

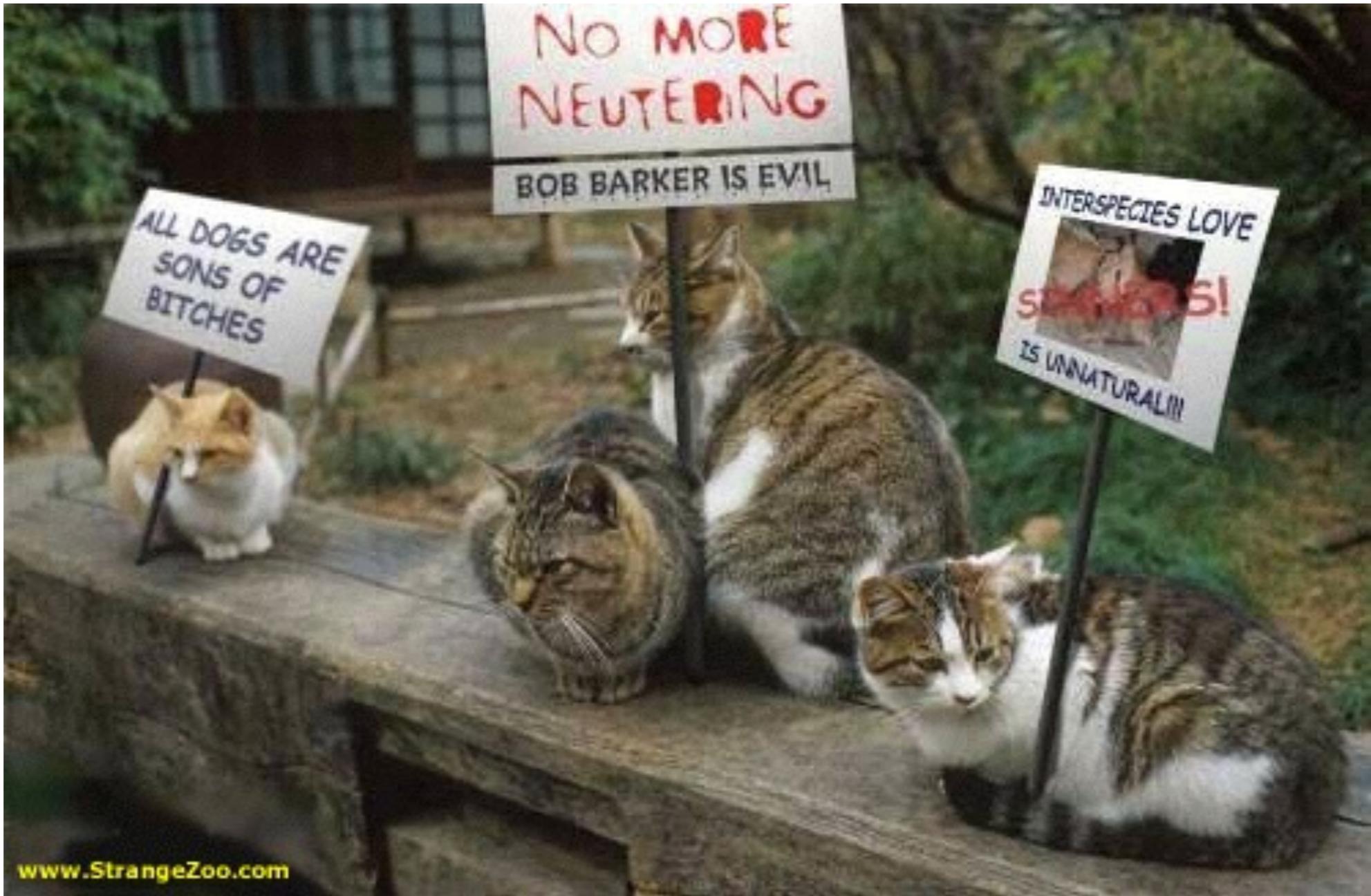


A cats guide to attacking
Websites

DDoS

- Distributed denial of service
- Overload a resource or entire network by sending many standard requests.





