Digital Interruption

Web Application Security

Web applications and the things that go wrong

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MGH

Manchester Grey Hats

@mcrgreyhats

Hands on hacking....things!

Join our slack channel



Quiz!

Phreaking

31337

White Hat

Handle

0-day

Pwned

Black Hat



whoami

Security Consultant at Digital Interruption

@jayHarris_Sec

Mobile | Radio | Reverse Engineering



Why?

Proud of our software

Protecting our customers data

Reputational damage

Compliance

Release on time

(Do you know how expensive an external consultant is?)



Hackazon

What?

Sample of vulnerabilities

Questions? Ask!

Some technical content and explanation



Disclaimer

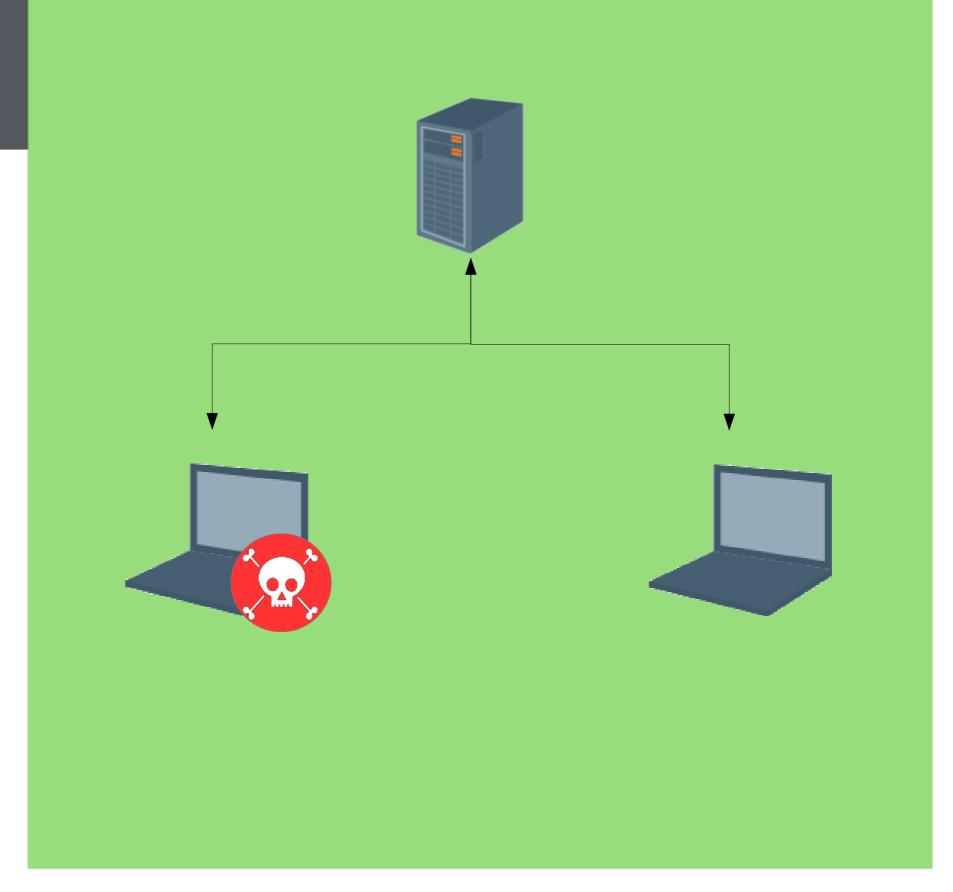
ETHICAL hacking

Any actions and or activities related to the material contained within this presentation is solely your responsibility. The misuse of this information can result in criminal charges brought against the persons in question.

