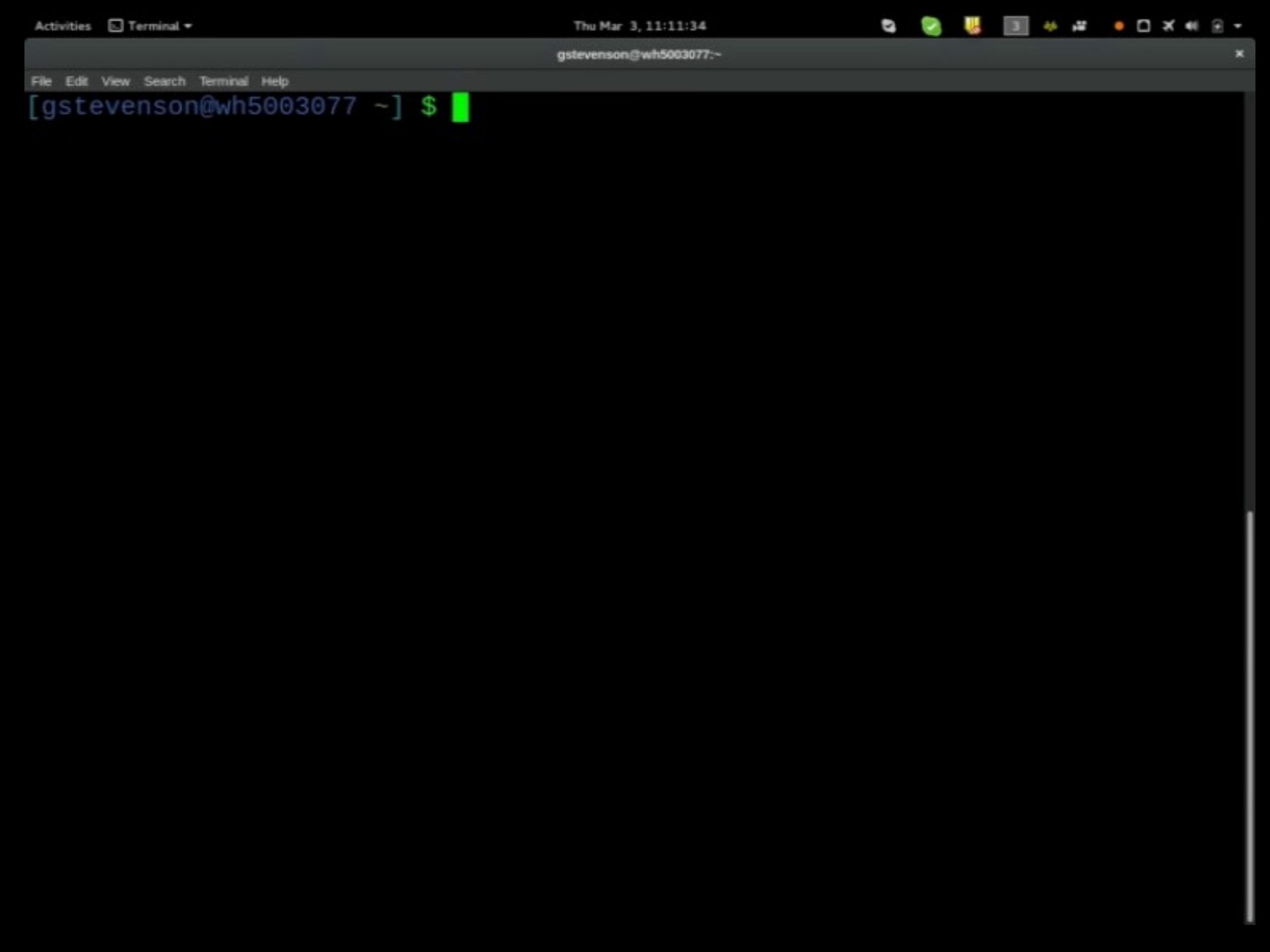
Design and approach


ARCH 2016
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday
1 St David's Day (Wales)
17 St Patrick'sDay (Ireland)
18 Bank Holiday (Ireland)
25 Good Friday
20 Palm Sunday
6 Mother's Day
28 Easter Monday

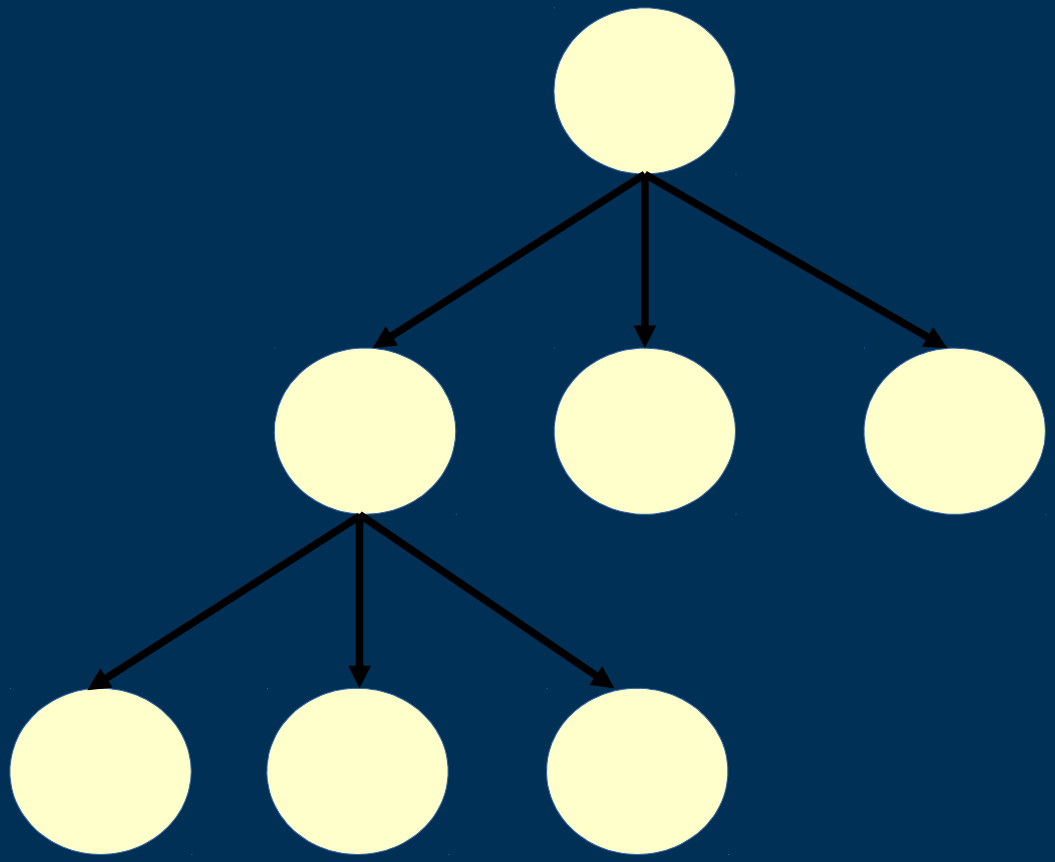
```
[gstevenson@wh5003077 ~] $ ls -l /usr/sbin/mkfs.*
-rwxr-xr-x. 1 root root 296456 Nov 18 17:25 /usr/sbin/mkfs.btrfs
-rwxr-xr-x. 1 root root  36472 Nov 18 11:29 /usr/sbin/mkfs.cramfs
-rwxr-xr-x. 5 root root 111472 Jun 17  2015 /usr/sbin/mkfs.ext2
-rwxr-xr-x. 5 root root 111472 Jun 17  2015 /usr/sbin/mkfs.ext3
-rwxr-xr-x. 5 root root 111472 Jun 17  2015 /usr/sbin/mkfs.ext4
-rwxr-xr-x. 5 root root 111472 Jun 17  2015 /usr/sbin/mkfs.ext4dev
-rwxr-xr-x. 1 root root  28640 Sep 18 17:25 /usr/sbin/mkfs.fat
-rwxr-xr-x. 1 root root  28944 Jun 17  2015 /usr/sbin/mkfs.hfsplus
-rwxr-xr-x. 1 root root  78720 Nov 18 11:29 /usr/sbin/mkfs.minix
lrwxrwxrwx. 1 root root      8 Sep 18 17:25 /usr/sbin/mkfs.msdos -> mkfs.fat
lrwxrwxrwx. 1 root root     16 Jun 18  2015 /usr/sbin/mkfs.ntfs -> /usr/sbin/mkntfs
lrwxrwxrwx. 1 root root      8 Sep 18 17:25 /usr/sbin/mkfs.vfat -> mkfs.fat
-rwxr-xr-x. 1 root root 363000 Jul 30  2015 /usr/sbin/mkfs.xfs
```

active
active

Epoch:
Sports Betting Engine


Activities
Terminal
Thu Mar 3, 11:11:34
gstevenson@wh5003077:~
File Edit View Search Terminal Help
[gstevenson@wh5003077 ~] $

