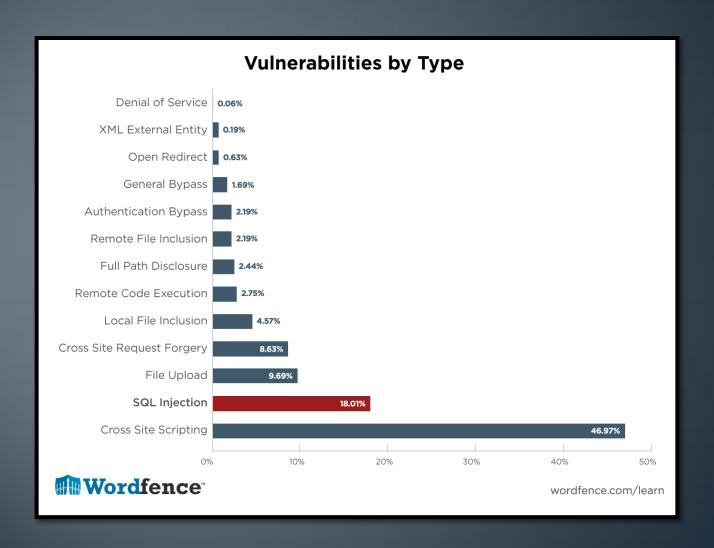


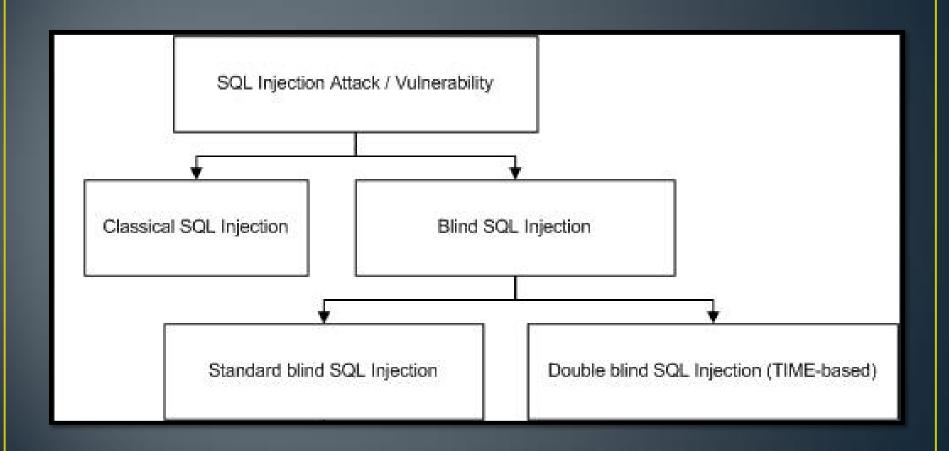
2017 Statistics



Is this real or just fantasy?



SQLi Types



Classical SQLi

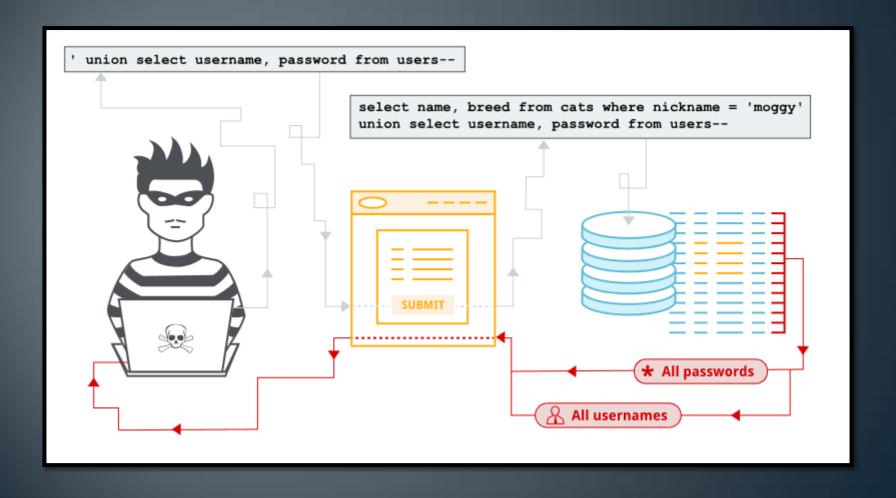
- txtUserId = getRequestString("UserId");
- txtSQL = "SELECT * FROM Users WHERE UserId = " + txtUserId;

Classical SQLi Internals | UNION

- SELECT id, name FROM table 1
 UNION

 SELECT id, name FROM table 2;
- SELECT id, name FROM table 1
 UNION ALL
 SELECT id, name FROM table 2;

