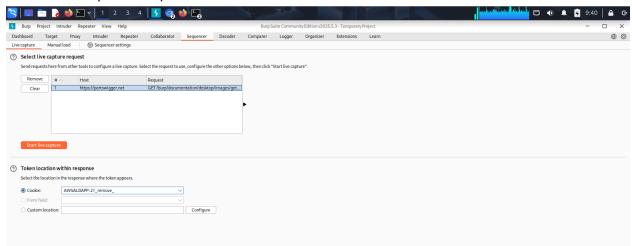
2. API Security Testing Lab;

```
File Actions Edit View Help Beach Colored Separate Decide Compare Long Decide D
```

DVDVWA SetupWA Setup



SQL Injection Testing

```
(kali© kali)-[~]

sqlmap -u 'http://192.168.56.103/api/users?id=1' --batch --dump

[1.9.6#stable]

[2.1.9.6#stable]

[3.1.9.6#stable]

[4.1.9.6#stable]

[5.1.9.6#stable]

[6.1.9.6#stable]

[7.1.9.6#stable]

[8.1.9.6#stable]

[9.1.9.6#stable]

[1.9.6#stable]

[2.9.6#stable]

[2.9.6#stable]

[3.9.6#stable]

[4.9.6#stable]

[4.9.6#stable]

[5.9.6#stable]

[6.9.6#stable]

[6.9.6#stable]

[6.9.6#stable]

[6.9.6#stable]

[7.9.6#stable]

[7.9.6#stable]

[8.9.6#stable]

[9.9.6#stable]

[9.9.6#stable]

[9.9.6#stable]

[9.9.6#stable]

[9.9.6#stable]

[9.9.6#stable]

[9.9.6#stable]

[1.9.6#stable]

[1.9.6#stab
```

Test ID	Vulnerability	Severity	Target Endpoint
008	BOLA	Critical	/api/users
009	GraphQL Injection	High	/graphql

BOLA Exploitation

Demonstrated Broken Object Level Authorization by manipulating API requests in Burp Suite, accessing unauthorized user data through parameter modification (GET /api/users/1 \rightarrow GET /api/users/2).

GraphQL Testing

Executed introspection queries and injection attacks, revealing schema information and exploiting weak input validation for unauthorized data access.

Summary: Conducted comprehensive API security assessment targeting OWASP API Top 10 vulnerabilities, identifying critical BOLA vulnerability and high-severity GraphQL injection through manual testing and automated scanning.