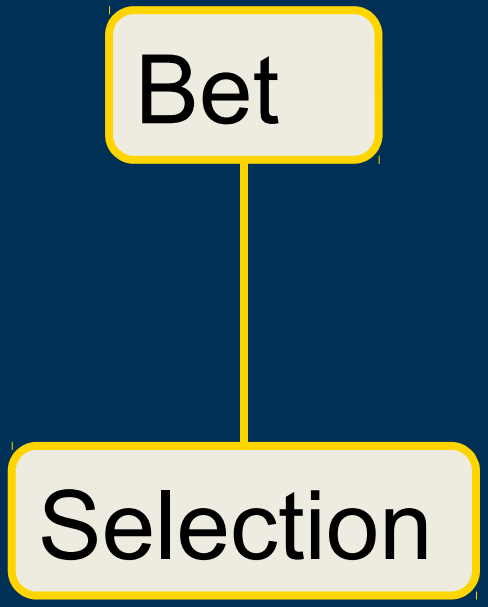
ABC

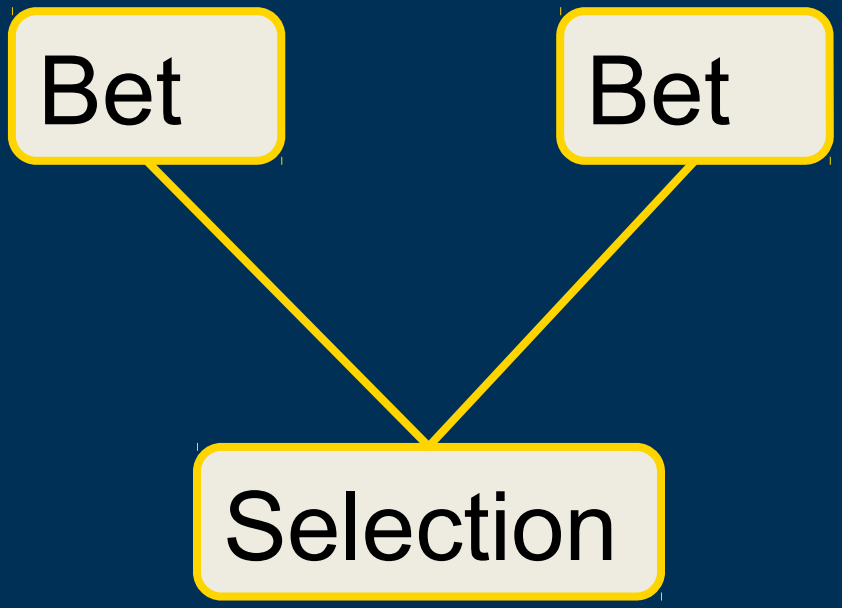


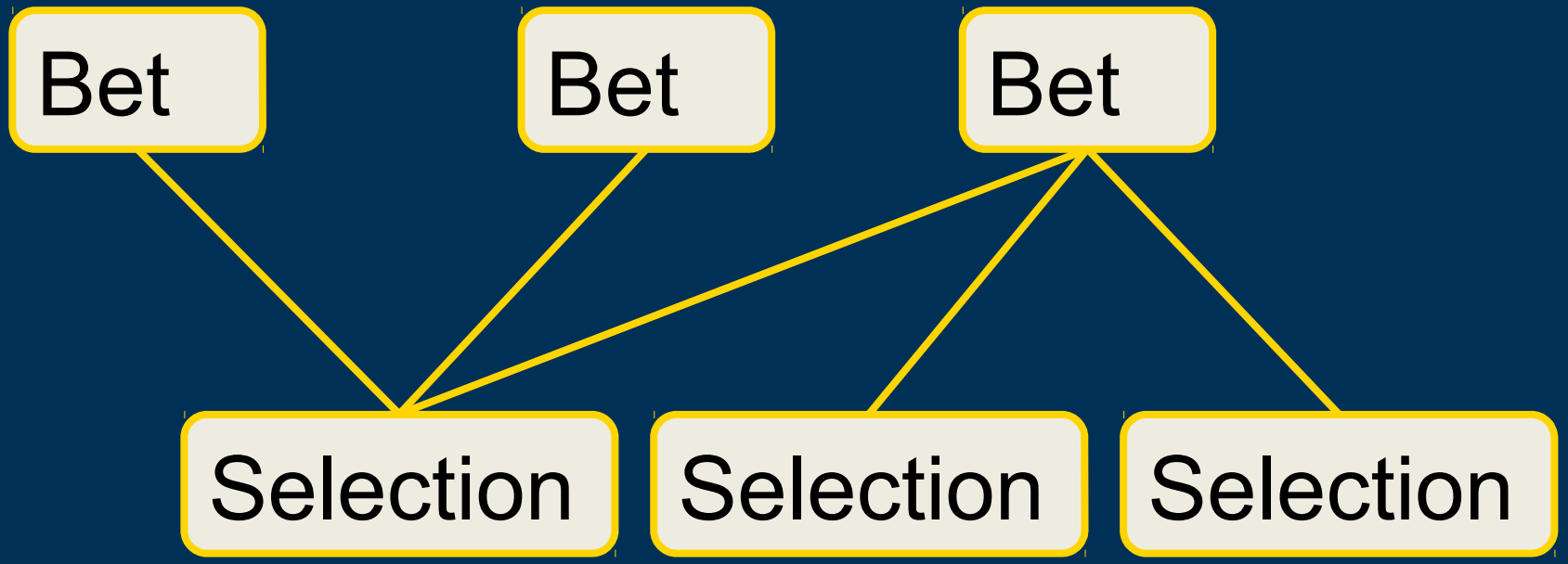
http://golang.org

https://en.wikipedia.org/wiki/Actor_model

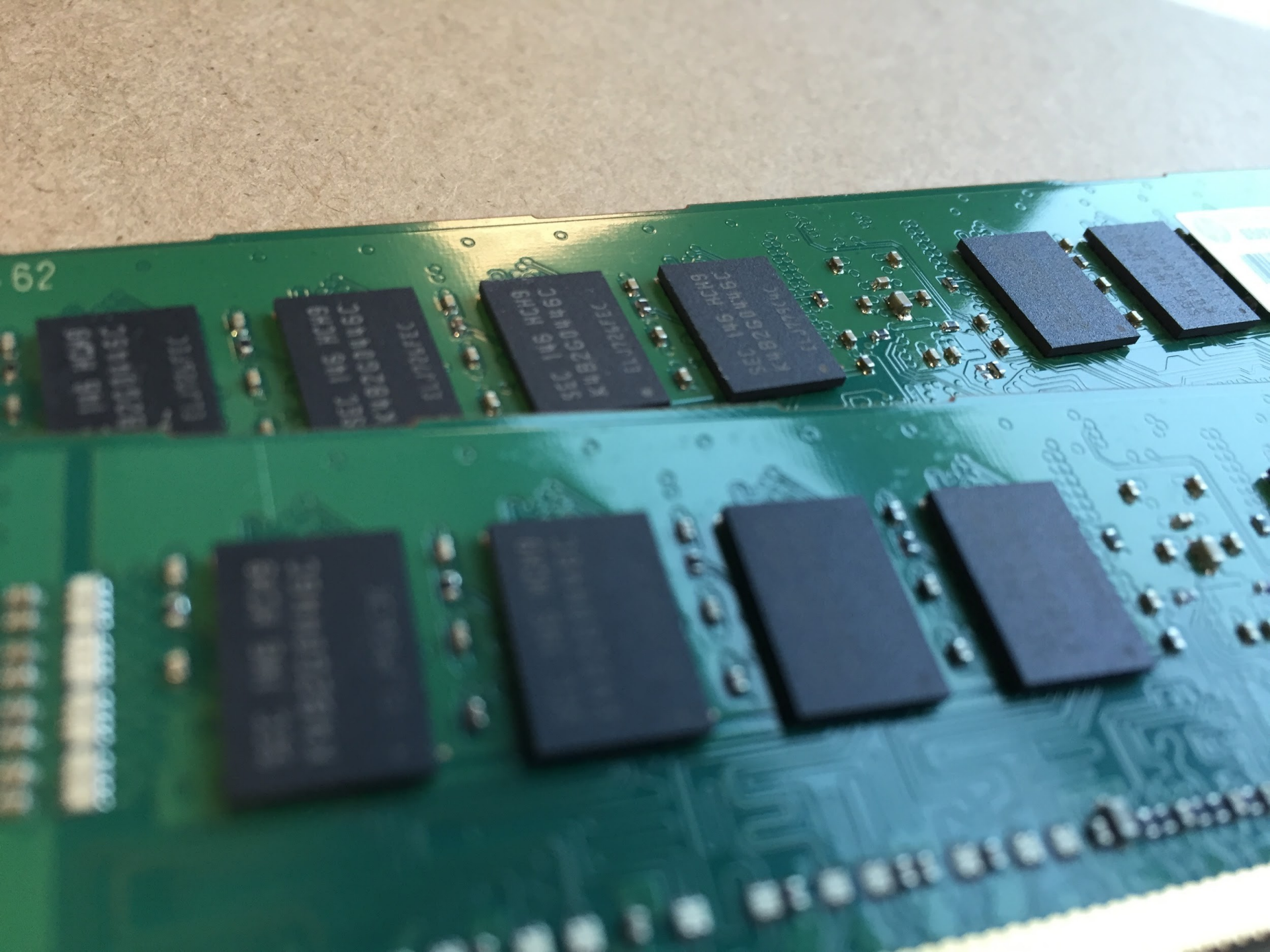
The 1 and 0's


Bet
Selection

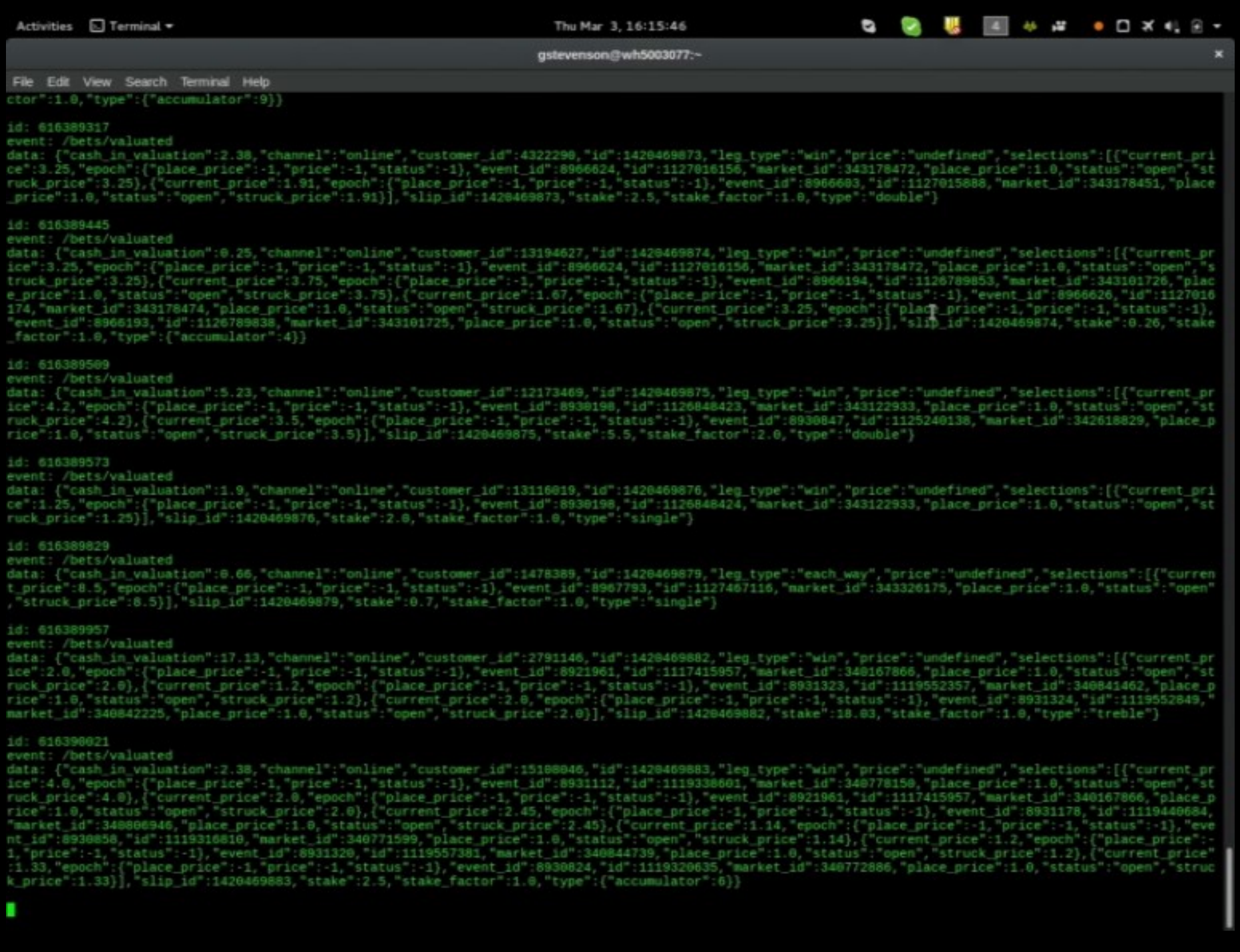

Bet
Bet
Selection


Bet
Bet
Bet
Selection
Selection
Selection

DO NOT COVER ANY DRIVE HOLES
WARRANTY
VOID
IF REMOVED



Testing?


Activities
Terminal
Thu Mar 3, 16:15:46
gstevenson@wh5003077:~
File Edit View Search Terminal Help
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id: 616389317
event: /bets/valuated
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id: 616389957
event: /bets/valuated
data: {"cash_in_valuation":17.13,"channel":"online","customer_id":2791146,"id":1420469882,"leg_type":"win","price":"undefined","selections":[{"current_price":2.0,"epoch":{"place_price":-1,"price":-1,"status":-1},"event_id":8921961,"id":1117415957,"market_id":340167866,"place_price":1.0,"status":"open","struck_price":2.0},{"current_price":1.2,"epoch":{"place_price":-1,"price":-1,"status":-1},"event_id":8931323,"id":1119552357,"market_id":340841462,"place_price":1.0,"status":"open","struck_price":1.2},{"current_price":2.0,"epoch":{"place_price":-1,"price":-1,"status":-1},"event_id":8931324,"id":1119552849,"market_id":340842225,"place_price":1.0,"status":"open","struck_price":2.0}],"slip_id":1420469882,"stake":18.03,"stake_factor":1.0,"type":"treble"}
id: 616390021
event: /bets/valuated
data: {"cash_in_valuation":2.38,"channel":"online","customer_id":15188046,"id":1420469883,"leg_type":"win","price":"undefined","selections":[{"current_price":4.0,"epoch":{"place_price":-1,"price":-1,"status":-1},"event_id":8931112,"id":1119338601,"market_id":340778150,"place_price":1.0,"status":"open","struck_price":4.0},{"current_price":2.0,"epoch":{"place_price":-1,"price":-1,"status":-1},"event_id":8921961,"id":1117415957,"market_id":340167866,"place_price":1.0,"status":"open","struck_price":2.0},{"current_price":2.45,"epoch":{"place_price":-1,"price":-1,"status":-1},"event_id":8931178,"id":1119440684,"market_id":340806946,"place_price":1.0,"status":"open","struck_price":2.45},{"current_price":1.14,"epoch":{"place_price":-1,"price":-1,"status":-1},"event_id":8930858,"id":1119316810,"market_id":340771599,"place_price":1.0,"status":"open","struck_price":1.14},{"current_price":1.2,"epoch":{"place_price":-1,"price":-1,"status":-1},"event_id":8931320,"id":1119557381,"market_id":340844739,"place_price":1.0,"status":"open","struck_price":1.2},{"current_price":1.33,"epoch":{"place_price":-1,"price":-1,"status":-1},"event_id":8930824,"id":1119320635,"market_id":340772886,"place_price":1.0,"status":"open","struck_price":1.33}],"slip_id":1420469883,"stake":2.5,"stake_factor":1.0,"type":{"accumulator":6}}

William HILL

90 Minutes
4/5 MAN UTD.
Sunderland. v Man Utd. FTWLD (13 Feb 2016 12:45:00)
4/6 Everton.
Everton. v West Brom. FTWLD (13 Feb 2016 15:00:00)
1/2 Chelsea.
5/6 Cr
4/5 QI
10/11 QPI
21/20 Ar
5/2 Ars
Li
Ast
Mai
Man
LEE
Leeds
1.0
1 X
If all selections
plus any

William HILL

Score & Win
9/4 SW Chelsea
SW Chelse v SW Newcastl FTWLD (13 Feb 2016 17:30:00)
3/1 SW QPR
SW QPR v SW Fulham FTWLD (13 Feb 2016 12:30:00)
3/1 Valencia
nci v SW Espanyo FTWLD (13 Feb 2016 19:30:00)
erpool
l v SW Liverpo FTWL (14 Feb 2016 14:05:00)
ity
Tottenha FTWLD (14 Feb 2016 16:15:00
rough
brou FTWLD (15 Feb 2016 19:45:00
1.00
XFOLD
receive 3168.75 (Inc.
payout rules)

Racing commentary on 08712 444666-From 13p/min
Shrewd Tactics
3/1
TOTAL STAKE 3
OPERATOR:9999990066
15:19:16
16110
ee FTWLD
FIVEFOLD

William HILL

90 Minutes
4/5 Arsenal.
Arsenal. v Leicester. FTWLD (14 Feb 2016 12:00:00)
11/4 Aston Villa.
Aston Villa v Liverpool FTWLD (14 Feb 2016 14:05:00)
21/20 Man City.
Man City. v Tottenham. FTWLD (14 Feb 2016 16:15:00)
19/20 MIDDLESBROUGH
Leeds v Middlesbrough FTWLD (15 Feb 2016 19:45:00)
1 X 2.00 WIN FOURFOLD 2.00
If all selections are correct you will receive 53.97 (Inc. Stake)
plus any bonuses
(subject to William Hill maximum payout rules)