Classical SQLi Internals | UNION

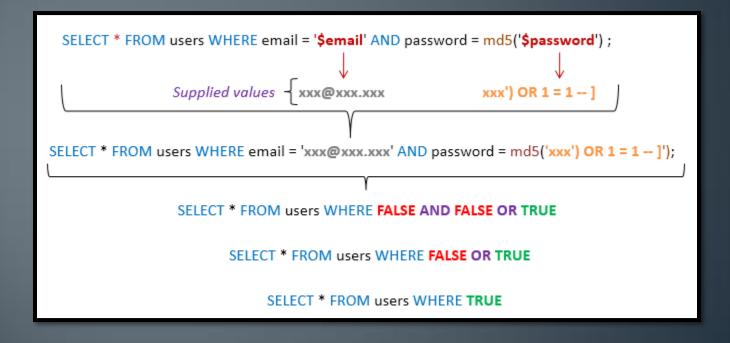


SQL Meta Characters

• SQL için özel anlamı olan karakterlere denir.

```
• 4 7
```

- ;
- -- or #



Classical SQLi Internals

- SQL Server
 SELECT TABLE_NAME FROM INFORMATION_SCHEMA.TABLES WHERE
 TABLE_TYPE = 'BASE TABLE' AND TABLE_CATALOG='dbName'
- MySQL
 SELECT TABLE_NAME FROM INFORMATION_SCHEMA.TABLES WHERE
 TABLE_TYPE = 'BASE TABLE' AND TABLE_SCHEMA='dbName'

Blind SQLi

- True -> http://www.site.com/konu.php?id=25 and 1=1
- False -> http://www.site.com/konu.php?id=25 and 1=2

Eğer ki, 1=1 eşit olduğunda sayfa sorunsuz geliyorsa ama 1=2 eşit olduğunda sayfada bazı verilerde eksilme vs varsa (veritabanından gelen verilerin gelmemesi gibi) SQLi var olduğu anlamına gelir.

Blind SQLi

- Blind Sql Injection'da ile etapta doğrudan sql sorgu çıktısı alamayız. Biz sadece doğru-yanlış gibi varsayıma göre veritabanını ve tabloları anlamlandırmaya çalışırız.
 - and substring(version(),1,1)=4/5...
 - and (select 1 from users limit 0,1)=1
 - (select substring(concat(1,column),1,1) from users limit 0,1)=1
 - waitfor delay '00:00:10'—

Try - Catch



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Welcome to Damn Vulnerable Web Application!

Damn Vulnerable Web Application (DVWA) is a PHP/MySQL web application that is damn vulnerable. Its main goal is to be an aid for security professionals to test their skills and tools in a legal environment, help web developers better understand the processes of securing web applications and to aid both students & teachers to learn about web application security in a controlled class room environment.

The aim of DVWA is to practice some of the most common web vulnerability, with various difficultly levels, with a simple straightforward interface.

General Instructions

It is up to the user how they approach DVWA. Either by working through every module at a fixed level, or selecting any module and working up to reach the highest level they can before moving onto the next one. There is not a fixed object to complete a module; however users should feel that they have successfully exploited the system as best as they possible could by using that particular vulnerability.

Please note, there are both documented and undocumented vulnerability with this software. This is intentional. You are encouraged to try and discover as many issues as possible.

DVWA also includes a Web Application Firewall (WAF), PHPIDS, which can be enabled at any stage to further increase the difficulty. This will demonstrate how adding another layer of security may block certain malicious actions. Note, there are also various public methods at bypassing these protections (so this can be see an as extension for more advance users)!

There is a help button at the bottom of each page, which allows you to view hints & tips for that vulnerability. There are also additional links for further background reading, which relates to that security issue.

WARNING!

Damn Vulnerable Web Application is damn vulnerable! Do not upload it to your hosting provider's public html folder or any Internet facing servers, as they will be compromised. It is recommend using a virtual machine (such as <u>VirtualBox</u> or <u>VMware</u>), which is set to NAT networking mode. Inside a guest machine, you

References

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- http://www.ismailsaygili.com.tr/2012/10/mysql-blind-injection-uygulama-giris.html
- https://github.com/qazbnm456/awesome-web-security
- https://www.acunetix.com/websitesecurity/sql-injection2/
- http://www.dvwa.co.uk/
- https://www.youtube.com/watch?v=5BG6iq AUvM
- https://www.youtube.com/watch?v=Zkb1fZjNRLc&list=PLga6uz cZiv0VibiLSutva451K hlP8-Ki