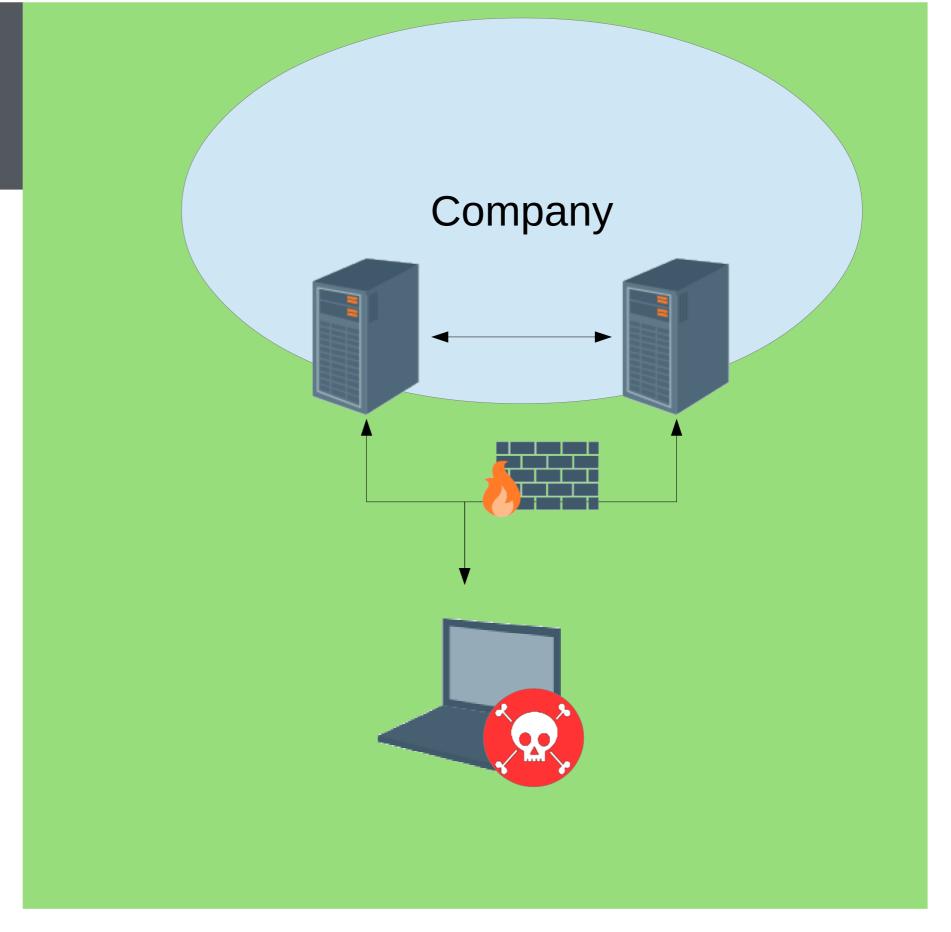
Hack to learn. Don't learn to hack.



Attacking user(s)



