

## Content

### Learning Videos

- ▶ Blockchain in Cybersecurity
- ▶ Career and Industry Landscape
- ▶ Governance and Risk
- ▶ Introduction to Cryptography
- ▶ Secure System Design
- ▶ Threats and Vulnerabilities
- ▶ What Is Cybersecurity

### Quiz



## What Is Cybersecurity

# The key concept of Cyber Security?

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The Cyber Security on a whole is a very broad term but is based on three fundamental concepts known as “The CIA Triad”.



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▶ What Is Cybersecurity



### Quiz



## Threats and Vulnerabilities

# Password Security



### Securing Password Technique: -

- Hashing
- Salting

### Password based Attack: -

- Offline dictionary attack
- Online dictionary attack

### Additional Password Securing Technique: -

- Filtering
- Honeypots
- One Time Password
- Image authentication

# Threats and Vulnerabilities

localhost/DVWA-master/vulnerabilities/sql/?id=1%27+or+%271%27%3D%271&Submit=Submit#

**DVWA**

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Home

Instructions

Setup / Reset DB

Brute Force

Command Injection

CSRF

File Inclusion

File Upload

Insecure CAPTCHA

**SQL Injection**

SQL Injection (Blind)

Weak Session IDs

XSS (DOM)

XSS (Reflected)

XSS (Stored)

CSP Bypass

JavaScript

DVWA Security

PHP Info

About

Logout

## Vulnerability: SQL Injection

User ID:

ID: 1' or '1'=1  
First name: admin  
Surname: admin  
  
ID: 1' or '1'=1  
First name: Gordon  
Surname: Brown  
  
ID: 1' or '1'=1  
First name: Rack  
Surname: Me  
  
ID: 1' or '1'=1  
First name: Pablo  
Surname: Picasso  
  
ID: 1' or '1'=1  
First name: Bob  
Surname: Smith

### More Information

- <http://www.securiteam.com/securityreviews/SDP0N1P76E.html>
- [https://en.wikipedia.org/wiki/SQL\\_injection](https://en.wikipedia.org/wiki/SQL_injection)
- <http://feruh.mavituna.com/sql-injection-cheatsheet-oku/>
- <http://pentestmonkey.net/cheat-sheet/sql-injection/mysql-sql-injection-cheat-sheet>
- [https://www.cwss.org/index.php/SQL\\_injection](https://www.cwss.org/index.php/SQL_injection)
- <http://bobby-tables.com/>

View Source

View Help

Username: admin  
Security Level: low  
PHPIDS: disabled