

# EXECUTIVE SUMMARY

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Target: <http://testasp.vulnweb.com>

Scan ID: AG-756F93A0

Scan Date: 2026-01-31 01:22:10

Findings: 1 vulnerabilities detected

## Overall Status

### VULNERABLE

1 Detected security issue(s) requiring attention.

- Immediate remediation recommended for critical findings.
- Review each finding below for detailed impact analysis.
- Prioritize fixes based on severity and exploitability.

## DETAILED FINDINGS

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### Finding #1: Insecure Direct Object Reference (IDOR)

HIGH

CWE: CWE-639

CVSS Score: 8.6 (High)

#### Description:

- Application exposes internal object references without authorization checks.
- Attackers can access resources belonging to other users.
- Object IDs are predictable and not properly validated.

#### Impact:

- Unauthorized access to other users' data.
- Privacy breach affecting multiple users.
- Potential for mass data harvesting.
- Regulatory compliance violations (GDPR, etc.).

### Forensic Analysis

Method: GET | Param: user\_id

URL: /api/v1/user/1005

Analysis: The 'user\_id' parameter is sequential and lacks authorization checks.

**Table 1: Payload Details (Insecure Direct Object Reference)**

RAW: 1005

ENC: 1005

#### Reproduction Command:

```
curl -X GET 'http://target/api/v1/user/1005' -H 'Authorization: Bearer <attacker
```

#### HTTP Traffic Snapshot:

##### Request:

```
GET /api/v1/user/1005 HTTP/1.1
Host: target
Authorization: Bearer <attacker_token>
```

##### Response:

```
HTTP/1.1 200 OK
Content-Type: application/json

{"id": 1005, "username": "victim_user", "email": "victim@corp.com", "role": "admin"}
```

#### Remediation:

- Implement proper authorization checks on all resource access.
- Use indirect references or UUIDs instead of sequential IDs.
- Validate user permissions before returning data.
- Log and monitor access patterns for anomalies.

## Recommended Code Fix:

```
# VULNERABLE CODE:  
@app.get("/user/{user_id}")  
def get_user(user_id: int):  
    return db.get_user(user_id)  
  
# SECURE CODE:  
@app.get("/user/{user_id}")  
def get_user(user_id: int, current_user: User):  
    if user_id != current_user.id and not current_user.is_admin:  
        raise HTTPException(403, "Access denied")  
    return db.get_user(user_id)
```

## RECOMMENDATIONS

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### Remediation Strategy

- Remediation steps are provided within each specific finding above.
- Prioritize Critical and High severity issues.
- Re-scan after applying patches to verify fixes.

## SCAN TIMELINE

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- [Orchestrator] TARGET\_ACQUIRED - 2026-01-31 01:18:51
- [Sigma] JOB\_ASSIGNED - 2026-01-31 01:18:51
- [Beta] LOG - 2026-01-31 01:18:51
- [Gamma] VULN\_CONFIRMED - 2026-01-31 01:18:51
- [Kappa] GI5\_LOG - 2026-01-31 01:18:51