90 Minutes
4/5 MAN UTD.
Sunderland. v Man Utd. FTWLD (13 Feb 2016 12:45:00)
23/20 BOURNEMOUTH

Racing commentary on 08712 444666-From 13p/min
Tottenham
HILL
TOTAL STAKE 3
STAKE:10.00 STRUCK:28 Jan 2016 14:42:15 OPERATOR:9999990066
03004602148358
Stake)

William HILL

RTON
v Chesterfield FTWLD (12 Feb 2016 19:45:00)
al Palace.
alace v Watford FTWLD (13 Feb 2016 15:00:00)
thampton. FTWLD (13 Feb 2016 15:00:00)
FTWLD (13 Feb 2016 15:00:00)
OURFOLD
receive

Iteration 1
(two weeks)

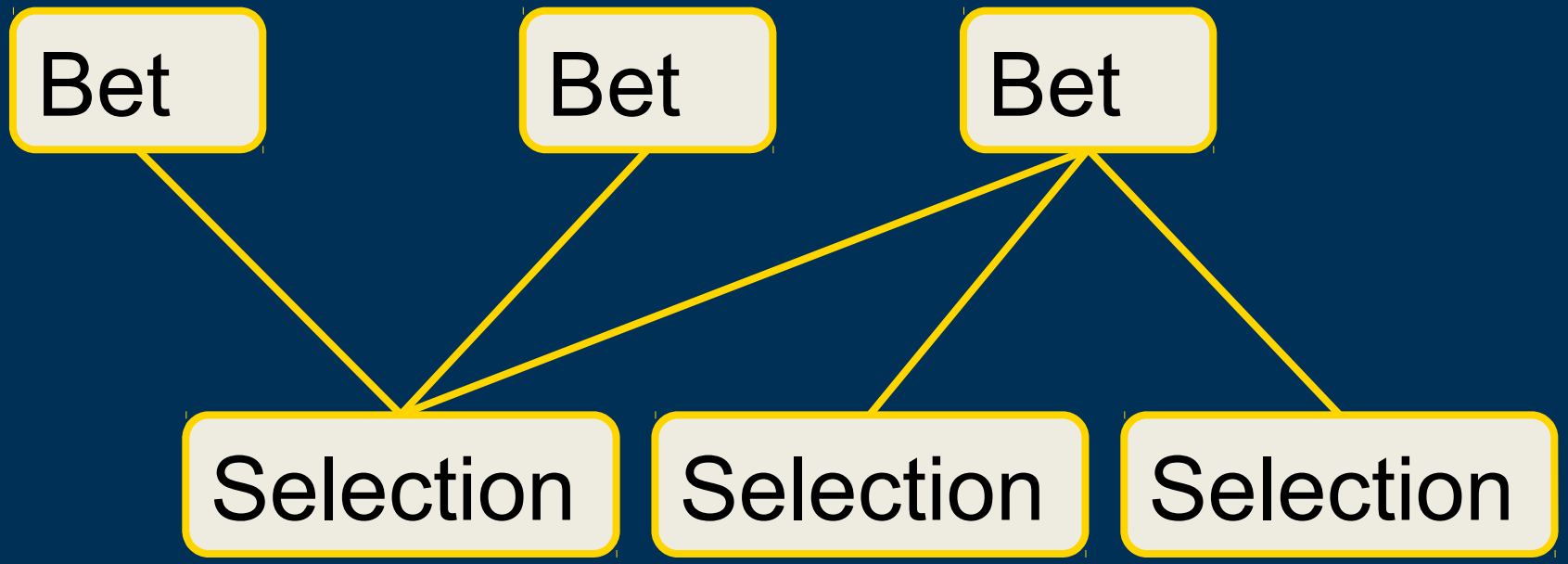
Server Sent Event Streams

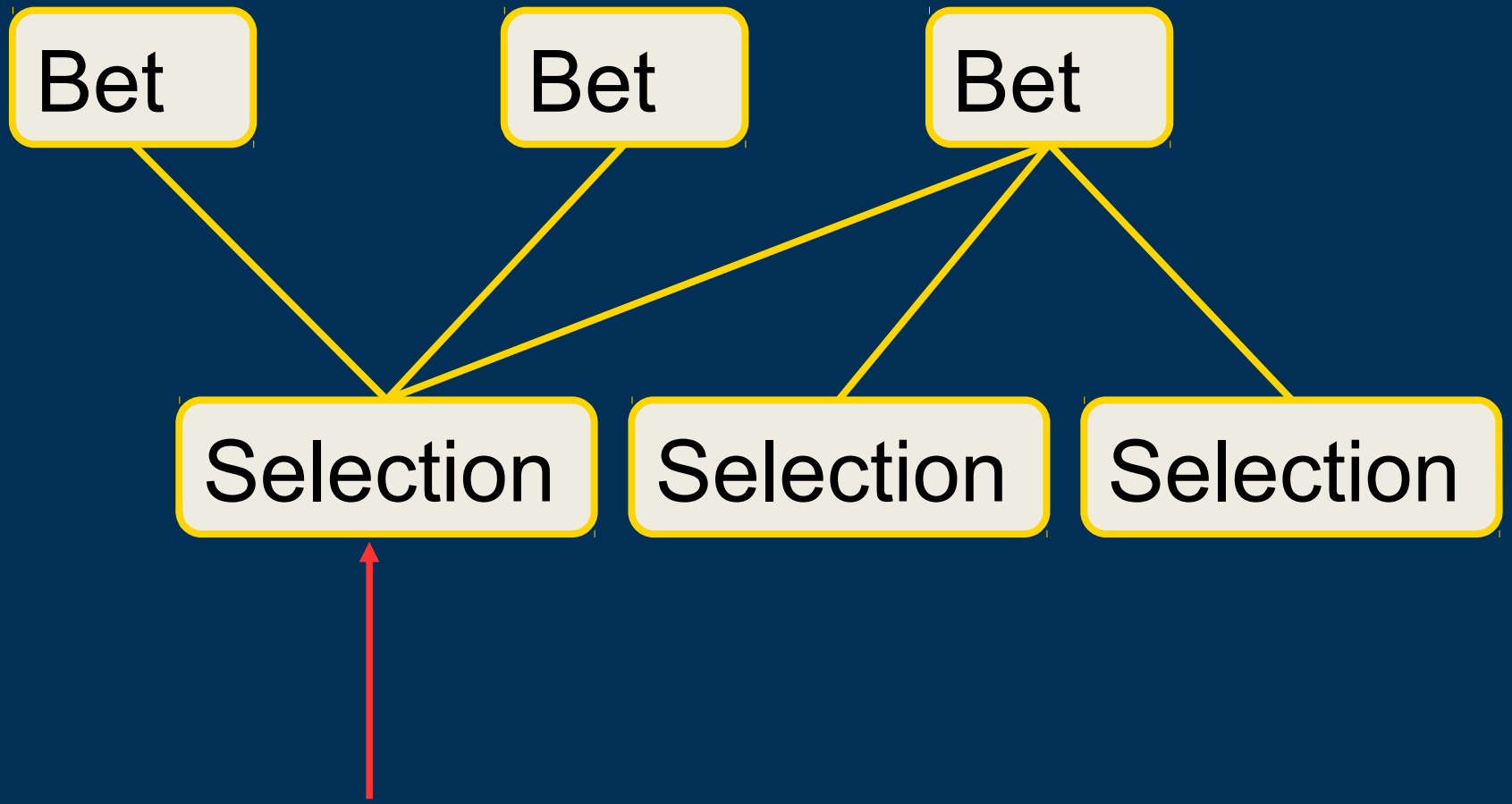
```
curl http://server/chat

id: 918273
event: /message/from/bob
data: {“message”, “Not telling you”}
```

```
curl http://server/chat?from=918273
```

```
id: 918273
event: /message/from/fred
data: {“message”, “Anybody know where
the bananas are hidden?”}
```

```
id: 918274
event: /message/from/bob
data: {“message”, “Not telling you”}
```

