

# Household INFOSEC in a Post-Sony Era

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Data Integrity  
Data Privacy  
Data Availability  
Resource Control





School



Privacy (lack of)

# How to Quantify Risk?

Vulnerability

(1, 0)

~~Kerberos~~  
· ZK  
· Dad cont  
auth login

Kerberos Diag  
via Keypair  
abcdefg

- 4. kinit bin
- JCE Probe
- GAK
- native
- quick
- query?
- native properties vs extra ?
- on key cache loc.

.. required mode path

- "host"
- "yarn"
- "zookeeper"
- "dns"

auth = single

look up specifics

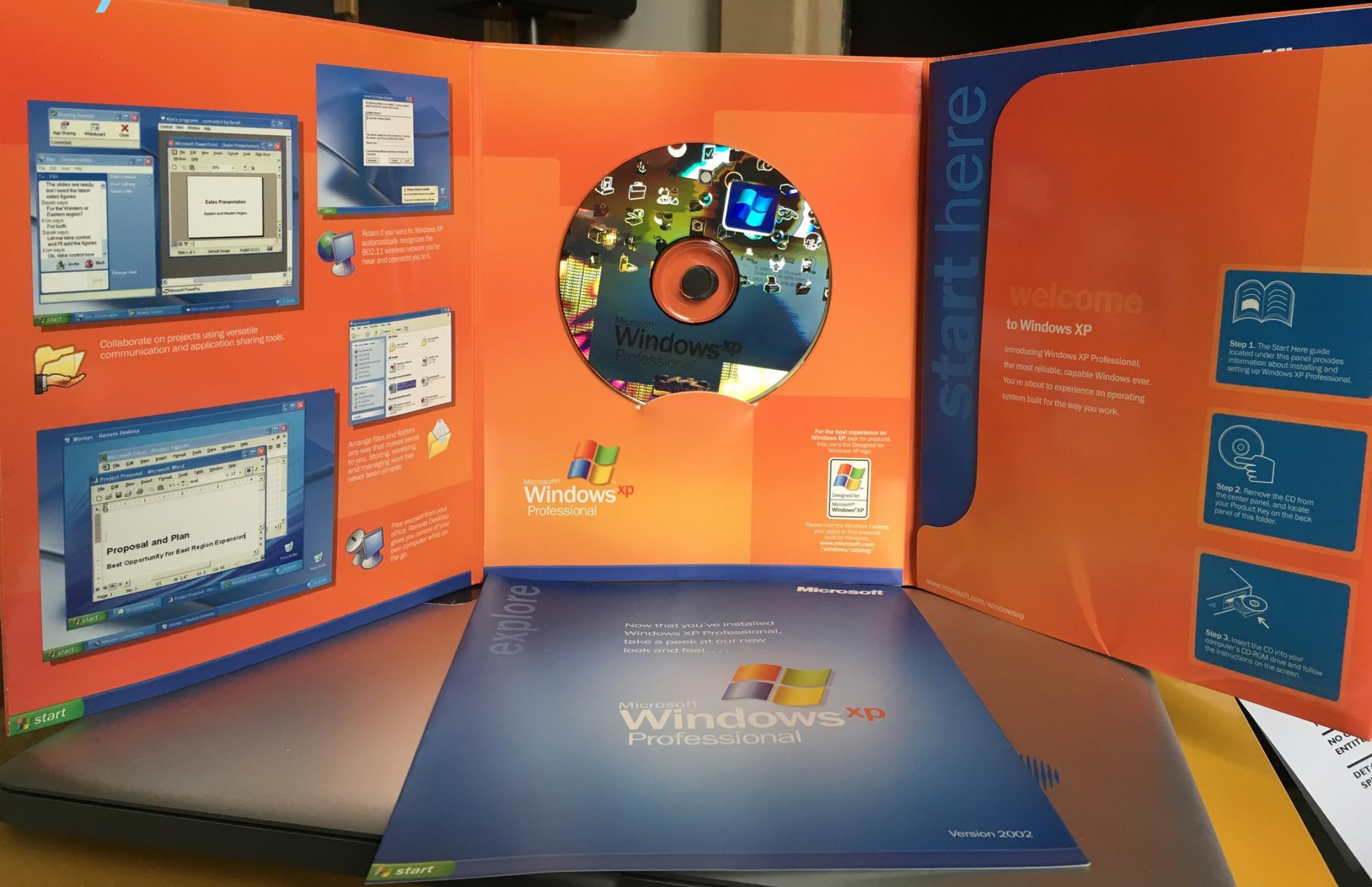
clock score dss

Cipher.getMaxAllowedKeyLength ("")  
= 256.



CAMBRIDGE

(11, 1)



(\*, 11)





# Firefox (8, 2)

The Firefox window shows the version 44.0.2. A progress bar at the top indicates a download of 18.1 of 31.1 MB. The text "Firefox is designed by Mozilla, a global community working together to keep the Web open, public and accessible to all." is displayed below the progress bar.

**Adblock Plus Filter Preferences**

**Filter subscriptions**   **Custom filters**

**Add filter subscription...**

	Last modified	Action
EasyList (Homepage, Filter list)	31/05/2016, 10:19	Actions
EasyPrivacy (Homepage, Filter list)	01/06/2016, 10:14	Actions
Disable Malware (Homepage, Filter list)	01/06/2016, 10:14	Actions
Adblock Warning Removal List (Homepage, Filter list)	31/05/2016, 16:42	Actions

Allow some non-intrusive advertising [View list](#) [Read more](#)

[Backup and Restore](#)

**Find**   **Filter actions**   **Add filter**

**Filter rule**

! Last modified: 31 May 2016 09:10 UTC  
! Licence: <https://easylist.github.io/pages/licence.html>

!

! Please report any unblocked adverts or problems

! in the forums (<https://forums.lanik.us/>)

! or via e-mail ([easylist.subscription@gmail.com](mailto:easylist.subscription@gmail.com)).

!

-----General advert blocking filters-----

! \*\*\* easylist:easylist/easylist\_general\_block.txt \*\*\*

Filter rule	Enabled	Hits
&ad_box_	<input checked="" type="checkbox"/>	0
&ad_channel=	<input checked="" type="checkbox"/>	0
&ad_classid=	<input checked="" type="checkbox"/>	0
&ad_height=	<input checked="" type="checkbox"/>	0
&ad_keyword=	<input checked="" type="checkbox"/>	0
&ad_network_	<input checked="" type="checkbox"/>	0
&ad_number=	<input checked="" type="checkbox"/>	0
&ad_type=	<input checked="" type="checkbox"/>	0
&ad_type_	<input checked="" type="checkbox"/>	0

**Close**

Accept cookies from sites

Accept third-party cookies: **Always**

Keep until: **I close Firefox**



# Chrome: (8, 10)

Chrome

History

Extensions

Settings

About

Version 50.0.2661.86 (64-bit)

Updating Google Chrome

Set Up Automatic Updates

About

AdBlock

GENERAL FILTER LISTS CUSTOMIZE

Subscribe to filter lists

Don't subscribe to more than you need -- every one slows you down a tiny bit! Credits and more lists can be found at [adblockplus.org](#).

