


```

3: # redirect to https
<!--CBSP-->
4: HTTP::redirect "https://[getfield [HTTP:host] "*" 1][HTTP:uri]"
<!--CBSP-->
5:
<!--CBSP-->
6:
<!--CBSP-->
7: when HTTP_REQUEST {
<!--CBSP-->
8:
<!--CBSP-->
9: set rewrite 0
<!--CBSP-->
10: set canonical [getfield [HTTP:host] "." 1]
<!--CBSP-->
11: set host1 [HTTP:host]
<!--CBSP-->
12: set host2 [getfield [HTTP:host] "canonical" 1]
<!--CBSP-->
13: set uri1 "[HTTP:uri]"
<!--CBSP-->
14: set uri2 ""/[canonical][HTTP:uri]"
<!--CBSP-->
15:
<!--CBSP-->
16: if ([IP::addr {IP::client_addr} equals 10.1.0.0/16] and [HTTP:cookie exists "X-Int-Auth"])
<!--CBSP-->
17: {
<!--CBSP-->
18: pool http_pool
<!--CBSP-->
19:
<!--CBSP-->
20:
<!--CBSP-->
21: else {
<!--CBSP-->
22:
<!--CBSP-->
23: log local0. "Received request from [IP::client_addr] => [HTTP:host][HTTP:uri]"
<!--CBSP-->
24:
<!--CBSP-->
25: # Rewrite the Host header
<!--CBSP-->
26: HTTP::header replace "Host" $:host2
<!--CBSP-->
27: # Make uri path start with /canonical if it doesn't already
<!--CBSP-->
28: if [not ([HTTP:uri] starts_with "/"canonical)] {
<!--CBSP-->
29: HTTP::uri [string map -nocase {url1 url2} [HTTP:uri]]
<!--CBSP-->
30: set uriRewrite 1
<!--CBSP-->
31:
<!--CBSP-->
32: }
<!--CBSP-->
33:
<!--CBSP-->
34: when HTTP_RESPONSE {
<!--CBSP-->
35:
<!--CBSP-->
36: if [!rewrite]{
<!--CBSP-->
37:
<!--CBSP-->
38: # Check if response is a redirect
<!--CBSP-->
39: if ([HTTP::is_redirect] and [HTTP:header Location] contains $find){
<!--CBSP-->
40: # Rewrite the redirect Location header value
<!--CBSP-->
41: HTTP::header replace "Host" $:host1
<!--CBSP-->
42: HTTP::header replace Location [string map -nocase "$url1 $url2" [HTTP:header Location]]
<!--CBSP-->
43: }
<!--CBSP-->
44:
<!--CBSP-->
45: # Check if response payload type is text
<!--CBSP-->
46: if ([HTTP:header value Content-Type] contains "text"){
<!--CBSP-->
47:
<!--CBSP-->
48: # Set the replacement strings
<!--CBSP-->
49: STREAM::expression "$url1@$url2"
<!--CBSP-->
50:
<!--CBSP-->
51: # Enable the stream filter for this response only
<!--CBSP-->
52: STREAM::enable
<!--CBSP-->
53: }
<!--CBSP-->
54: }
<!--CBSP-->
55: }
<!--CBSP-->

```

Winner – Joe Martin

Last but not the exact inverse of least, our winner in fact, was Joe Martin. Joe seemed like a normal, average, every day FSE challenge entrant upon first blush. He didn't even bother to out himself at the onset as having written iRules before when I asked for experience levels. Clever play, Joe, very clever. As I was later to find out Joe seemed to in fact be a cyborg-robot-iRules-ninja-hacker-dinosaur sent back from the future to bust the curve for all FSE iRules Challenges everywhere. Seriously, this guy knew what he was doing. This iRule is pretty darn close to the code I would churn out to solve this particular problem and, not to self aggrandize, but that's not such a bad thing coming from the guy judging the challenge, amirite? Upon presenting the results and having shaken the hand of the Cylon (No windows, you may not autocorrect Cylon to colon. Go away, I'm making jokes here.) in charge of iRules affairs himself, I asked Joe how many iRules he'd written before, because it was obvious that he had done so. Much to his credit he admitted to having written hundreds, which makes a whole heck of a lot of sense, and makes me able to sleep just a bit better at night without keeping a light on to watch out for those cyber iRules ninja invaders. Big congrats to Joe for a darn fine hunk of codey bits.

```

1: when HTTP_REQUEST {
<!--CBSP-->
2: set request_rewrite 0
<!--CBSP-->
3:
<!--CBSP-->
4: #Check to see if this is an internal developer request (internal IP and X-Auth header)
<!--CBSP-->
5:
<!--CBSP-->
6: if ([HTTP:header X-Int-Auth} equals "true"} && ([IP::client_addr} equals "10.1.0.0/16") ) {
<!--CBSP-->
7: pool http_pool
<!--CBSP-->
8:
<!--CBSP-->
9: } else {
<!--CBSP-->
10:
<!--CBSP-->
11: set orig_host [string tolower [HTTP:host]]
<!--CBSP-->
12: set $new_host $:host.$:host_domain.tld
<!--CBSP-->
13: set new_host "$domain.tld"
<!--CBSP-->
14:
<!--CBSP-->
15: #Make sure "host" portion of DNS name is not in exclusion data group "class_no-rewrite"
<!--CBSP-->
16:
<!--CBSP-->
17: if [!class match $host equals class_no-rewrite] {
<!--CBSP-->
18:
<!--CBSP-->
19: #Flag connection as "request rewritten", rewrite host header and URI, and log request info"
<!--CBSP-->
20:
<!--CBSP-->
21: set request_rewrite 1
<!--CBSP-->
22: HTTP::header replace Host $new_host
<!--CBSP-->
23: HTTP::uri "/"$host[HTTP:uri]"
<!--CBSP-->
24: log local0. "Request to $orig_host from [IP::client_addr] rewritten to [HTTP:uri]"
<!--CBSP-->
25: pool http_pool
<!--CBSP-->
26: }
<!--CBSP-->
27: }
<!--CBSP-->
28:
<!--CBSP-->
29:
<!--CBSP-->
30: when HTTP_RESPONSE {
<!--CBSP-->
31:
<!--CBSP-->
32: #If the request was rewritten we need to rewrite Location headers and embedded URLs
<!--CBSP-->
33:
<!--CBSP-->
34: if [!request_rewrite] {
<!--CBSP-->
35: if [HTTP::is_redirect] {
<!--CBSP-->
36: HTTP::header replace Location [string map -nocase "$new_host $orig_host" [HTTP:header Location]]
<!--CBSP-->
37: } else {
<!--CBSP-->
38: STREAM::expression "$/host/$:host $http://$new_host$hostpath/$:orig_host"
<!--CBSP-->
39: STREAM::enable
<!--CBSP-->
40: }
<!--CBSP-->
41: }
<!--CBSP-->
42: }
<!--CBSP-->

```

All said and done it was another fine experience hosting the F5 iRules challenge. There was code, and fun, and fun code, and coding fun, and funny code, and...well you get the idea. I'm looking forward to the next crop and seeing what they're capable of. I'll be working on my cyborg detection methodologies in the meantime. Until then, remember kids: code hard.

#Colin

#iRules #RulesChallenge #Cylons

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