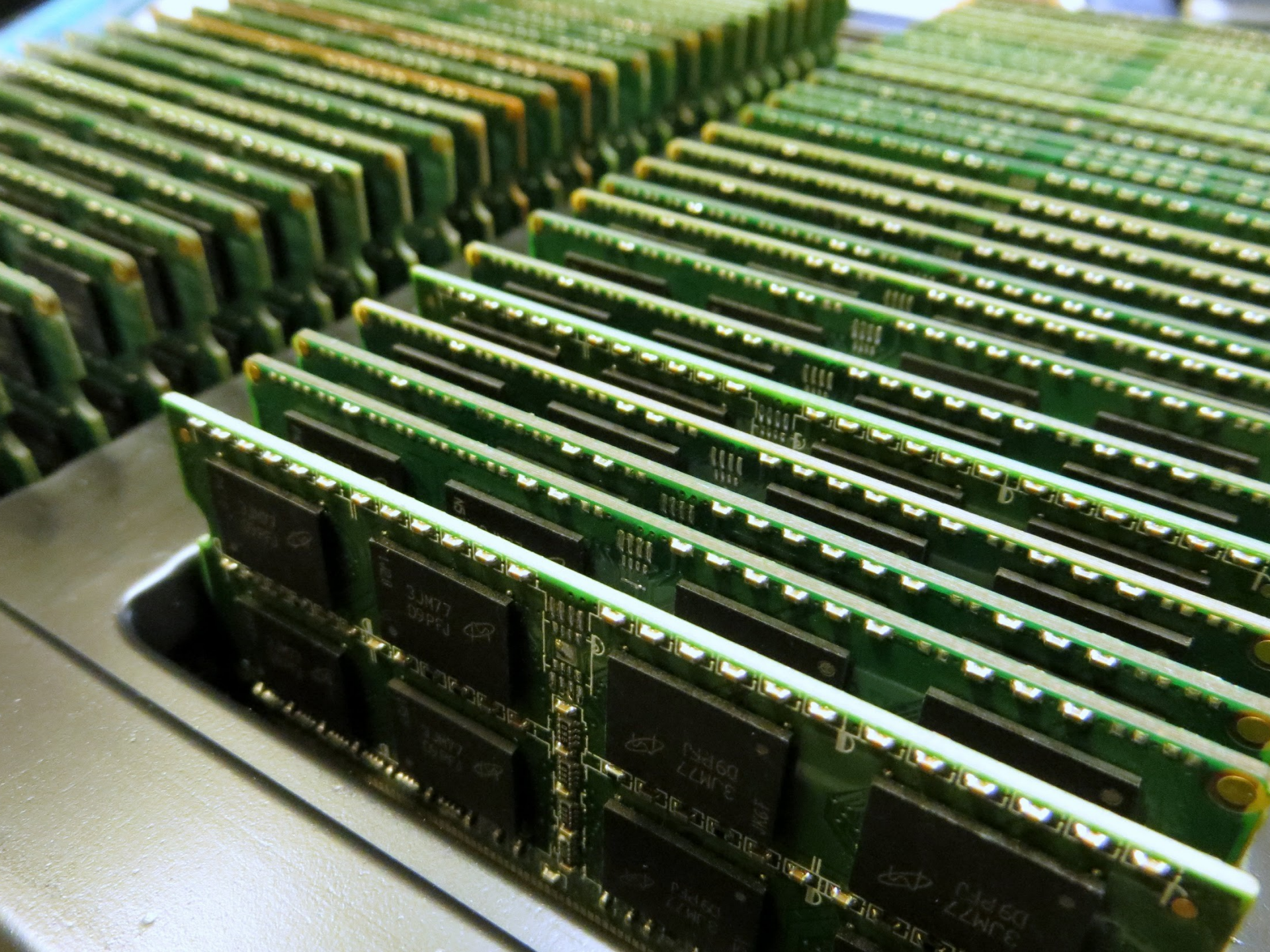

Bet
Bet
Bet
Selection
Selection
Selection

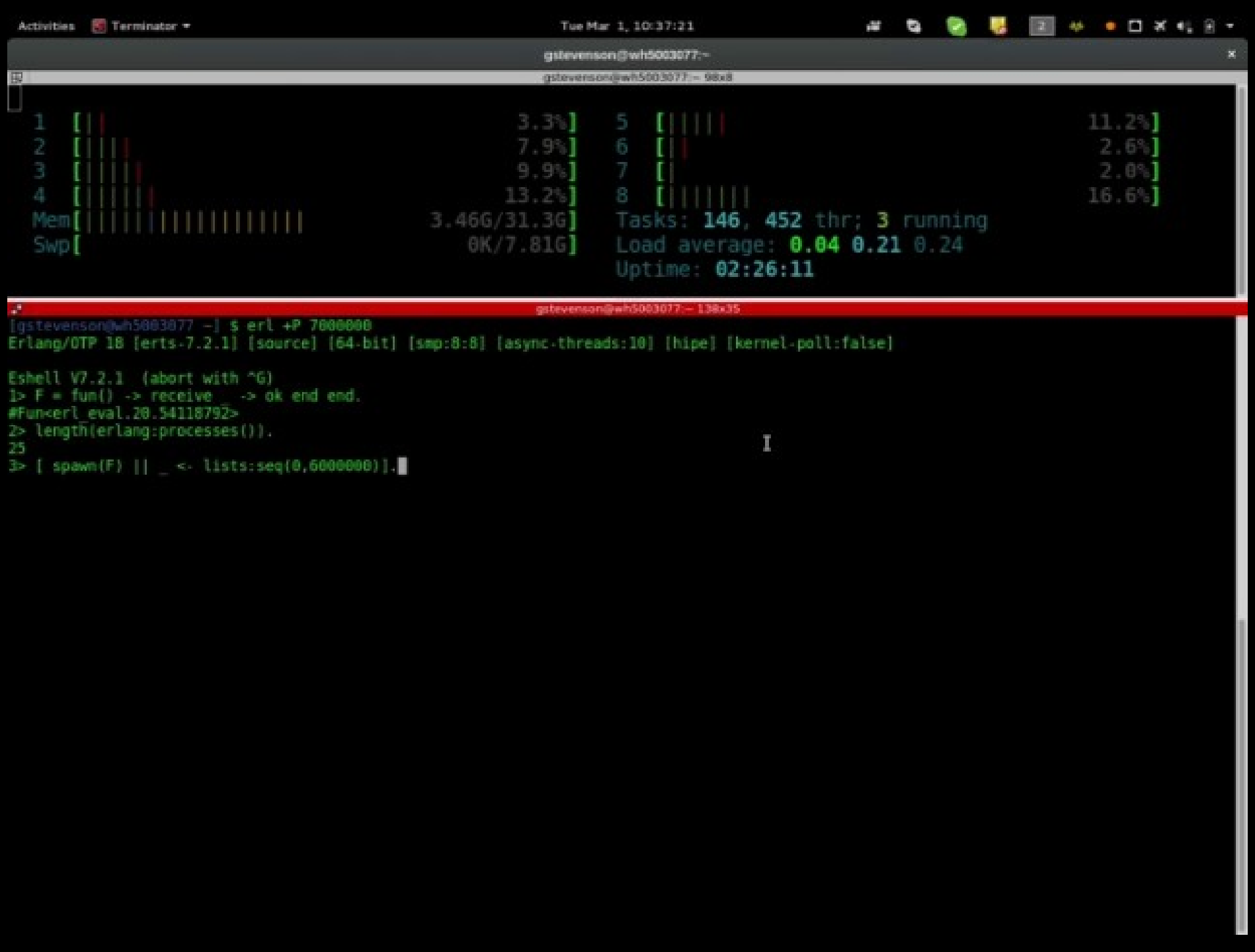

Bet
Bet
Bet
Selection
Selection
Selection

It works

If it’s not broken, try harder

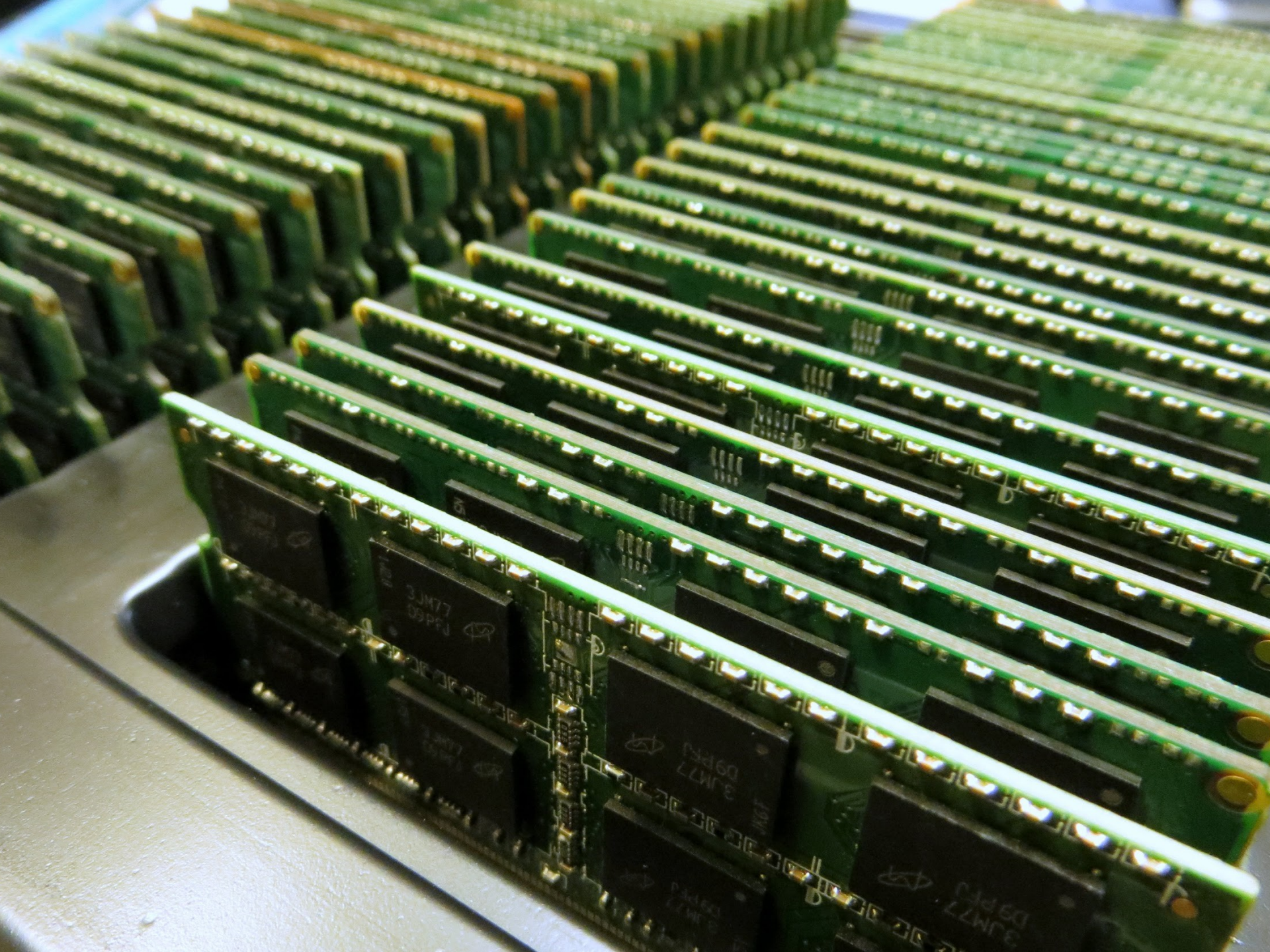
It failed

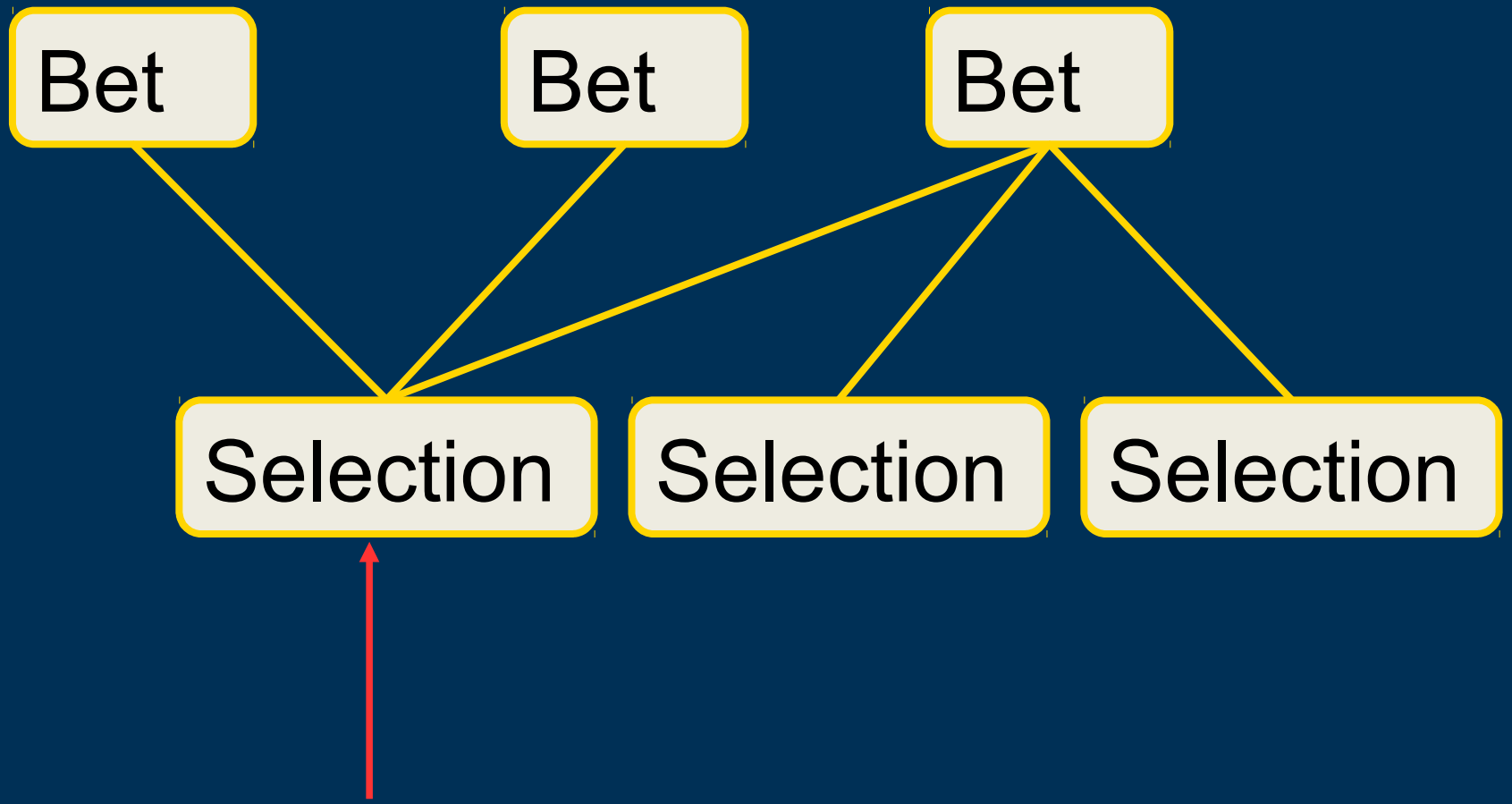



Activities
Terminator
Tue Mar 1, 10:37:21
gstevenson@wh5003077:~
gstevenson@wh5003077:~ 98x8
1 [|| 3.3%]
2 [||||| 7.9%]
3 [|||||| 9.9%]
4 [||||||| 13.2%]
5 [||||| 11.2%]
6 [|| 2.6%]
7 [| 2.0%]
8 [|||||||| 16.6%]
Mem[|||||||||||||||||| 3.46G/31.3G]
Swp[0K/7.81G]
Tasks: 146, 452 thr; 3 running
Load average: 0.04 0.21 0.24
Uptime: 02:26:11
gstevenson@wh5003077:~ 138x35
[gstevenson@wh5003077 ~] $ erl +P 7000000
Erlang/OTP 18 [erts-7.2.1] [source] [64-bit] [smp:8:8] [async-threads:10] [hipe] [kernel-poll:false]
Eshell V7.2.1 (abort with ^G)
1> F = fun() -> receive -> ok end end.
#Fun<erl_eval.20.54118792>
2> length(erlang:processes()).
25
3> [spawn(F) || _ <- lists:seq(0,6000000)].

Iteration 3
(from scratch, two weeks)