I will fetch updates automatically; you can also [update now](#)

Ad Blocking Filter Lists

Acceptable Ads (recommended)  
 AdBlock custom filters (recommended) updated 3 days ago  
 EasyList (recommended) updated 4 days ago  
Add filters for another language: [-- Select Language --](#)

Other Filter Lists

Adblock Warning Removal list (removes warnings about using ad blockers)  
 Antisocial filter list (removes social media buttons)  
 EasyPrivacy (privacy protection)  
 Fanboy's Annoyances (blocks in-page pop-ups, social media and related widgets, and other annoyances)  
 Malware protection updated 13 seconds ago  
 Should AdBlock notify you when it detects malware? [Beta](#)

Custom Filter Lists

Or enter a URL:  [Subscribe](#)

Show links to the filter lists

Saved passwords

Steve

https://passwords.google.com/settings/passwords

Google

Steve

Saved passwords

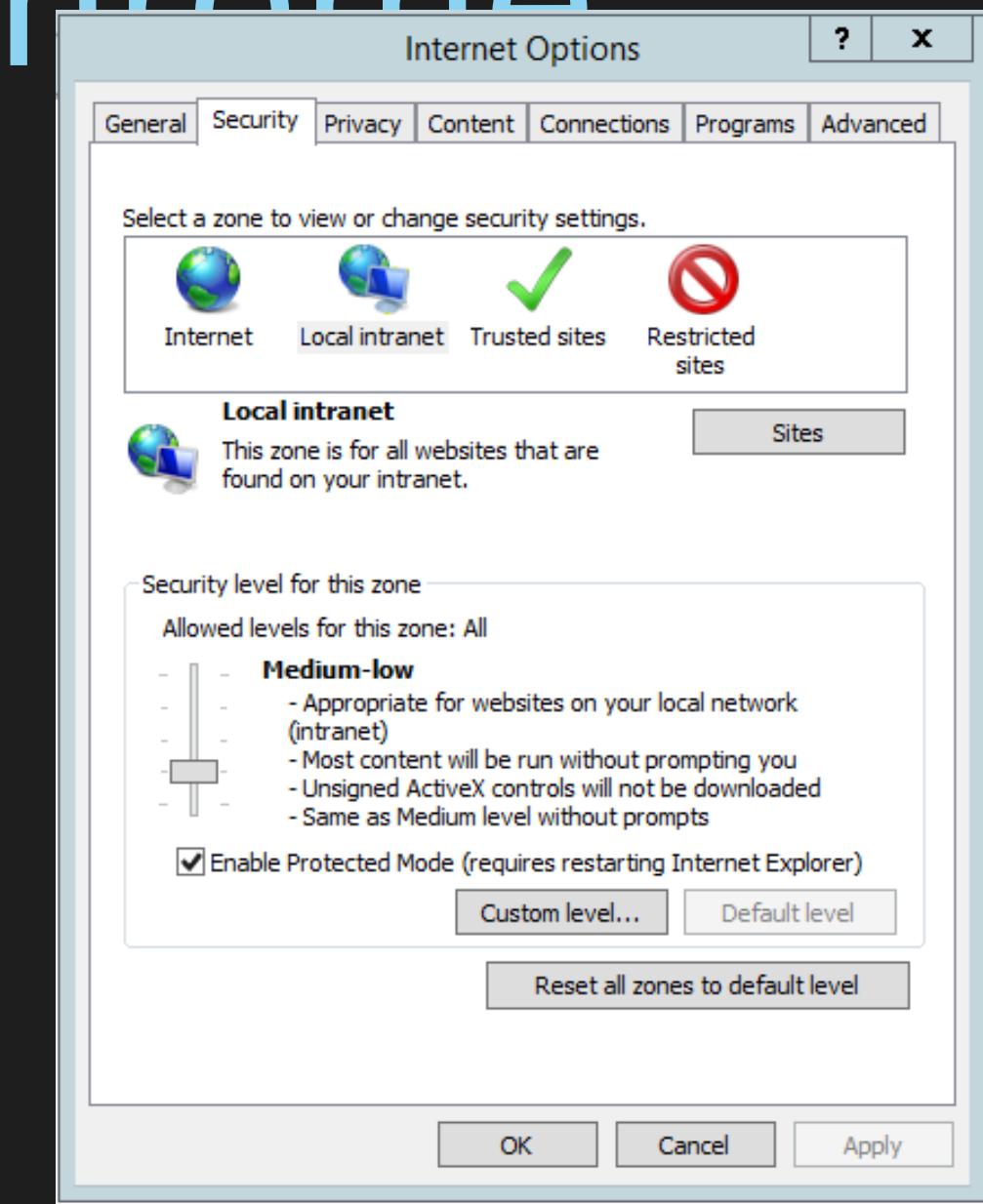
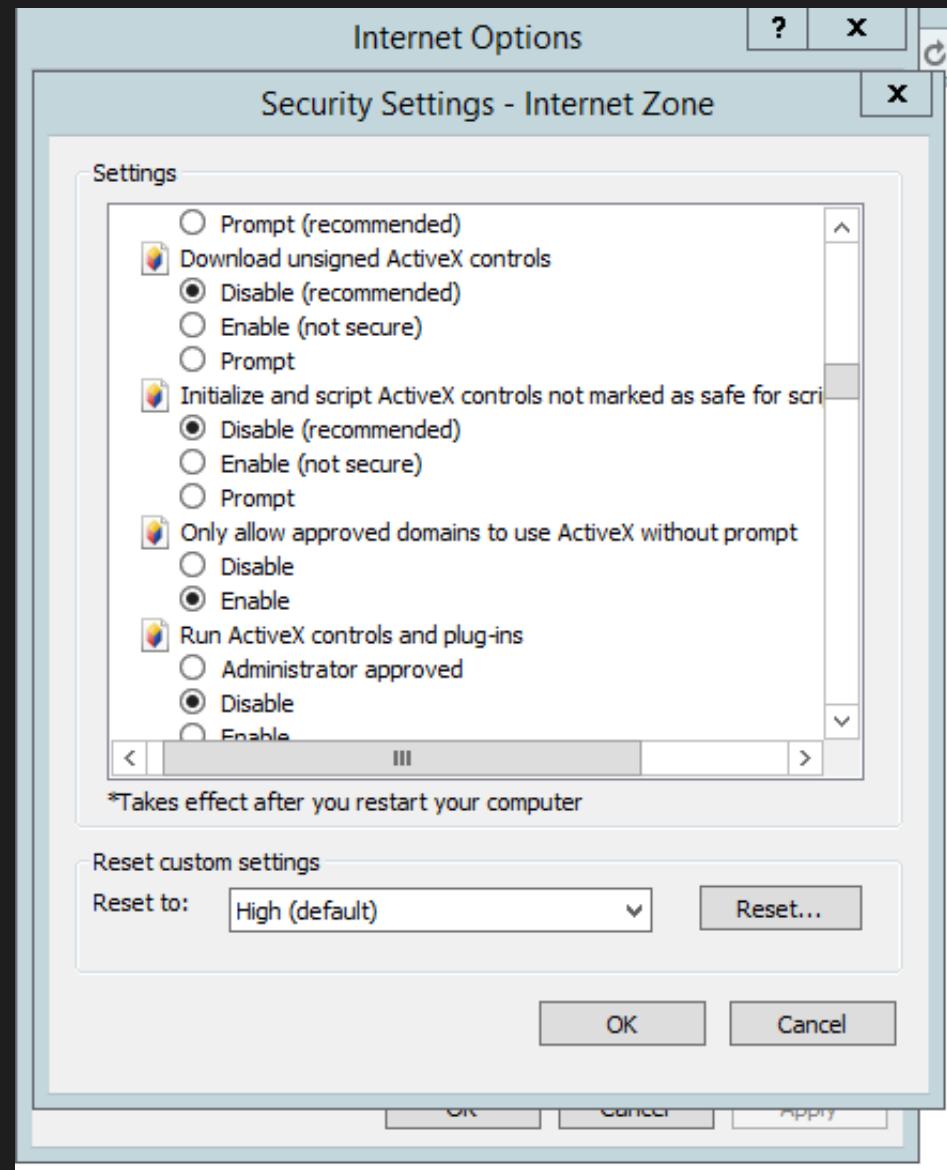
Your passwords from Chrome and Android are saved with Google Smart Lock and accessible to you across devices.

