Security Testing Course

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OWASP
Open Web Application
Security Project

Agenda

- Introducing

- Security Mindset

- Intercept & Modify Request

- Hands on Labs : Bypass the client side validation

- Security Test Report

Security Mindset

Security Bug (Defect)

Security Mindset

Security Bug (Defect)

Security Mindset

Security Risks

- **Risk is the potential** of gaining or losing something of value

- Can be gained or lost when taking risk resulting from a given action or inaction

WIKIPEDIA

Security Mindset

Even it is not a bug, but it still a risk

Risk = likelihood x impact

Overall Risk Severity				
Impact	HIGH	Medium	High	Critical
	MEDIUM	Low	Medium	High
	LOW	Info	Low	Medium
		LOW	MEDIUM	HIGH
		Likelihood		

Security Mindset

An application should respond with a *generic error message* regardless of whether the user ID or password was incorrect.

ERROR: The password you entered for the username **admin** is incorrect. Lost your password?

Username or Email Address

admin

Password

☐ Remember Me

Log In

Security Mindset

An application should respond with a *generic error message* regardless of whether the user ID or password was incorrect.

Invalid email or password. ⊗

Sign in to HackerOne

Email address

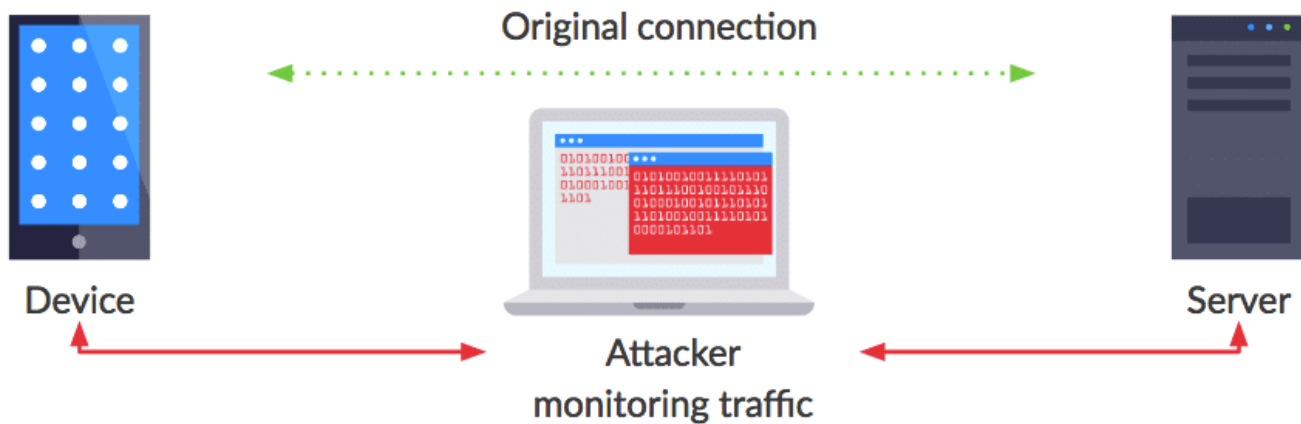Using SAML? Email address only, no password needed.