60
5
10
15
20
25
30
35
40
45
50
55
0,2 s
СДЕЛАНО В СССР

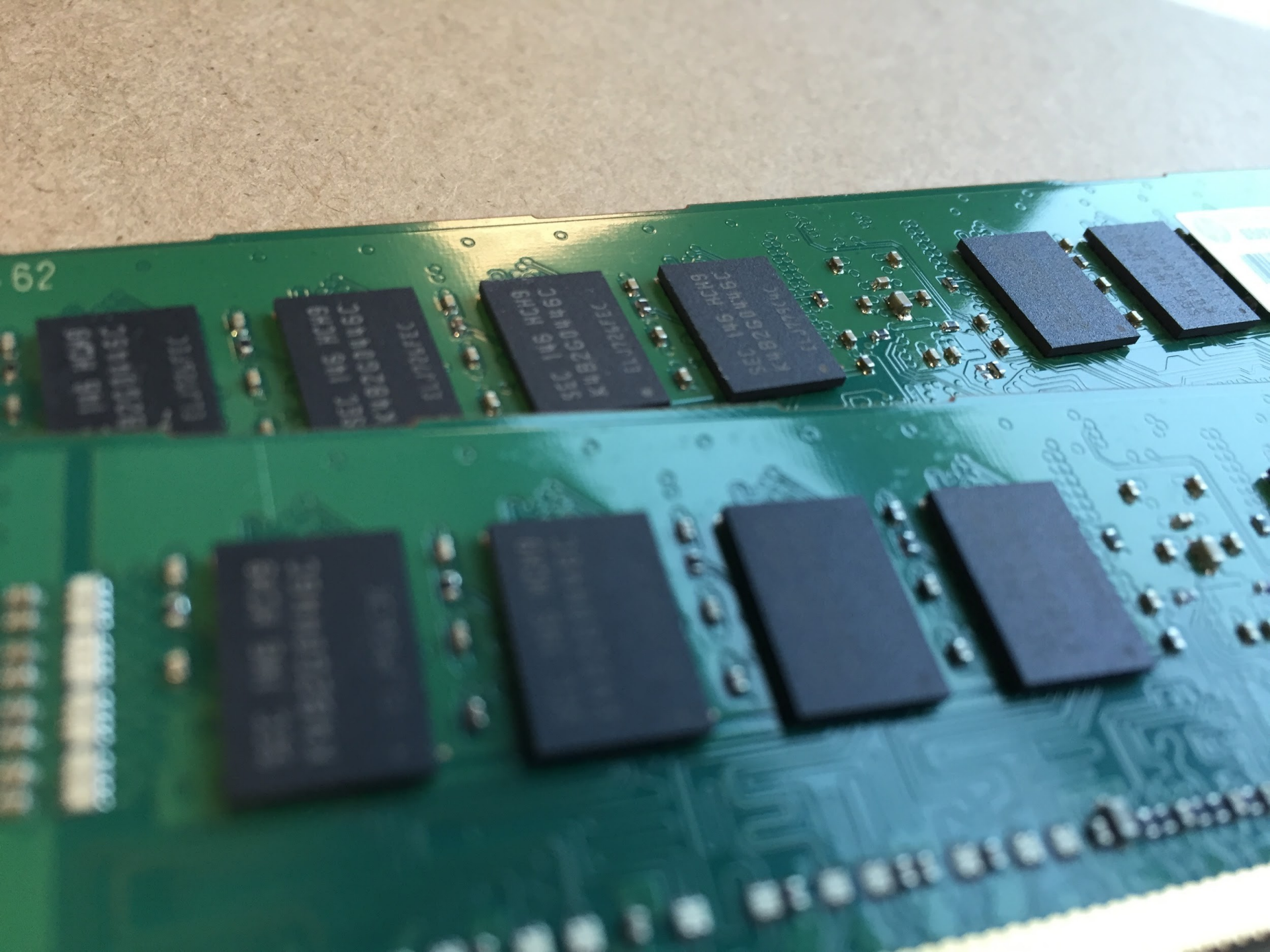



Bet
Bet
Bet
Selection
Selection
Selection

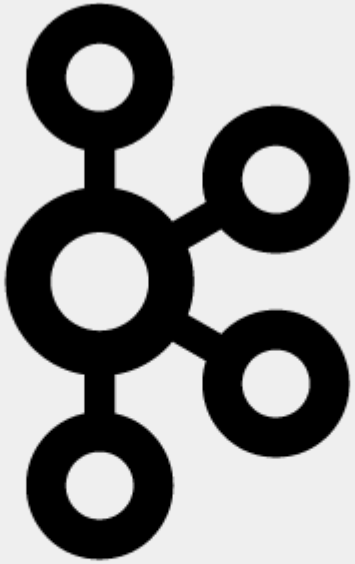
Iteration 5 (from scratch, two weeks)

Bets and Selections Stored in ETS

Scottish Football Association
CHALLENGE CUP
WON BY
QUEEN'S PARK FOOTB
Miller HILL



If it’s not broken, try harder

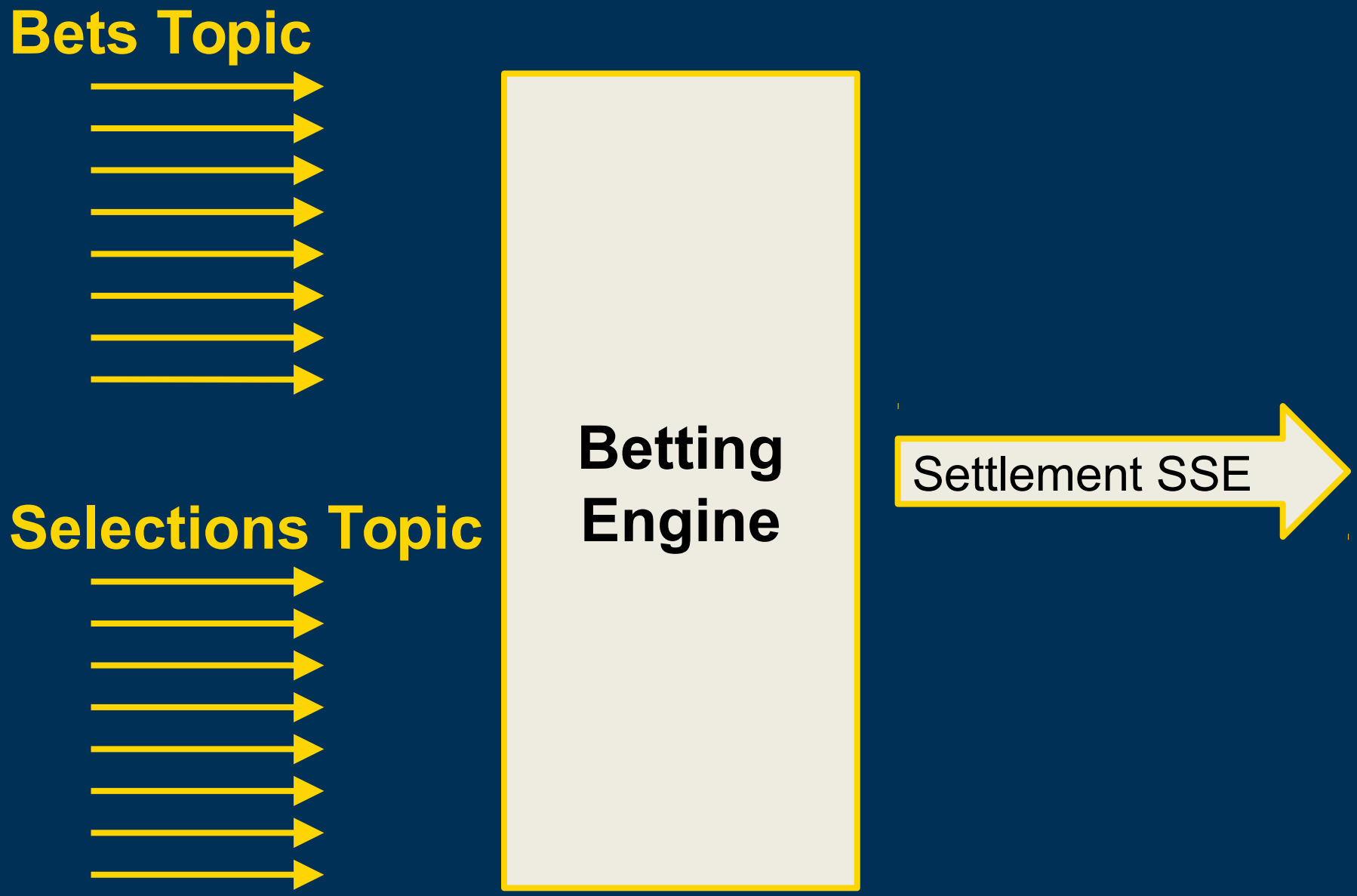


kafka

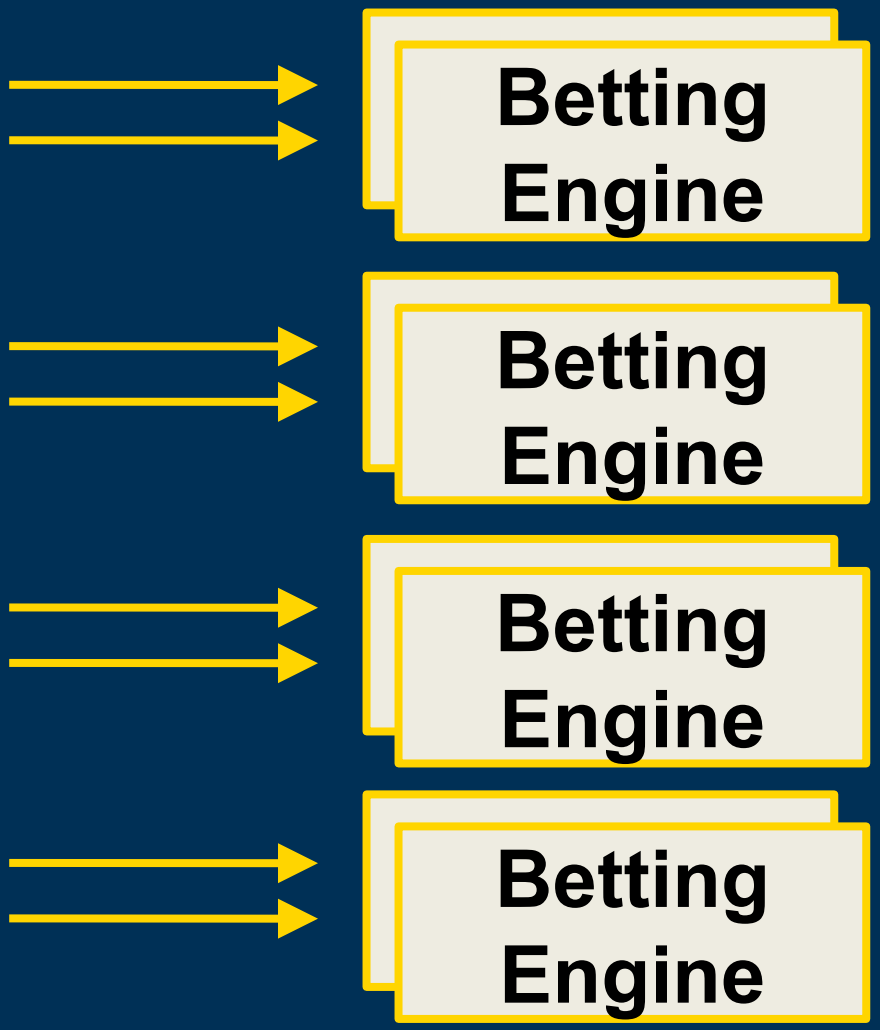
Scala

KENWOOD
STEREO CASSETTE DECK KX-550HX
TAPE COUNTER
RESET
OPERATING IND.
PLAY
REC
AUTO TAPE SEL.
NORM
CrO2
METAL
PEAK LEVEL METER
DPSS
DIRECT PROGRAM SEARCH SYSTEM
TIMER
REC OFF PLAY
DOLBY NR
B OFF C
REC / ARM PAUSE
PAUSE
BIAS ADJ.
DOLBY B-C NR HX PRO

