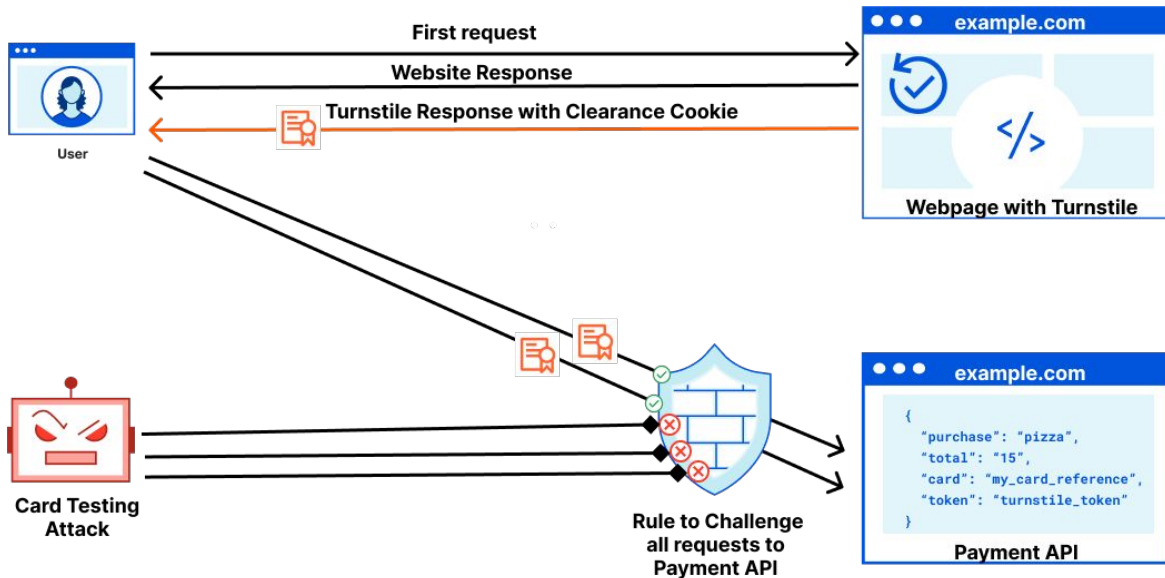


# 1 - Turnstile now issues clearance cookies



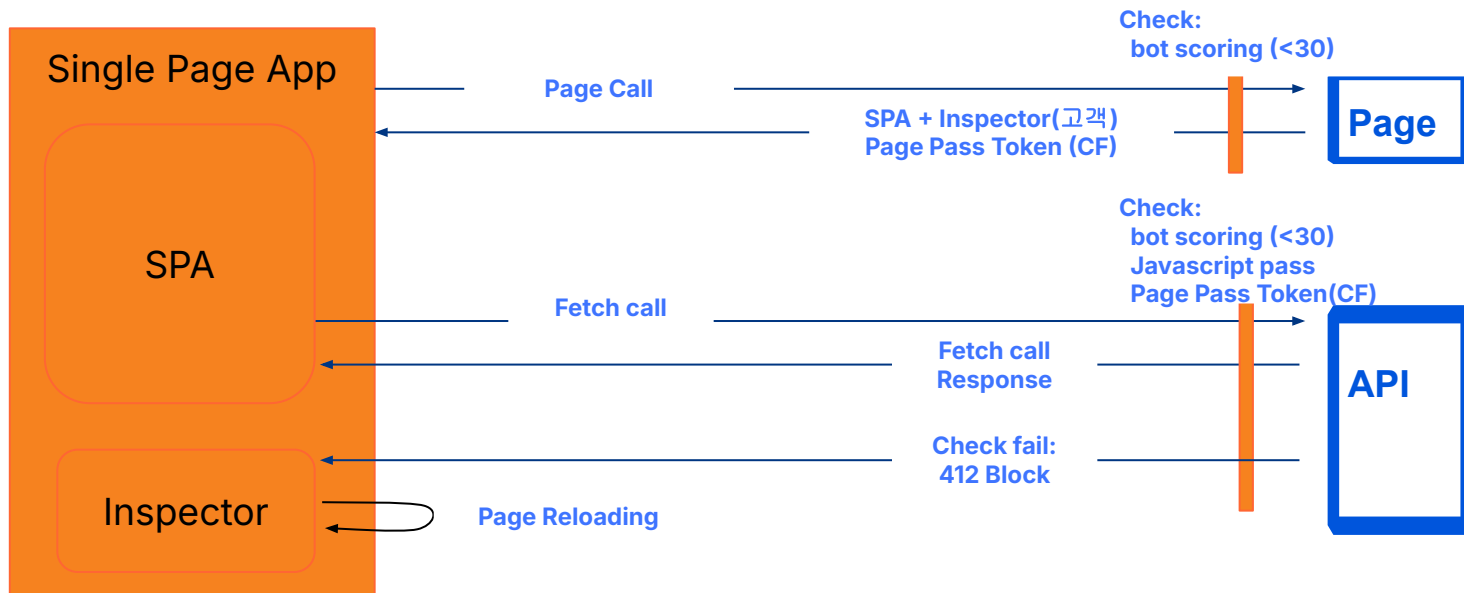
## Turnstile required:

- AJAX requests
- XML HTTP requests
- Fetch requests
- Single Page Applications
- Embedded iFrames

<https://gcp.stephenkim.site/demo.html>

## 2- API에 대한 Challenge Case

SPA 페이지 호출 시 봇체크와 패스 후 Pass Token발행, API호출 시 Pass Token유효성과 봇체크 후 정상 요청에 대해서만 응답 처리하고, 패스 실패 시 412 응답, SPA 와 함께 로드된 Inspector 에서 412 응답 시 SPA 리로드 처리



Demo URL: <https://gcp.stephenkim.site/demo.html> (Id/Pass: admin/admin), 챌린지 시(412 응답코드) Inspector Page Reload

# WAF Custom Rules

SPA 페이지 호출 시 봇체크와 패스 후 Pass Token발행, API호출 시 Pass Token유효성과 봇체크 후 정상 요청에 대해서만 응답 처리하고, 패스 실패 시 412 응답, SPA 와 함께 로드된 Inspector 에서 412 응답 시 SPA 리로드 처리

Rule name (required)

protect login page

Give your rule a descriptive name.

[Use expression builder](#)

```
{
  (http.host eq "node.abcapp24.club" and http.request.uri.path contains "/login" ) and
  (cf.bot_management.score <= 99 )
}
```

Then take action...

Choose action

Interactive Challenge

Rule name (required)

verify bot score

Give your rule a descriptive name.

[Use expression builder](#)

```
{
  (http.host eq "node.abcapp24.club" and http.request.uri.path contains "/api/")
  and (
    cf.bot_management.score < 30
  )
}
```

Then take action...

Choose action

Block

With response type

Custom Text

With response code

413

Blocks matching requests and stops evaluating other rules

Rule name (required)

verify token

Give your rule a descriptive name.

[Use expression builder](#)

```
{
  (http.host eq "node.abcapp24.club" and http.request.uri.path contains "/api/")
  and (
    not is_timed_hmac_valid_v0(
      "testkeysampl",
      concat(http.request.cookies["__cf_bm"],http.request.cookies["__CF_TOKEN__"][0]),
      86400, http.request.timestamp.sec,0)
  )
}
```

Then take action...

Choose action

Block

With response type

Custom Text

With response code

412

Rule name (required)

Duplicate of verify js passed

Give your rule a descriptive name.

[Use expression builder](#)

```
{
  (http.host eq "node.abcapp24.club" and http.request.uri.path contains "/api/")
  and (
    not cf.bot_management.js_detection.passed
  )
}
```

Warning: Please ensure your rule expression only captures traffic from devices that have already submitted a JavaScript Detection response. [Learn more](#)

Then take action...

Choose action

Block

With response type

Custom Text

With response code

414

## 모듈 별 구현 기능