Password

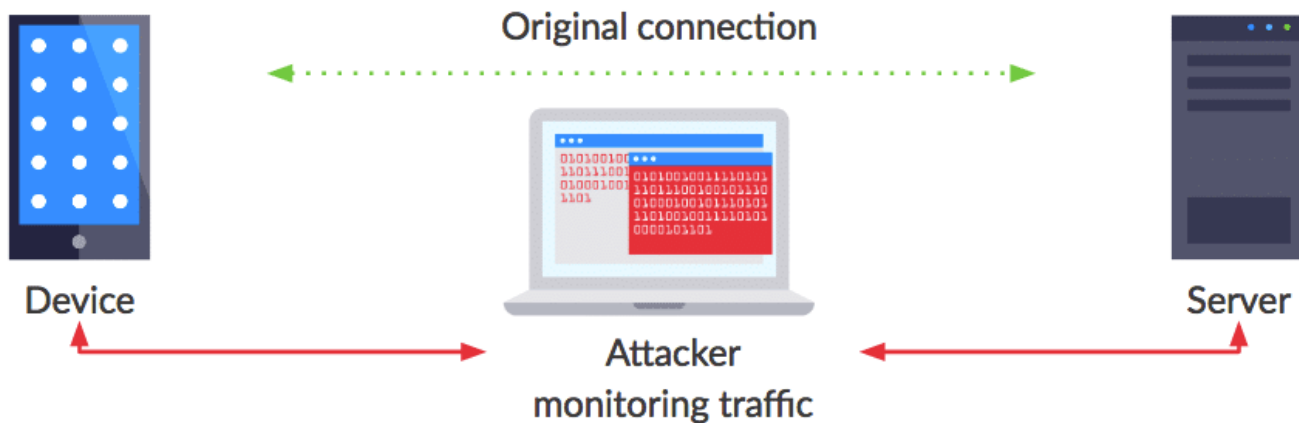☐ Remember me for two weeks   Forgot your password?