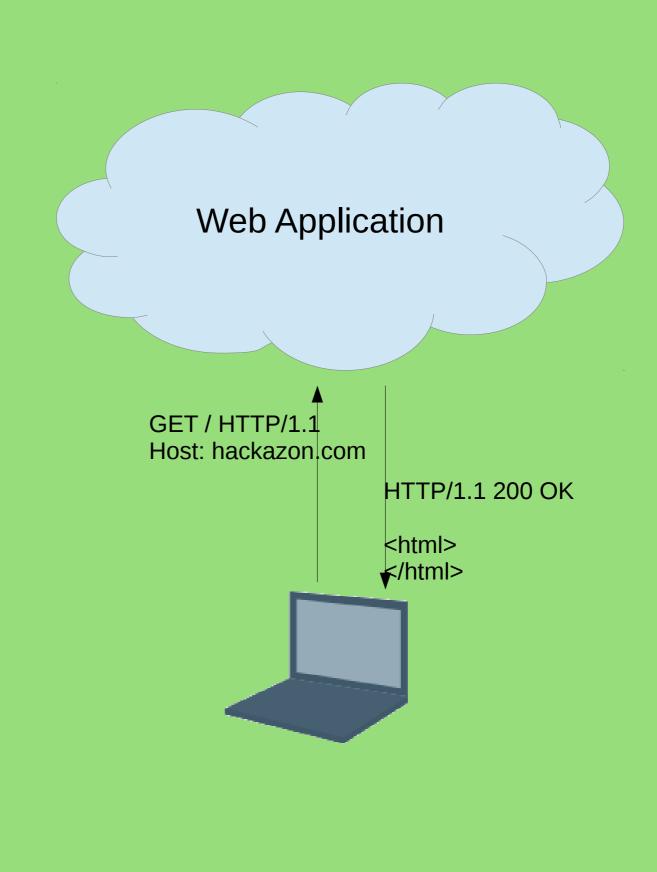




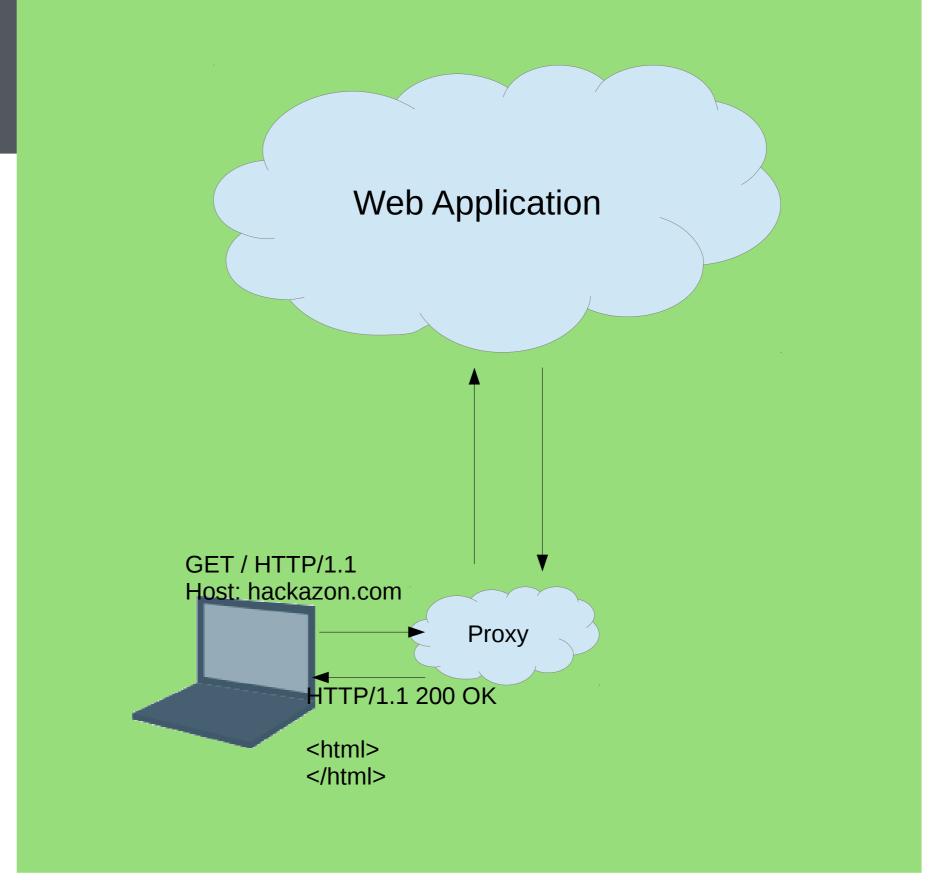


Let's get hacking

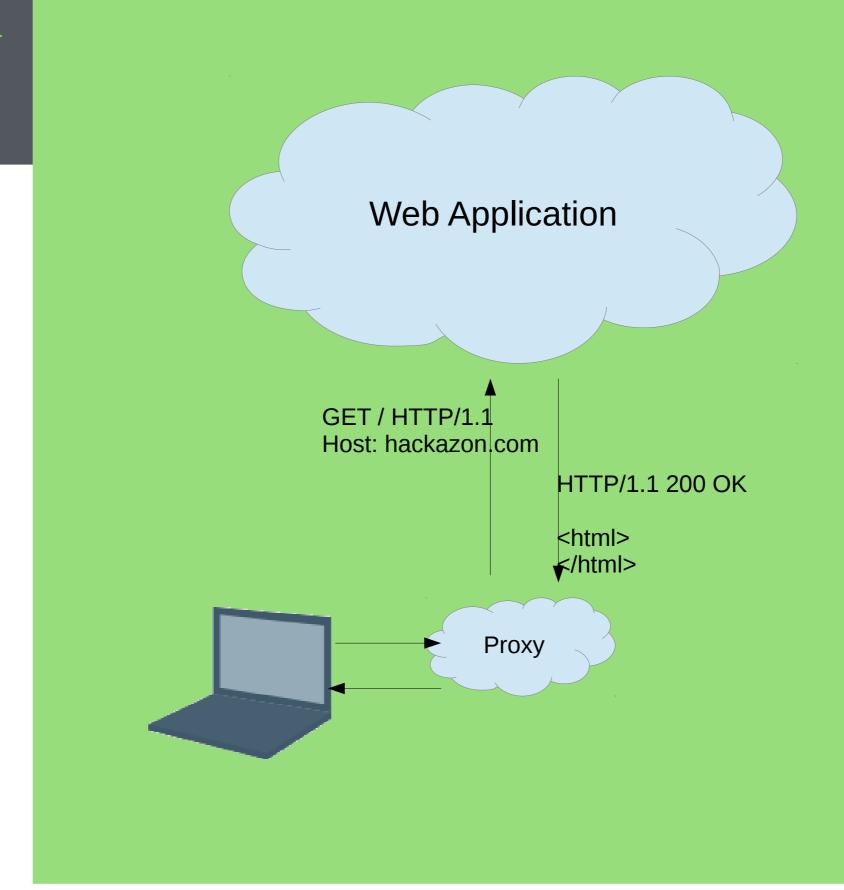




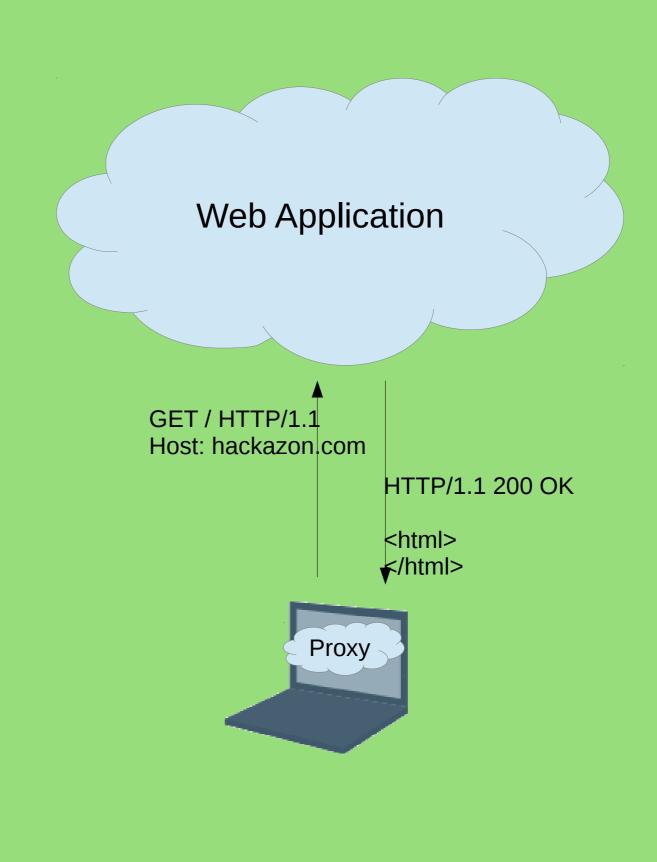














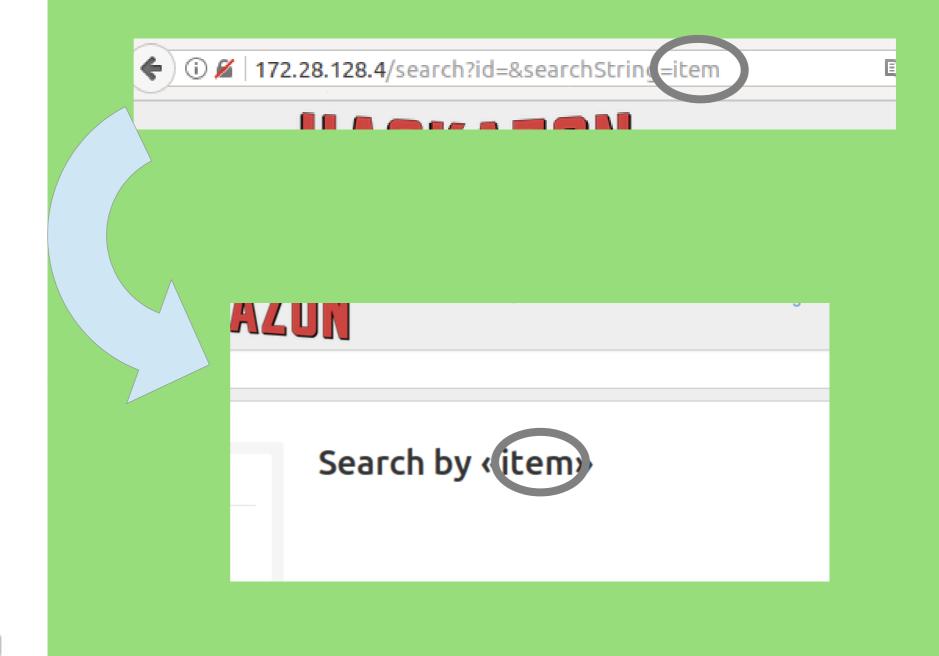
Exercise 0 configuring the environment



Exercise Brute Force Attacks



Reflected XSS





Reflected XSS



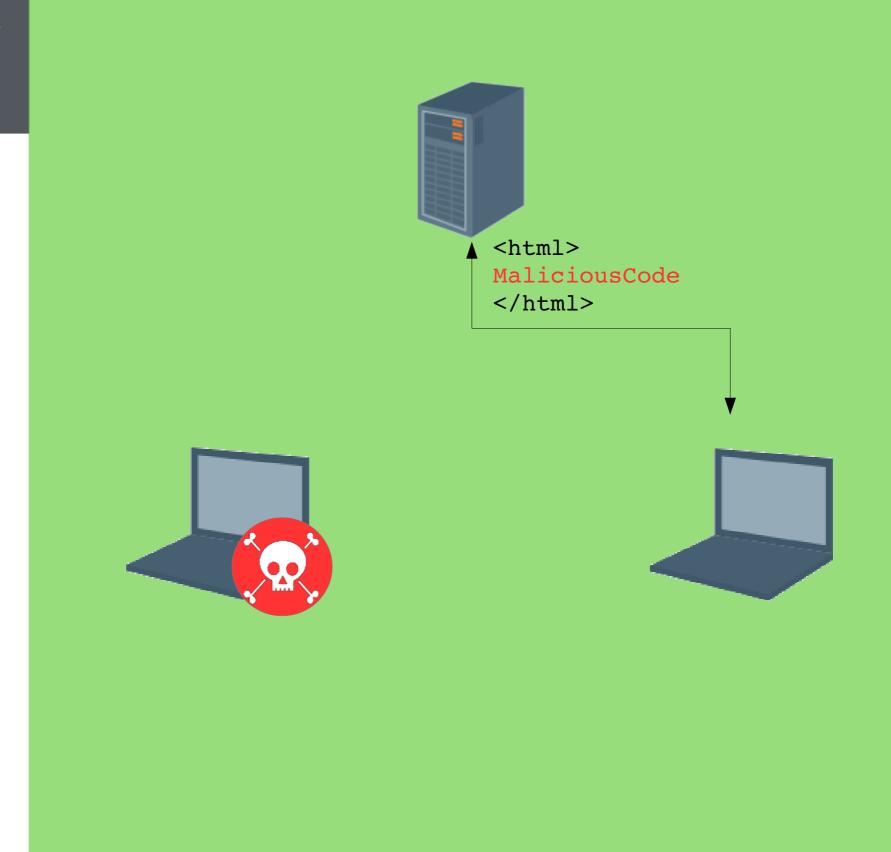




Check out the website at: site.com/search?query=<maliciouscode>