You don't have any passwords saved in Chrome, or you are not syncing them. [Change settings](#).

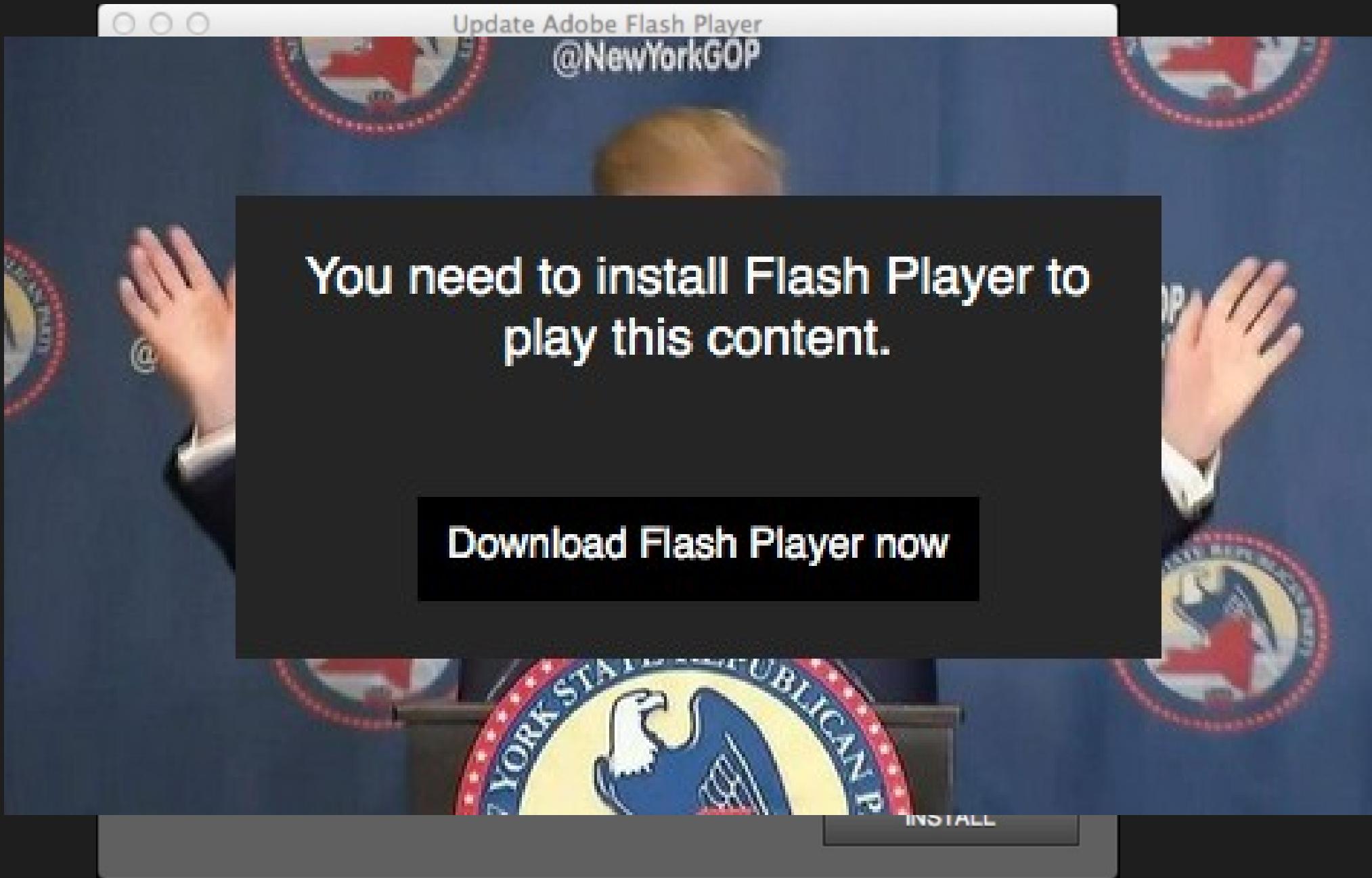
Google Terms & Privacy Help



# IE. 11. Use to D/L firefox or chrome



ash (9->10, 4)



Privacy (lack of)

Vulnerability



trouble



iPad

iPhone  
PS4

-Airplay  
Amplifier

-LG  
TV

LGTv3.pcapng [Wireshark 1.10.2 (SVN Rev 51934 from /trunk-1.10)]