Bets SSE
Results SSE
Betting Engine
Settlement SSE


Bets Topic
Selections Topic
Betting Engine
Settlement SSE

Bets Topic


Betting Engine
Betting Engine
Betting Engine
Betting Engine

6
8
williamhill.com
William HILL

Platform == Supervision

Current plan

GitLab

/ gitlab_runners · Builds

Search

Build #623 for commit **cd87bdcd** from develop

✔ erlang_18_2_1_build ✔ erlang_18_0_build ✔ erlang_18_0_lcnt_build ✔ erlang_18_1_build ✔ erlang_18_1_lcnt_build ✔ erlang_17_5_build

✔ push_build_on_erlang ✔ docker_base_build ✔ erlang_base_build ✔ polymer ✖ java_8_build Build #623 · ⚠ This build was retried.

✔ passed 59 seconds 2 months ago

```
gitlab-ci-multi-runner 1.0.0~beta.5.gf1300da (f1300da)
Using Docker executor with image docker.rand.dev.williamhill.plc:5000/gitlabci_runner/docker_basic:latest ...
Pulling docker image gitlab/gitlab-runner:build ...
Pulling docker image docker.rand.dev.williamhill.plc:5000/gitlabci_runner/docker_basic:latest ...

Running on runner-d7cf894b-project-2-concurrent-0 via 489384b75cef...
Fetching changes...
HEAD is now at bfa936d Added Erlanf 18.2.1
From https://git.rand.dev.williamhill.plc/gstevenson/gitlab_runners
   bfa936d..cd87bdc  develop    -> origin/develop
Checking out cd87bdcd as develop...
Previous HEAD position was bfa936d... Added Erlanf 18.2.1
HEAD is now at cd87bdc... Fixed docker tag for 18.2.1

$ docker build --pull=true --no-cache=true --force-rm=true -t docker.rand.dev.williamhill.plc:5000/gitlabci_runner/docker_basic:l
atest docker_basic
Sending build context to Docker daemon 6.144 kB
Sending build context to Docker daemon
Step 1 : FROM docker-registry.prod.williamhill.plc/library/rhel7:7.1
Trying to pull repository docker-registry.prod.williamhill.plc/library/rhel7 ... 219febbe72c9: Pulling image (7.1) from docker-re
gistry.prod.williamhill.plc/library/rhel7
219febbe72c9: Pulling image (7.1) from docker-registry.prod.williamhill.plc/library/rhel7, endpoint: https://docker-registry.pro
```

Build #623

Retry Erase

Duration: 59 seconds

Created: 2 months ago

Finished: 2 months ago

Runner: #1

Commit cd87bdcd

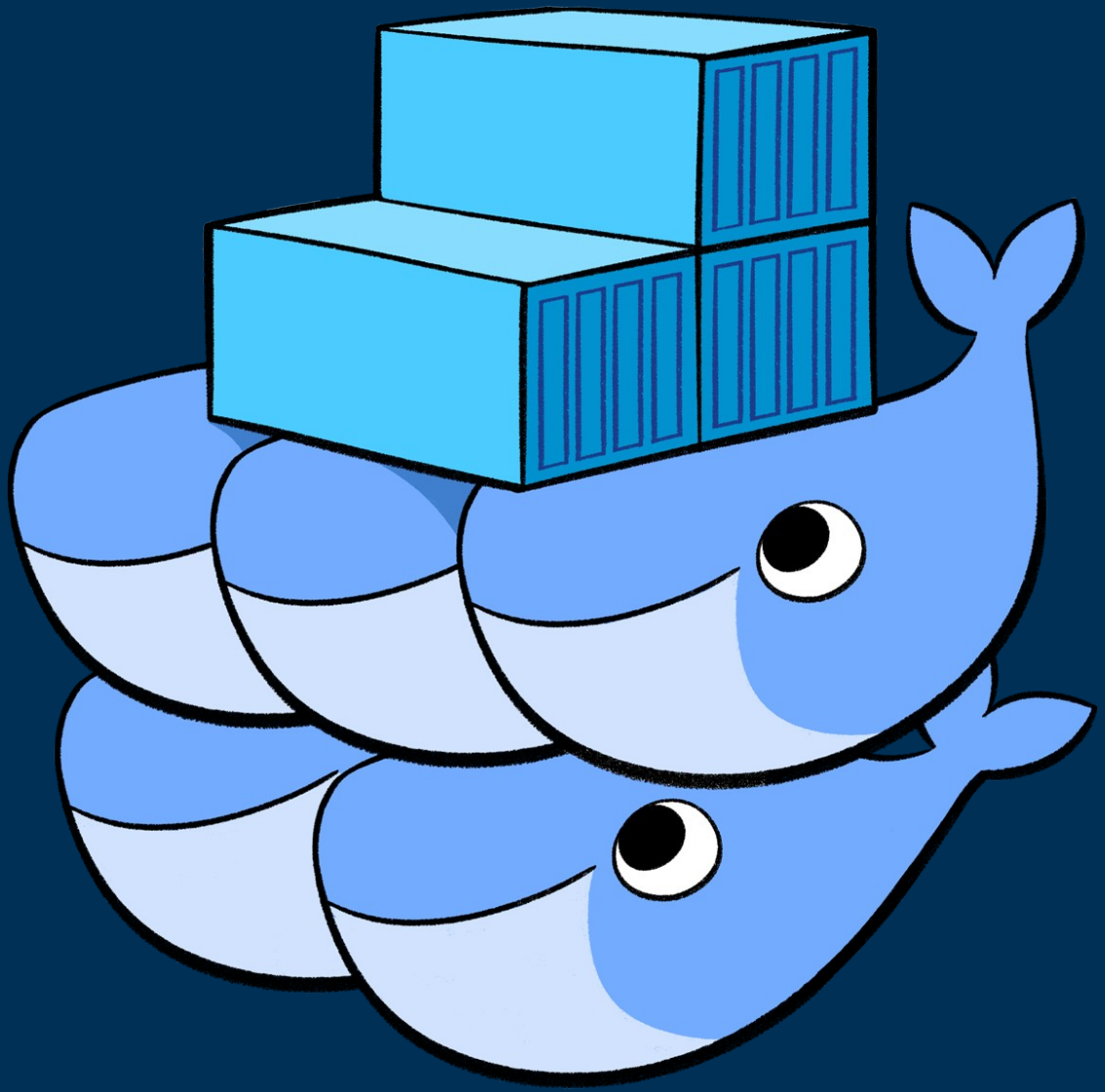
Branch: develop

Author: Gavin Stevenson

Message: Fixed docker tag for 18.2.1

```
[gstevenson@wh5003077 llb] $ cat .gitlab-ci.yml
types:
    - build

build:
    type: build
    tags:
        - POLYMER
    script:
        - sh build-info.sh
        - npm install
        - bower --allow-root install
        - gulp
        - docker build --pull=true --no-cache=true --tag docker/gstevenson/l
lb:latest .
        - docker push docker/gstevenson/llb:latest
[gstevenson@wh5003077 llb] $
```

docker



Discovery and load balancing in the Swarm

NO
STOPPING

A Reactive Micro Service based architecture right?

Which language is right for our enterprise?

Erlang, Scala, Java, Ruby, Python, Go, c#, vb.net, c, c++, assembly, JavaScript....

I think that is the wrong question

We're hiring
DEVOPS
SOFTWARE
ENGINEERS
CLOUD
QUALITY
CYBER SECURITY
EXPERIENCED IN: CSS, JAVASCRIPT, OBJECTIVEC, SWIFT, ANDROID, JAVA, FUNCTIONAL PROGRAMMING, SCALA,
KAFKA, NOSQL, CASSANDRA, NODE.JS, ANGULAR, REACT, LINUX, DOCKER, MESOS, VMWARE, PUPPET, SPLUNK.