Website: trustforum.nccgroup.com
Twitter: @NCCTrustForum
Email: trustforum@nccgroup.com
Are We Secure yet?
About Me

- Info/IT Security for "x" years
- Security Consultant/Ethical Hacker/Penetration Tester
- Managing Consultant at NCC Group PLC
- Contributor to security.stackexchange.com and OWASP
• Info/IT Security for "x" years
• Security Consultant/Ethical Hacker/Penetration Tester
• Managing Consultant at NCC Group PLC
• Contributor to security.stackexchange.com and OWASP
The Tyranny of The Absolute

[It Depends!]
The Tyranny of The Absolute
“All transactions made through [Redacted] on our secure server are safe. A software protocol called Secure Sockets Layer Secure (SSL) is used for all pledges. It encrypts all of your personal information—including credit card number, name and address—as it travels over the internet. SSL is the industry standard and among the best software available today for secure commerce transactions. All of the credit card information is stored on a secure, dedicated database.”
How Do I Become Secure?

Will This make me Secure?

Is this secure?
It Depends!
Context is King
[ Laugh & Wow ]

Left: Image credit: [ENGLISH TRANSLATION]

Right: Image credit: [ENGLISH TRANSLATION]
Laugh & Wow
Who's Attacking me?
Image credit - https://flic.kr/p/2VJvfu
Who are my Users?
Why Does it Matter?
Where Does It Go Wrong

"Celebrity Hacking"
"Celebrity Hacking"
Where does my software come from?
Why does it matter?
Where does it go wrong?

```bash
env x='() { }; echo vulnerable' bash -c "echo this is a test"
```
Here does it go wrong.

```bash
env x='()' { ;; }  # Bash shell execution
bash -c "echo vulnerable"  # Print vulnerable
```

This demonstrates how environment variables can be exploited in Bash scripts.
Some Upcoming Risks
Know your Context!

Who are my users?

Who’s Attacking me?

Where does my software come from?
Who are my users?

Who's Attacking me?

Where does my software come from?
Questions?

Website: trustforum.nccgroup.com
Twitter: @NCCTrustForum
Email: trustforum@nccgroup.com