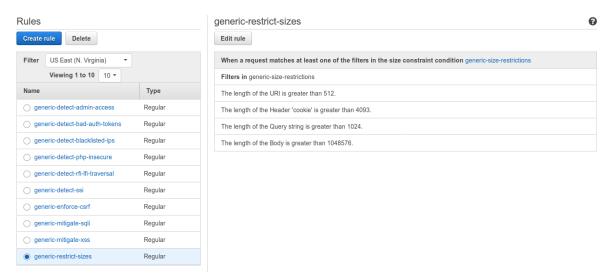
Penetration Testing Report

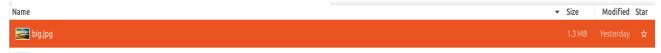
Attack Vector: Body Size Constraint

A limit needs to be placed on the size of the body of the incoming requests. Larger requests take longer to process. Without any restriction on the size of attachments a user can upload, the application will be vulnerable to uploads of very large size attachments. Large attachments would cause a wastage of storage and network resources.

TEST: Upload an image for a book greater than 1MB. The WAF must prevent this request from reaching the application servers.



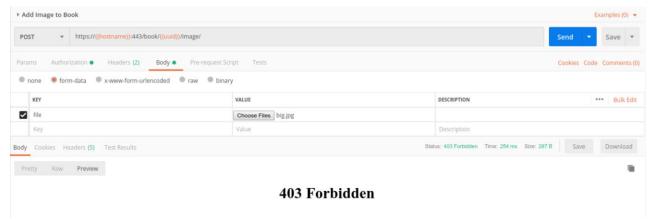
Screenshot 1: Rule to restrict request body size to 1 MB.



Screenshot 2: Uploading file bigger than 1 MB.

RESULT:

With the WAF, the request gets blocked and response code 403 is returned.

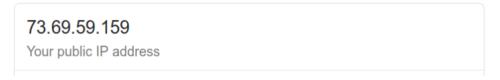


Screenshot 3: Request with large attachment getting blocked by WAF.

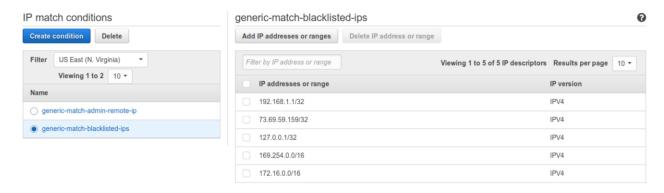
Attack Vector: Known Attacker Origin Mitigation

Several organizations maintain reputation lists of IP addresses that are operated by known attackers, such as spammers, malware distributors, and botnets. This solution leverages the information in these reputation lists to help block requests from malicious IP addresses.

TEST: Configure the IP address of a system as a malicious IP and check if the requests get blocked.



Screenshot 4: My public IP address



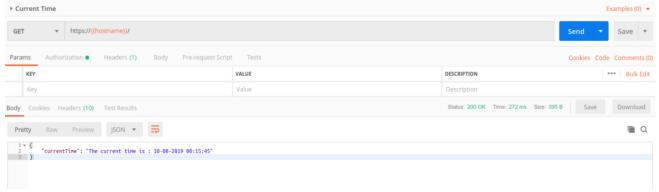
Screenshot 5: The Public IP address added to the list of blocked IP addresses.

RESULT:

All requests from my system get blocked by the WAF. This demonstrates the ability of the WAF to block requests from known attackers.



Screenshot 6: The request is blocked due to IP address being present in the list of blacklisted IPs.



Screenshot 7: The requests from the attackers IP are not blocked without a WAF.