

Client

①

Attacker sends a GET request header larger than 8KB but smaller than 20KB

```
GET /index.html HTTP/1.1
Host: webapp-using-amazon-cdn.org
Accept: */*
X-Malicious-Header-1: Some value...
X-Malicious-Header-2: Some value...
X-Malicious-Header-3: Some value...
...
```



Benign client sends a request for receiving the start page

⑤

```
GET /index.html HTTP/1.1
Host: webapp-using-amazon-cdn.org
Accept: */*
```



CDN returns the error page instead of the start page

```
HTTP/1.1 400 Bad Request
Content-Type: text/plain
Content-Length: 29
```

Request exceeds the header size limit

CDN

②

④

CDN stores the response under the cache key
[GET https://webapp-using-amazon-cdn.org/index.html](https://webapp-using-amazon-cdn.org/index.html)
HTTP/1.1 400 Bad Request
Content-Type: text/plain
Content-Length: 29

Request exceeds the header size limit

⑥

 CDN registers a Cache Hit for
[GET https://webapp-using-amazon-cdn.org/index.html](https://webapp-using-amazon-cdn.org/index.html)

⑦

Web Server

CDN forwards the request to the Web Server, since the request header does not exceed 20KB

```
GET /index.html HTTP/1.1
Host: webapp-using-amazon-cdn.org
Accept: */*
X-Malicious-Header-1: Some value...
X-Malicious-Header-2: Some value...
X-Malicious-Header-3: Some value...
...
```

Web Server returns a error page, since the request header exceeds the header size limit

```
HTTP/1.1 400 Bad Request
Content-Type: text/plain
Content-Length: 29
```

Request exceeds the header size limit

③