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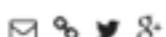
TECH

More: Hackers

The Biggest Cyber Attack In History Is Taking Place Right Now



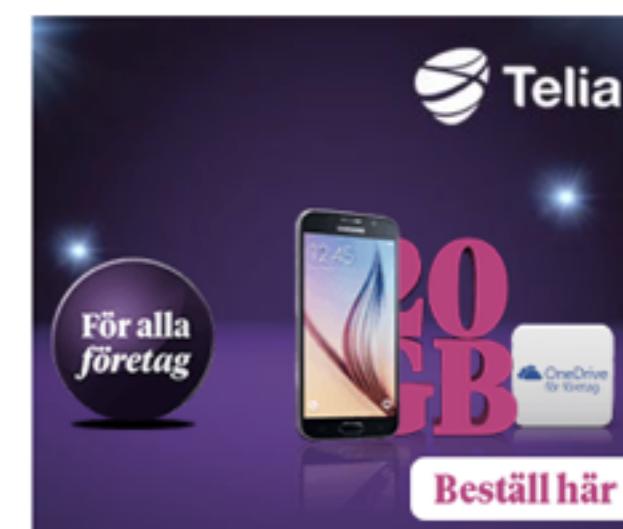
DYLAN LOVE



MAR. 27, 2013, 10:14 AM

102,675

35

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Internet speeds around the world have noticeably slowed down due to a massive "distributed denial of service" attack,



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by Tabo



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W Cross-site request forgery x CW Garden-variety DDoS attack x

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THE AVERAGE

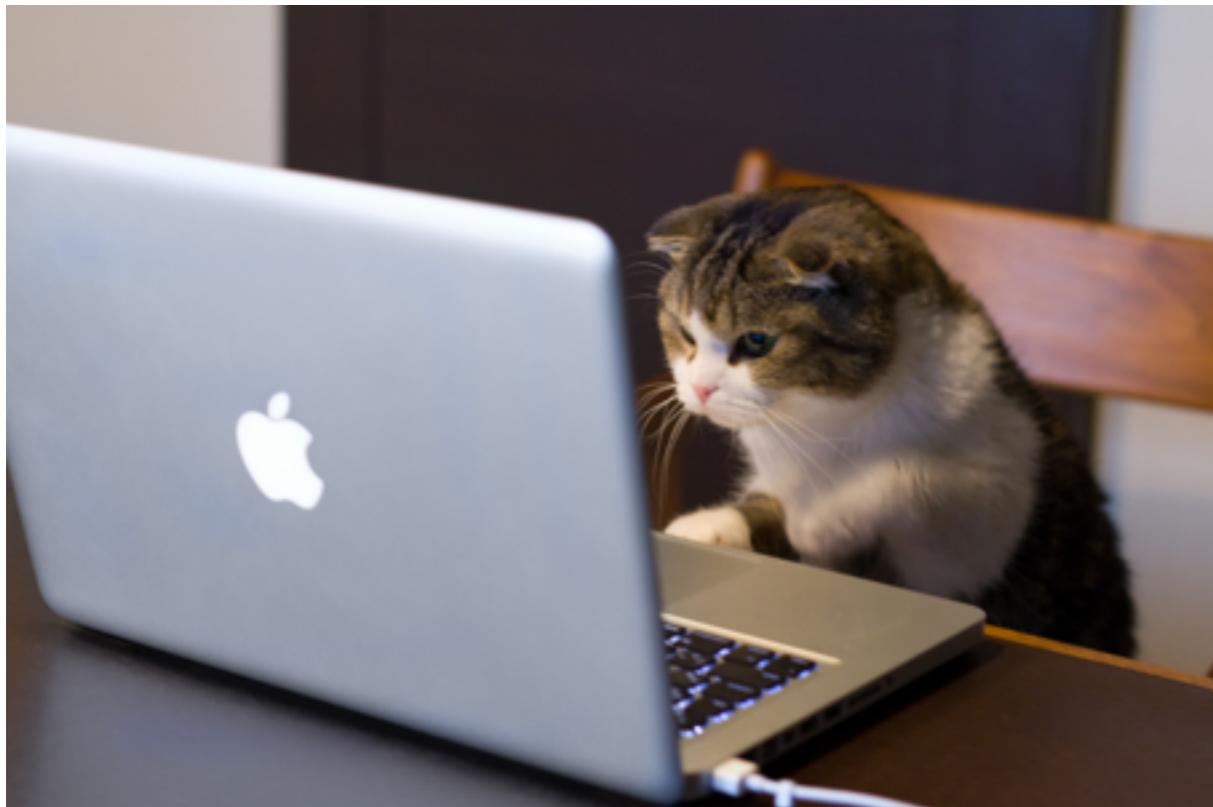
BROWSER	MAX PARALLEL CONNECTIONS PER HOST
IE 6 and 7	2
IE 8	6
IE 9	6
IE 10	8
Firefox 2	2
Firefox 3	6
Firefox 4 to 17	6
Opera 9.63	4
Opera 10	8
Opera 11 and 12	6
Chrome 1 and 2	6
Chrome 3	4
Chrome 4 to 23	6
Safari 3 and 4	4