File Edit View Go Capture Analyze Statistics Telephony Tools Internals Help

Filter: Expression... Clear Apply Save

Frame	Source IP	Destination IP	Protocol	Description
1529	312.3989910	192.168.1.2	igmp.mcast.net	IGMPv3 60 Membership Report / Join group 224.0.0.113 for any sources
1530	318.7534550	192.168.1.2	192.168.100.1	DNS 80 Standard query 0x9034 A GB.ibis.lgappstv.com
1531	318.7800970	192.168.100.1	192.168.1.2	DNS 96 Standard query response 0x9034 A 193.67.216.128
1532	318.7805940	192.168.1.2	GB.ibis.lgappstv.com	TCP 74 50596 > http [SYN] Seq=0 Win=14600 Len=0 MSS=1460 SACK_PERM=1 TSval=6684 TSecr=0 WS=32
1533	318.8063410	GB.ibis.lgappstv.com	192.168.1.2	TCP 74 http > 50596 [SYN, ACK] Seq=0 Ack=1 Win=5792 Len=0 MSS=1418 SACK_PERM=1 TSval=3302232552 TS
1534	318.8065140	192.168.1.2	GB.ibis.lgappstv.com	TCP 66 50596 > http [ACK] Seq=1 Ack=1 Win=14624 Len=0 TSval=6689 TSecr=3302232552
1535	318.8069150	192.168.1.2	GB.ibis.lgappstv.com	HTTP 1149 POST /ibs/v2.2/service/watchInformation.xml HTTP/1.1 (application/x-www-form-urlencoded)
1536	318.8422630	GB.ibis.lgappstv.com	192.168.1.2	TCP 66 http > 50596 [ACK] Seq=1 Ack=1084 Win=8704 Len=0 TSval=3302232588 TSecr=6689
1537	318.8495040	GB.ibis.lgappstv.com	192.168.1.2	HTTP/XML 1174 HTTP/1.1 200 OK
1538	318.8495390	GB.ibis.lgappstv.com	192.168.1.2	TCP 66 http > 50596 [FIN, ACK] Seq=1109 Ack=1084 Win=8704 Len=0 TSval=3302232594 TSecr=6689
1539	318.8497510	192.168.1.2	GB.ibis.lgappstv.com	TCP 66 50596 > http [ACK] Seq=1084 Ack=1109 Win=16832 Len=0 TSval=6698 TSecr=3302232594
1540	318.8502100	192.168.1.2	GB.ibis.lgappstv.com	TCP 66 50596 > http [FIN, ACK] Seq=1084 Ack=1110 Win=16832 Len=0 TSval=6698 TSecr=3302232594
1541	318.8760270	GB.ibis.lgappstv.com	192.168.1.2	TCP 66 http > 50596 [ACK] Seq=1110 Ack=1085 Win=8704 Len=0 TSval=3302232622 TSecr=6698

X-Device-Platform:NC4M\r\nX-Device-Model:HE\_DTV\_NC4M\_AFAAABAA\r\nX-Device-Netcast-Platform-Version:0004.0002.0000\r\nX-Device-Country:GB\r\nX-Device-Country-Group:EU\r\nX-Device-ID:2yxQ5kEhf45fjUD35G+E/xdq7xxWE2ghu0j4an9kbGoNcyWaSsoLgyk8JJJoMtjRrYRsVS6mHKy/Zdd6nZp+Y+gK6DVqnbQeDqr16YgacdZKU80sCKw0Ai1TwIQov/S1B\r\nX-Authentication:YMu3V1dv8m8JD0ghrsmETOxONDI=\r\ncookie:JSESSIONID=3BB87277C55EED9489B6E6B2DEA7C9FD.node\_sdplibis10; Path=/\r\n► Content-Length: 463\r\nContent-Type: application/x-www-form-urlencoded\r\n\r\n[Full request URI: http://GB.ibis.lgappstv.com/ibs/v2.2/service/watchInformation.xml]\r\n[HTTP request 1/1]\r\n[Response in frame: 1537]\r\n▼ Line-based text data: application/x-www-form-urlencoded\r\n[truncated] &chan\_name=BBC NEWS&device\_src\_idx=1&dtv\_standard\_type=2&broadcast\_type=2&device\_platform\_name=NETCAST 4.0\_mtk5398&chan\_code=251533447-AF06B3CC8ACE450D32BF26439B8I\r\n\r\n02a0 75 72 6c 65 6e 63 6f 64 65 64 0d 0a 0d 0a 26 63 urlencod ed....&c\r\n02b0 68 61 6e 5f 6e 61 6d 65 3d 42 42 43 20 4e 45 57 han\_name =BBC NEW\r\n02c0 53 26 64 65 76 69 63 65 5f 73 72 63 5f 69 64 78 S&device\_src\_idx\r\n02d0 3d 31 26 64 74 76 5f 73 74 61 6e 64 61 72 64 5f =1&dtv\_s tandard\r\n02e0 74 79 70 65 3d 32 26 62 72 6f 61 64 63 61 73 74 type=2&b roadcast\r\n02f0 5f 74 79 70 65 3d 32 26 64 65 76 69 63 65 5f 70 type=2& device\_p\r\n0300 6c 61 74 66 6f 72 6d 5f 6e 61 6d 65 3d 4e 45 54 latform name=NET\r\n0310 43 41 53 54 20 34 2e 30 5f 6d 74 b 35 33 39 38 CAST 4.0\_mtk5398\r\n\r\n

doctorbeet.blogspot.co(?, 10



router manager  
N600 Wireless Dual Band Router model WNDR3400

Select Language:

Auto

Apply

- Setup Wizard
- Add WPS Client

#### Setup

- Basic Settings
  - Wireless Settings
  - Guest Network
- USB Storage**
- Basic Settings
  - Advanced Settings
- Content Filtering**
- Logs
  - Block Sites
  - Block Services
  - Schedule
  - E-mail

#### Maintenance

- Router Status
- Attached Devices
- Backup Settings

## Firmware Version Check

No new firmware version available.

Back

## Router Upgrade Help

You install new versions of the router's software using the Router Upgrade screen.

Click the **Check** button to go to the NETGEAR website to get **new versions** of the router software. After downloading the file, you will need to unzip (or unstuff) it before upgrading the router.

Select the check box if you want to check for a new version upon login.

**IMPORTANT!** Once you click **Upload**, do *not* interrupt the process of sending the software to the router and restarting the router. If you think the process might be interrupted in some way, click **Cancel** to keep the current router software.