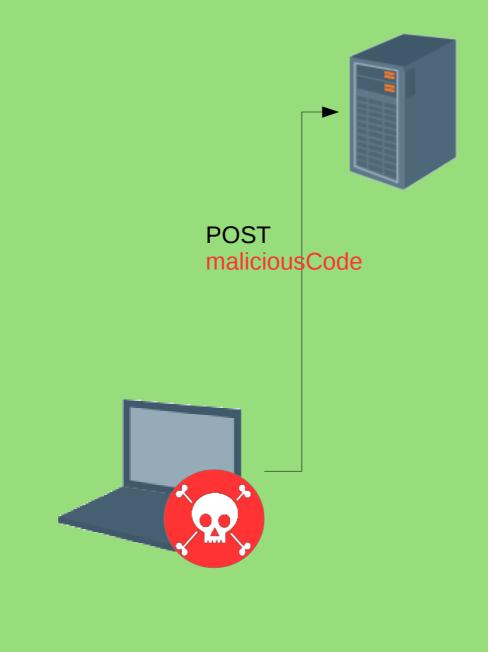


Reflected XSS



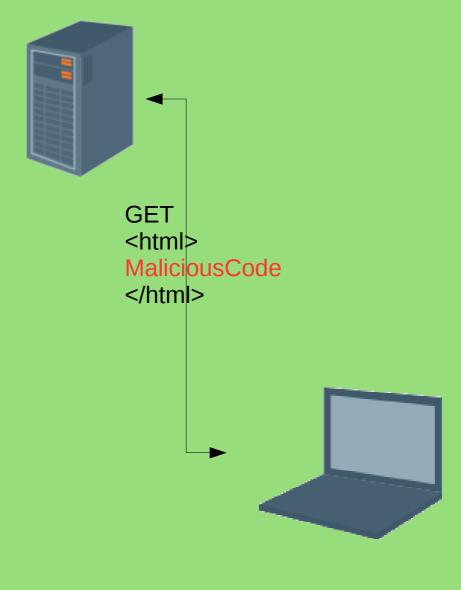


Stored XSS





Stored XSS

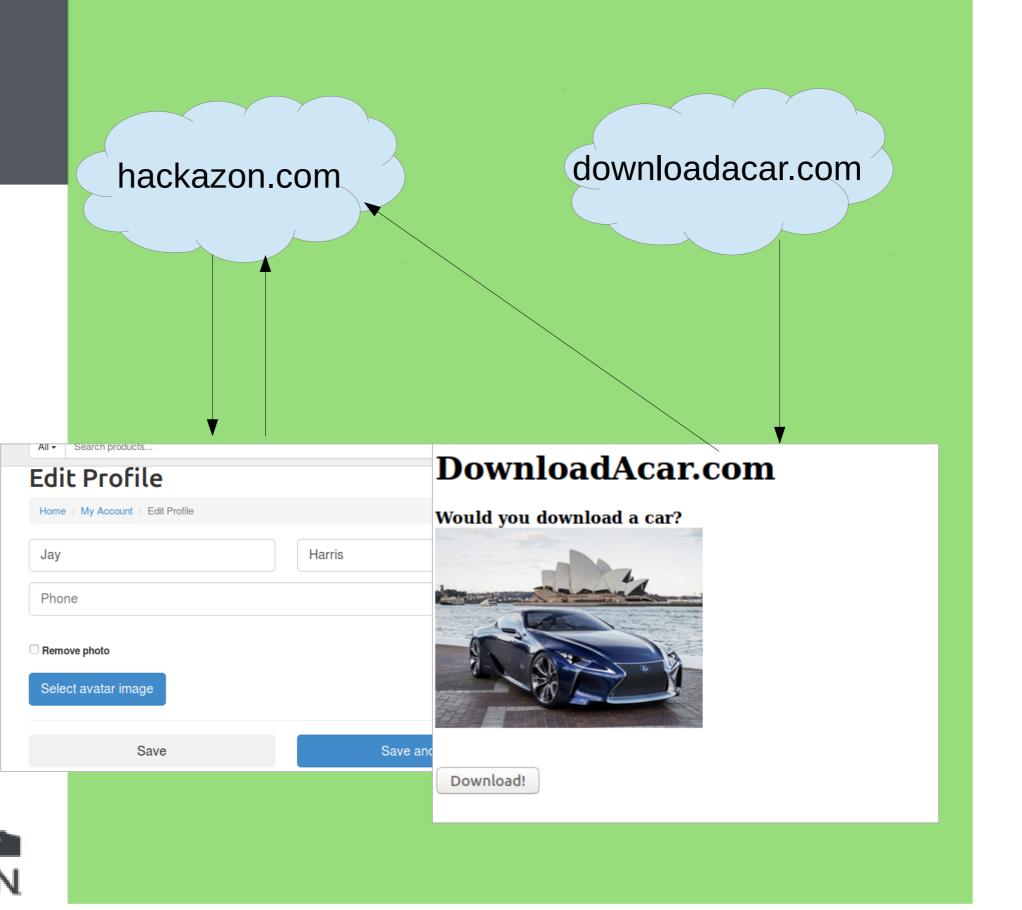




Exercise Cross Site Scripting



CSRF



Exercise Cross Site Request Forgery



```
string command = 'do something
on/with' + untrustedData;
execute(command);
```



select * from tbl_users where
username=test_user and
password=123456

ID	username	password	Login Disabled
23	test_user	123456	no



select * from tbl_users where
username='name' or 1=1 - and
password=<password>

ID)	username	password	Login Disabled
1		admin	password	no
2		jsmith	p@55word	no
3		Amy	letmein	yes
		••	**	
23	3	test_user	password	no



select * from tbl_products
where productName like %product
union select * from tbl_users%

ID	username	password	Login Disabled
1	admin	password	no
2	jsmith	p@55word	no
3	Amy	letmein	yes
23	test_user	password	no



Exercise SQL Injection



Protections?

Follow good coding practices

Perform regular Penetration Testing and security code reviews

Encourage a "security champion"

Train developers & testers

Adopt Secure SDLC and/or DevSecOps

Involve everyone! Security should be embedded at all levels



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Questions?

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