DDoS Prevention

- Often this is done at a network level. In Routers/ Firewalls.
- In your API you might check IP address or requesting domain and limit requests per second for a given IP. A number of larger api's do this.

Cross-site Request Forgery

Exploits cookie based authentication.



A malicious site in the background makes requests to another site e.g. ask gmail for contact list.

If the user is authenticated in another window the request will execute allowing the malicious site to steal your contacts.

(NB gmail no longer users cookie auth)

Prevention

- Token based authentication, and authentication patterns that require each request to be authenticated by header data.
- Browser inbuilt cross site resource blocking. (Doesn't work for GET requests)

Network Sniffing



Sniffers can see all non encrypted traffic on the local network.

Solution: encrypt requests.

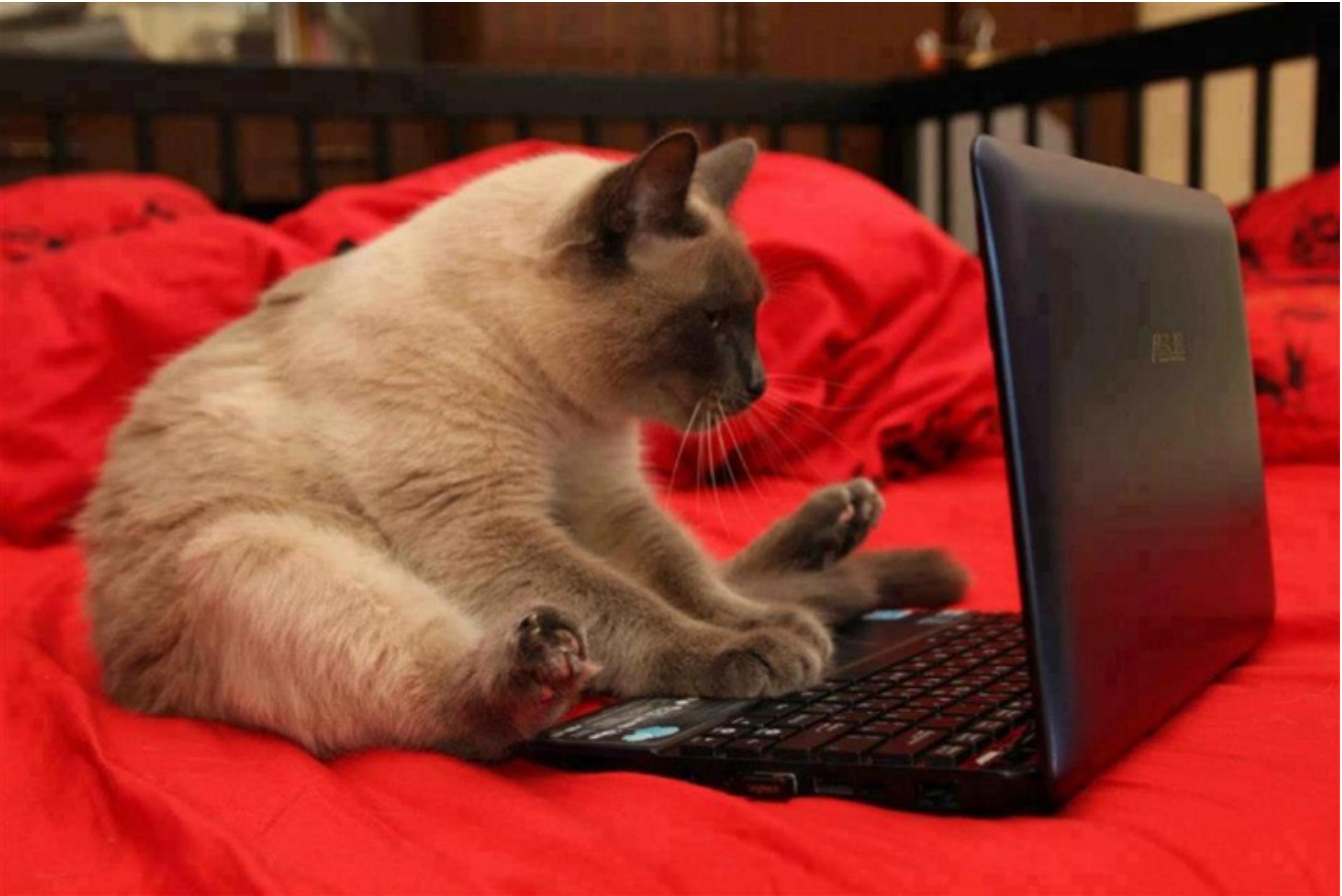
SQL - injection



Placing malicious SQL