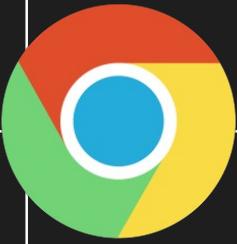
**Locate and select the upgrade file on your hard disk.**

1. Go to [www.NETGEAR.com](http://www.NETGEAR.com) and download the updated software.
2. If it is not done automatically, uncompress the file.  
You might want to read the *Release Notes* before continuing.
3. Click **Browse**.
4. Locate and select the file you just

Privacy (lack of)

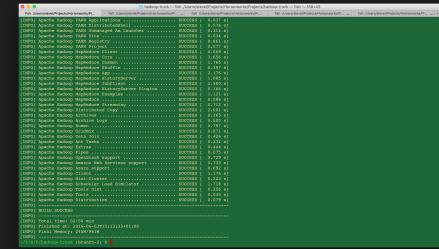


Vulnerability



# CRITICAL

# DMZ



USB



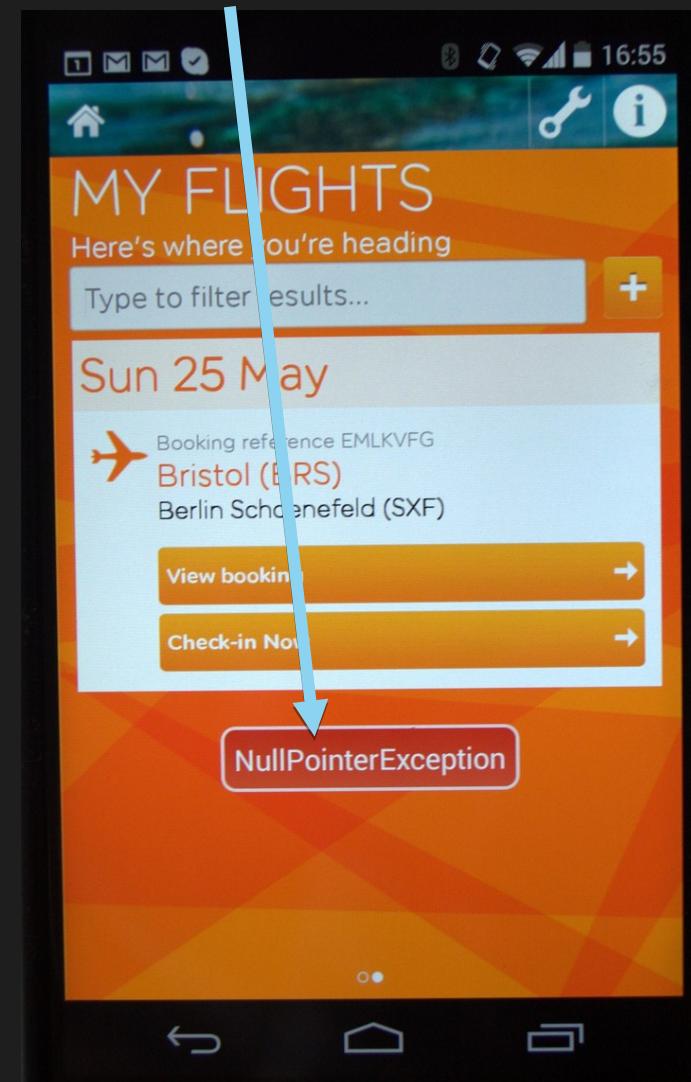
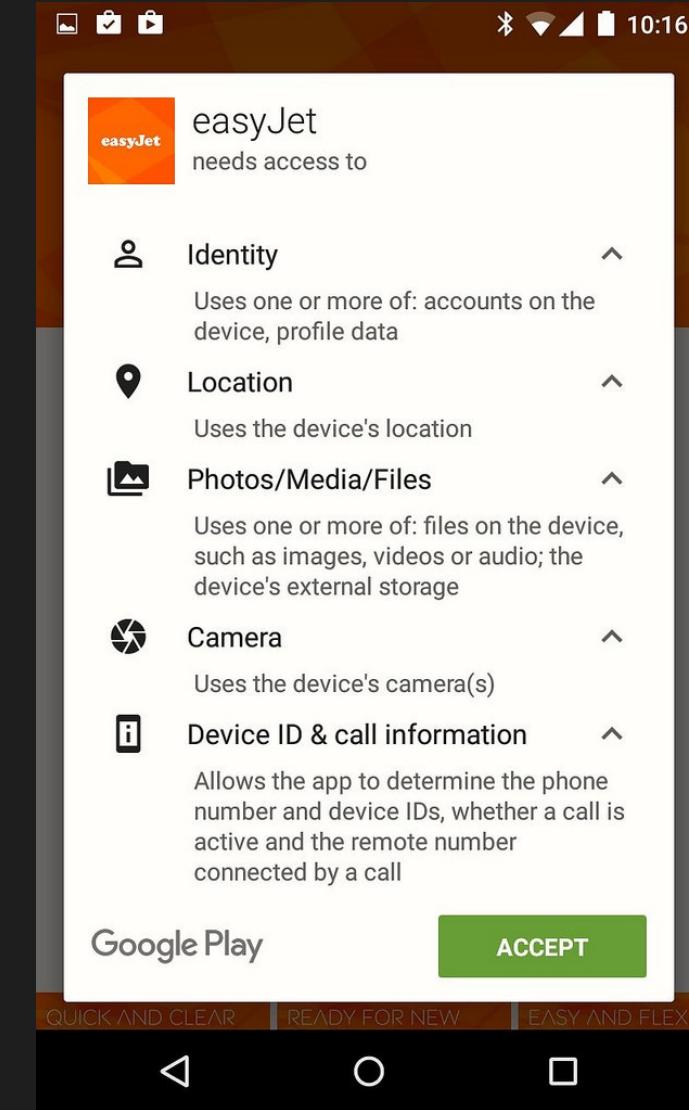
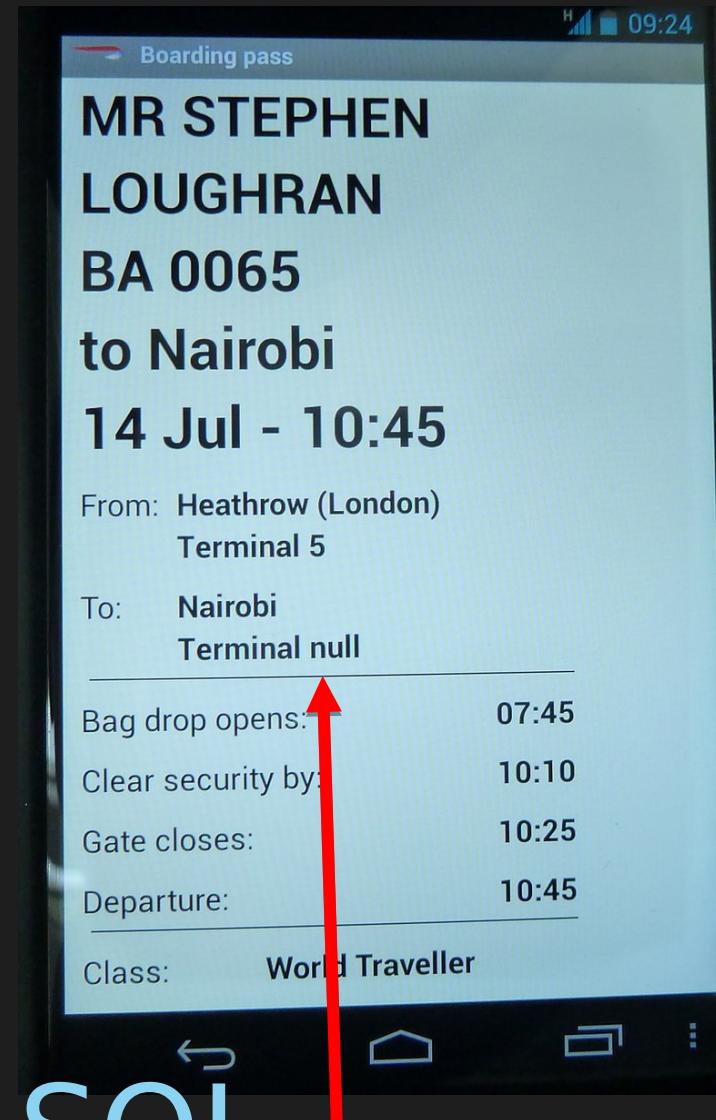
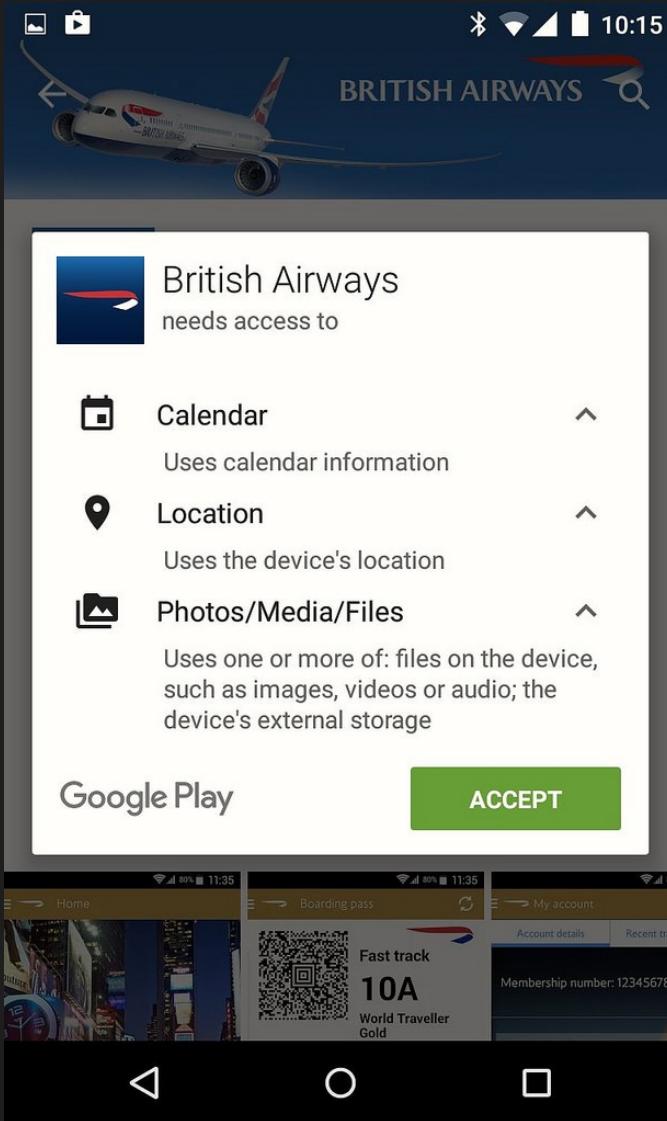
DD-WRT



