# Основы информационной безопасности. Индивидуальный проект

Этап №3. Использование Hydra

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Информация

## Докладчик

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# Вводная часть

Цели и задачи

Целью данной работы является использование Hydra для подбора пароля

## Задачи:

· Подобрать пароль с помощью Hydra Инструмент: DVWA, Hydra

Выполнение лабораторной работы

## Настройка DVWA



Home

Instructions

Setup / Reset DB

**Brute Force** 

Command Injection

CSRF File Inclusion

File Upload

Insecure CAPTCHA

SOL Injection

SQL Injection (Blind)
Weak Session IDs

XSS (DOM)

XSS (Reflected)

XSS (Stored)

**CSP Bypass** 

JavaScript

Authorisation Bypass

Open HTTP Redirect

DVWA Security
PHP Info

About

DVWA Security 🌬

#### Security Level

Security level is currently: impossible.

You can set the security level to low, medium, high or impossible. The security level changes the vulnerability level of DVWA:

- Low This security level is completely vulnerable and has no security measures at all. It's use is to be
  as an example of how web application vulnerabilities manifest through bad coding practices and to serve
  as a platform to teach or learn basic exploitation techniques.
- Medium This setting is mainly to give an example to the user of bad security practices, where the
  developer has tried but failed to secure an application. It also acts as a challenge to users to refine their
  exploitation techniques.
- High This option is an extension to the medium difficulty, with a mixture of harder or alternative bad practices to attempt to secure the code. The vulnerability may not allow the same extent of the exploitation, similar in various Capture The Flags (CTFs) competitions.
- Impossible This level should be secure against all vulnerabilities. It is used to compare the vulnerable source code to the secure source code.
   Prior to DVWA V.1.9, this level was known as 'high'.

Low	~	Submit	
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Setup / Reset DB	
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Brute Force	Pas
Command Injection	••
CSRF	Lo
File Inclusion	
File Upload	Use
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SQL Injection (Blind)	
Weak Session IDs	Mor
XSS (DOM)	
XSS (Reflected)	
XSS (Reflected) XSS (Stored)	:
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XSS (Stored)	:
XSS (Stored) CSP Bypass	:
XSS (Stored) CSP Bypass JavaScript	
XSS (Stored) CSP Bypass JavaScript Authorisation Bypass	
XSS (Stored) CSP Bypass JavaScript Authorisation Bypass	
XSS (Stored) CSP Bypass JavaScript Authorisation Bypass Open HTTP Redirect	

Logout

## **Vulnerability: Brute Force**

Login			
Username:			
admin			
Password:			
•••••			
Login			
Username and/or password incorrect.			
Alternative, the account has been locked because of too many failed logins. If this is the case, <b>please try again in 15 minutes</b> .			

#### e Information

- https://owasp.org/www-community/attacks/Brute\_force\_attack
- https://www.symantec.com/connect/articles/password-crackers-ensuring-security-your-password https://www.golinuxcloud.com/brute-force-attack-web-forms

```
[dknzita⊕dknzita]-[/usr/share/wordlists]
 -$ cd /usr/share/wordlists
 --(dknzita@dknzita)-[/usr/share/wordlists]
          dnsmap.txt
                         john.lst
                                     nmap.lst
dirbuster fern-wifi
 --(dknzita@dknzita)-[/usr/share/wordlists]
sudo gzip -d roskvou.txt.gz
[sudo] password for dknzita:
gzip: roskyou.txt.gz: No such file or directory
 --(dknzita@dknzita)-[/usr/share/wordlists]
sudo gzip -d rockvou.txt.gz
---(dknzita@dknzita)-[/usr/share/wordlists]
                                     rockyou.txt
dirbuster fern-wifi
                                     salmap.txt
  -(dknzita@dknzita)-[/usr/share/wordlists]
```

```
-(dknzita@dknzita)-[/usr/share/wordlists]
└$ head -12 rockyou.txt
123456
12345
123456789
password
iloveyou
princess
1234567
rockyou
12345678
abc123
nicole
daniel
 --(dknzita@dknzita)-[/usr/share/wordlists]
<u>_$</u>
```

Рис. 4: Файл rockyou.txt с наиболее популярными паролями

## Просмотр DVWA

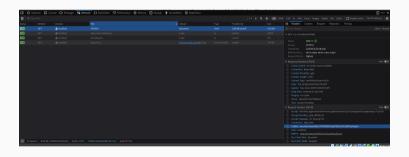


Рис. 5: Данные о запросе на вход

## Brute force атака

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```

**Рис. 6:** Запрос к Hydra

Logout



#### **Vulnerability: Brute Force** Home Instructions Login Setup / Reset DB Username: Password: Command Injection CSRE Login File Inclusion Welcome to the password protected area admin File Upload Insecure CAPTCHA SQL Injection SQL Injection (Blind) Weak Session IDs **More Information** XSS (DOM) • https://owasp.org/www-community/attacks/Brute\_force\_attack XSS (Reflected) https://www.symantec.com/connect/articles/password-crackers-ensuring-security-your-password https://www.golinuxcloud.com/brute-force-attack-web-forms XSS (Stored) CSP Bypass JavaScript **Authorisation Bypass** Open HTTP Redirect **DVWA Security** PHP Info About

Заключение



В результате выпольнения работы была исполтзована Hydra для атаки типа brute force.

## Список литературы

- 1. DVWA [Электронный ресурс]. GitHub, Inc, 2024. URL: https://github.com/digininja/DVWA.
- 2. Подробное руководство по Hydra [Электронный ресурс]. CISOCLUB, 2024. URL: https://cisoclub.ru/podrobnoe-rukovodstvo-po-hydra/.