into places it shouldn't be.
Usually a text input.

Solution:
Use prepared statements.
On the db limit the access
of the user.

Cross site scripting



Vulnerable XSS

- Global variables,
- Localstorage, localdb etc.
- DOM

Man in the middle attack

Get people to connect to your network.



Act like a proxy but log all the communication.

Solution: signed encryption

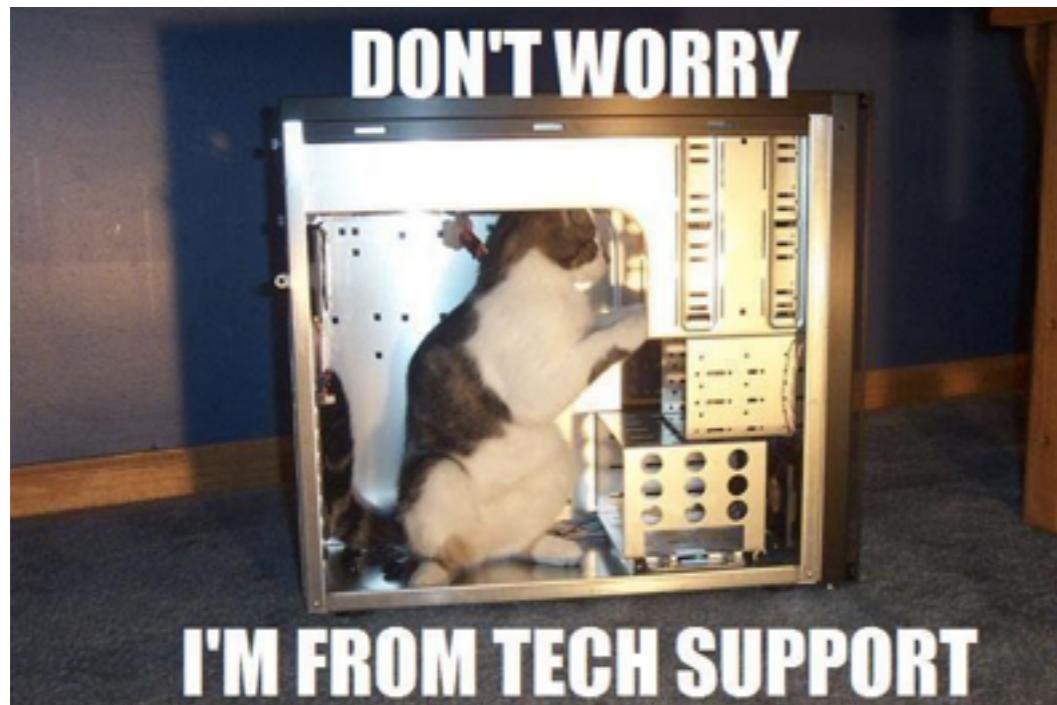
Spoofing



**“Hello Kitty here, I’ve
forgotten my password”**

Why write a script when
you can just use the phone?

Traditional hacking



A malicious person, manages to access the db server.

If passwords are stored in plain text they can download username and password to all users.

Traditional hacking

Prevention:

Keep servers patched.

Have an authentication policy giving system accounts only access to what they need.

Limiting the effect of a breach:

Only save salted passwords in a database.

<https://crackstation.net/hashing-security.htm>