...

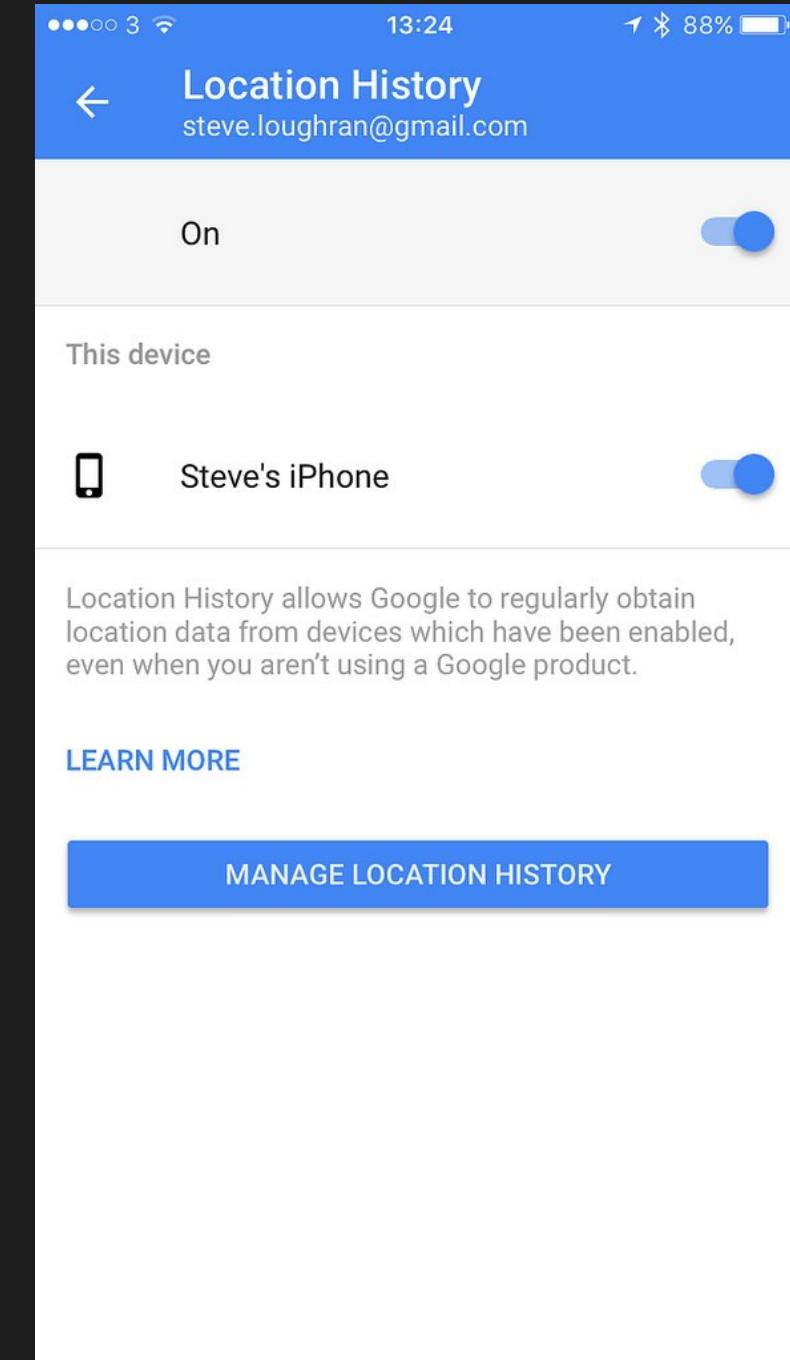
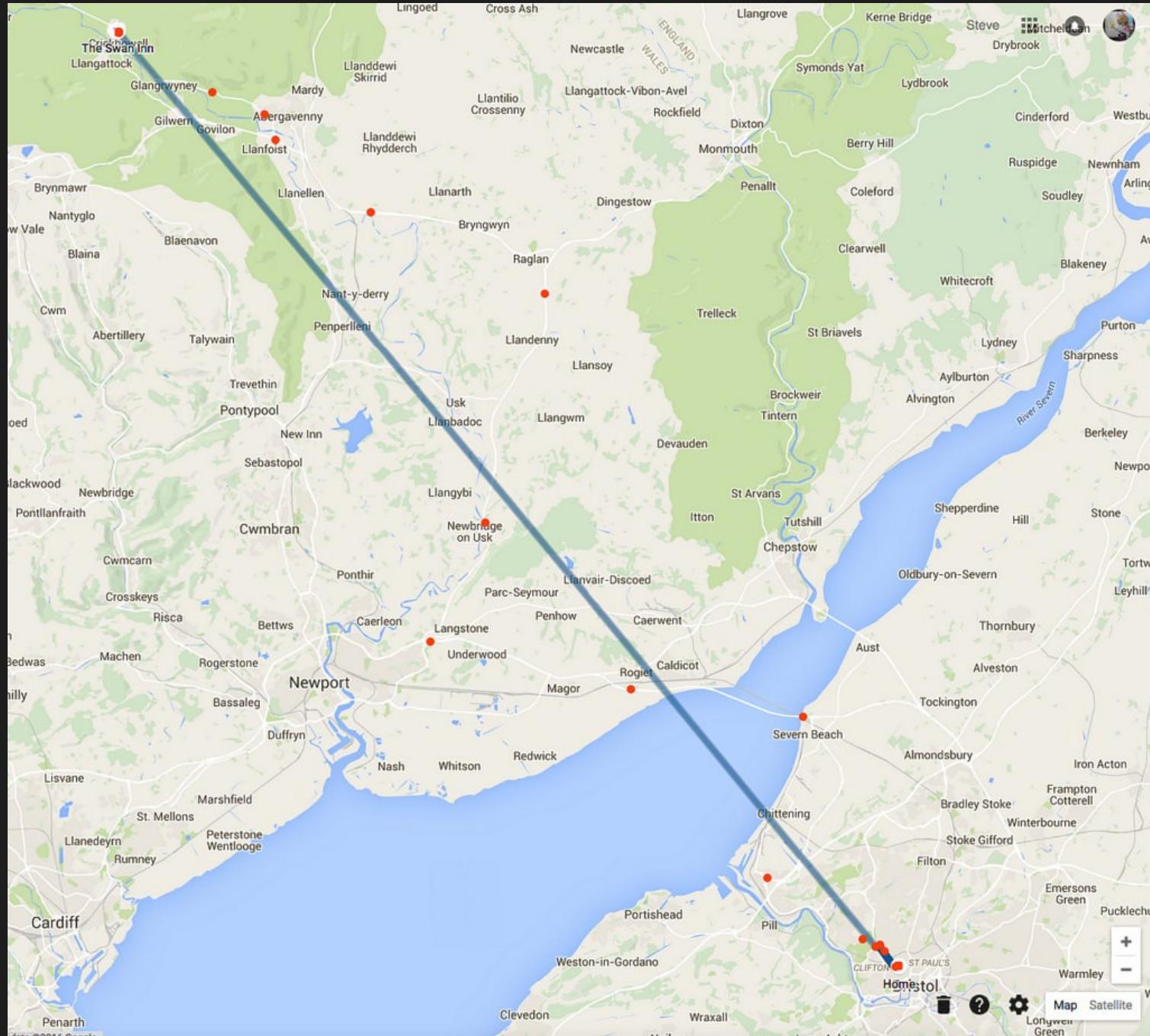
New Netgear  
Firewall

# Other?



SQL validation  
?

(11, ?)



iPhone + Google photos(5,11)

(3,6+





**Settings**

**Activating/deactivating sound**

1. Call up "Options".
2. "Sound"

**Suppressing cookies**

1. Call up "Options".
2. "Block cookies"

**Change to mobile web page view**

1. Call up "Options".
2. "Activate Flash plugin"

**Suppressing pop-ups**

1. Call up "Options".
2. "Block pop-ups"

**Suppress HTTPS warnings**

1. Call up "Options".
2. "Block warnings"

**Delete personal settings**

1. Call up "Options".
2. "Clear personal settings"

HTTPS certificates and history are deleted.