Sign in

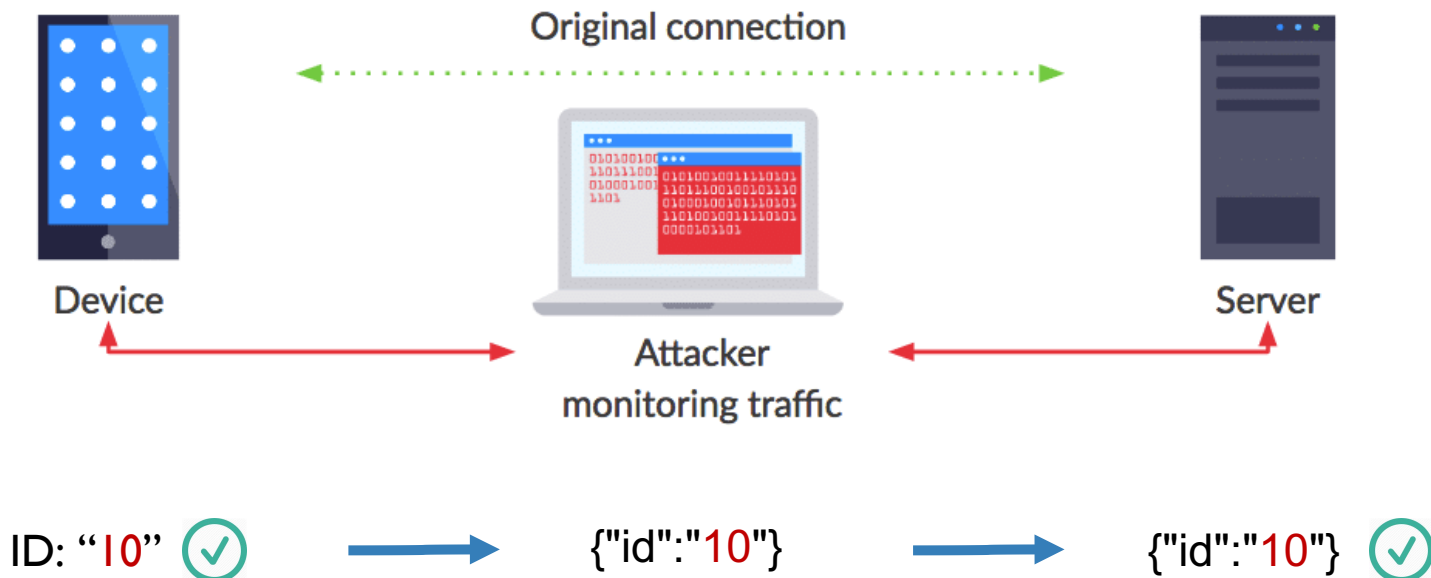# Intercept & Modify Request

Intercept & Modify Request
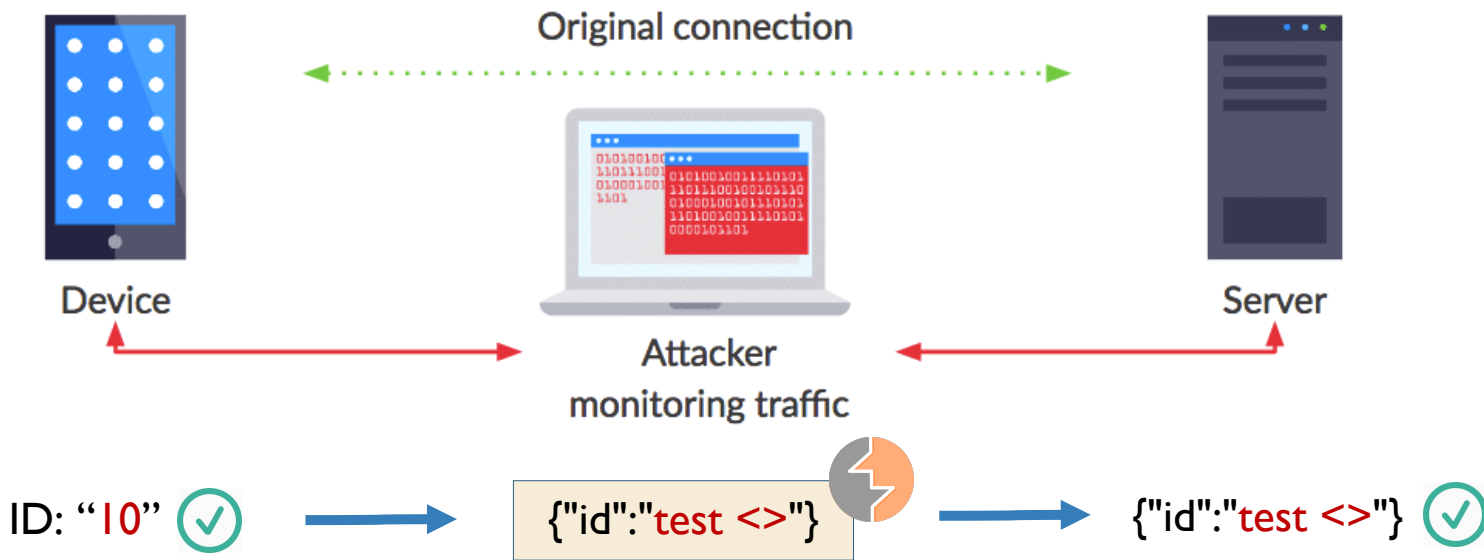

ID: "test <>" ⊘

ID: "10" ✓

"ID must be in numeric"

Intercept & Modify Request

Intercept & Modify Request

Intercept & Modify Request

Message Header

A blank line

```
POST /api/vote HTTP/1.1
Host: hackyourselffirst.troyhunt.com
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.13; rv:58.0) Gecko/20100101
Firefox/58.0
Accept: */*
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Referer: http://hackyourselffirst.troyhunt.com/Supercar/1
Content-Type: application/x-www-form-urlencoded; charset=UTF-8
X-Requested-With: XMLHttpRequest
Content-Length: 34
Cookie: _ga=GA1.2.142313643.1527228892; ASP.NET_SessionId=1dxyepbdc1jhgze45k1volnv;
VisitStart=6/3/2018 2:02:25 PM;
ARRAffinity=7dc50bf6149e01f9c7b990a468d5e06ac4e4699c1777460d3f2787ac530c2dd6;
_gid=GA1.2.1135597164.1528034547;
AuthCookie=B01664A991CA8121A961824687B3540E5BBC61514B6D0170CE1F590C8D788A59A00DCA00E
87B89376E06E9F0C67AEFE67EF64AA3DAB898383080BFAD9445440ED3445CCAF7B73048833648373785D
26EFC6C1B90949A2446535D8DF99E99DDB4221D4CA5ACC6C8667CC4A5A1E33BE31590AB362E82BA6A72E
4D6708CB09A347C; _gat=1
Connection: close

userId=68&supercarId=1&comments=sa
```

Request Body

Intercept & Modify Request

Response Header

Security Test Report

- Title:
- Details:
- Severity:
- Steps:
- Request:
- Response:
- Recommended:
- Screenshot:

Q/A!

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