# Privacy (lack of)

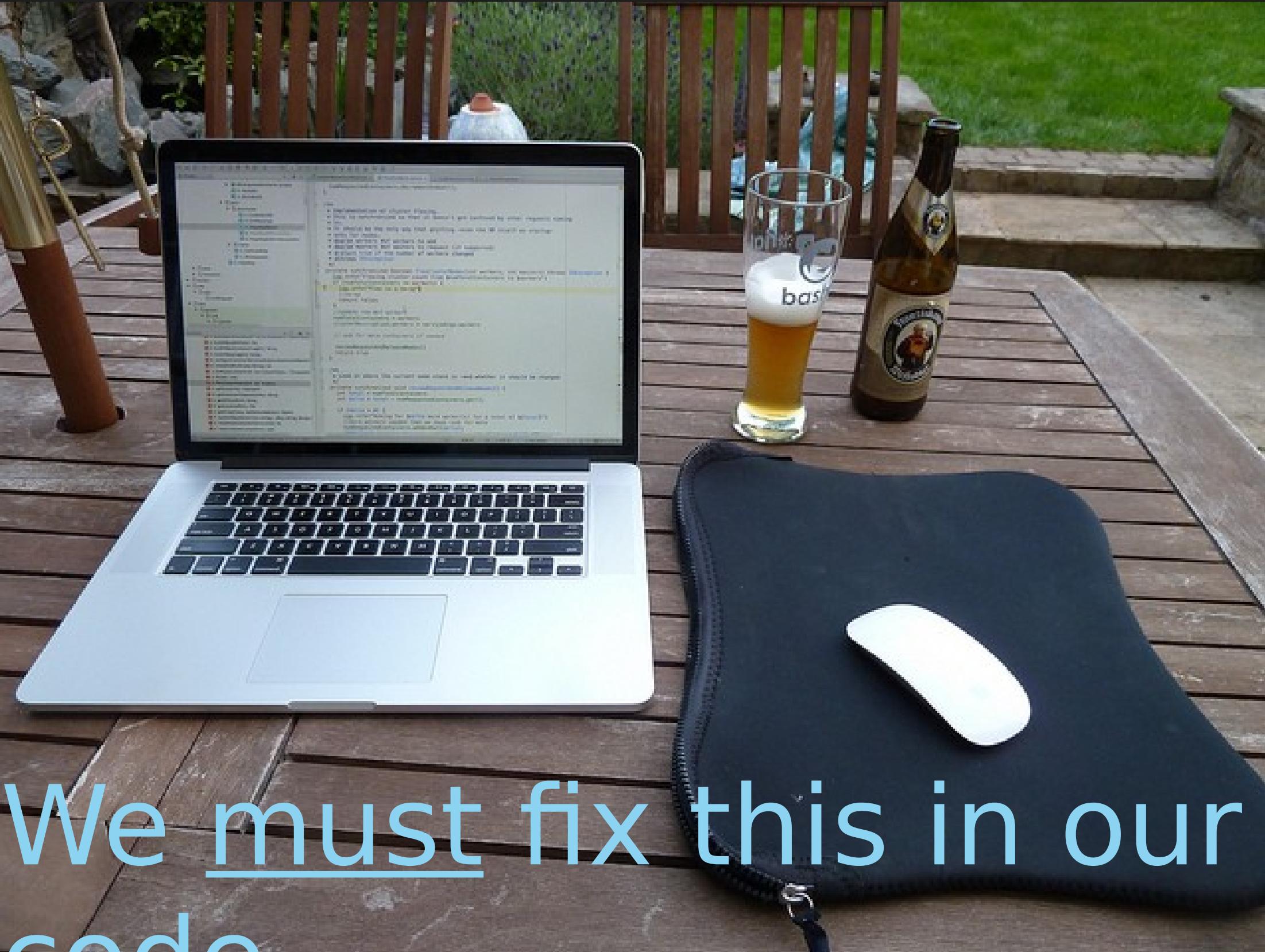


# Vulnerability



# Game over





We must fix this in our  
code

All external data is malicious

All remote interactions leak  
privacy

```
new URL("www.starcon.net.kp").toString();
```

java.net.URL (>2,  
>2)

```
def objectFile[T: ClassTag](  
    path: String,  
    minPartitions: Int): RDD[T] = withScope {  
    sequenceFile(path,  
        classOf[NullWritable],  
        classOf[BytesWritable], minPartitions)  
    .flatMap(x =>  
        Utils.deserialize[Array[T]](  
            x._2.getBytes,  
            Utils.getContextOrSparkClassLoader))  
}
```

ScalaContext (0,

apt-get upgrade  
brew upgrade  
mvn install  
npm update  
yum update  
pip install  
docker pull

(?,

```
apache-hadoop — fish /Users/stevel/Hadoop/commit/apache-hadoop — fish — #2

[~/H/c/apache-hadoop (branch-2) $ git pull
Already up-to-date.
[~/H/c/apache-hadoop (branch-2) $ git apply --whitespace=fix ~/hadoop-patches/work/HADOOP-12767-branch-2-005.patch
[~/H/c/apache-hadoop (branch-2) $ git status
On branch branch-2
Your branch is up-to-date with 'apache/branch-2'.
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

    modified:   hadoop-common-project/hadoop-common/src/main/java/org/apache/hadoop/security/token/delegation/web/DelegationTokenAuthenticationFilter.java
    modified:   hadoop-common-project/hadoop-common/src/main/java/org/apache/hadoop/security/token/delegation/web/ServletUtils.java
    modified:   hadoop-project/pom.xml
    modified:   hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-web-proxy/src/main/java/org/apache/hadoop/yarn/server/webproxy/WebAppProxyServlet.java

no changes added to commit (use "git add" and/or "git commit -a")
[~/H/c/apache-hadoop (branch-2) $ git commit -a -m "HADOOP-12767. Update apache httpclient version to 4.5.2; httpcore to 4.4.4. Artem Aliev via stevel."
[branch-2 151ecdf] HADOOP-12767. Update apache httpclient version to 4.5.2; httpcore to 4.4.4. Artem Aliev via stevel.
 4 files changed, 19 insertions(+), 10 deletions(-)
[~/H/c/apache-hadoop (branch-2) $ git push apache
Counting objects: 32, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (23/23), done.
Writing objects: 100% (32/32), 2.32 KiB | 0 bytes/s, done.
Total 32 (delta 17), reused 0 (delta 0)
remote: hadoop git commit: HADOOP-12767. Update apache httpclient version to 4.5.2; httpcore to 4.4.4. Artem Aliev via stevel.
To https://git-wip-us.apache.org/repos/asf/hadoop.git
 1580871..151ecdf branch-2 -> branch-2
~/H/c/apache-hadoop (branch-2) $
```

# Apache & github secrets

steve.loughran@gmail.com

pwned?

## Oh no — pwned!

Pwned on 1 breached site and found no pastes (subscribe to search sensitive breaches)

 Notify me when I get pwned

 Donate



## Breaches you were pwned in

A "breach" is an incident where a site's data has been illegally accessed by hackers and then released publicly. Review the types of data that were compromised (email addresses, passwords, credit cards etc.) and take appropriate action, such as changing passwords.



**LinkedIn:** In May 2016, LinkedIn had 164 million email addresses and passwords exposed.

Originally hacked in 2012, the data remained out of sight until being offered for sale on a dark market site 4 years later. The passwords in the breach were stored as SHA1 hashes without salt, the vast majority of which were quickly cracked in the days following the release of the data.

**Compromised data:** Email addresses, Passwords

