How to indicate SharePoint Application servers that SSL Offload is enabled in NetScaler and end client is using HTTPS?

Use Case: How to indicate SharePoint back-end server that the end client is using HTTPS so that the server responds with redirect headers/content which has reference to HTTPS URLs instead of HTTP URLs

Problem Statement:

In SSL Offload configuration in NetScaler, the request/response from NetScaler to server is sent over HTTP and the SharePoint Server uses HTTP URL in its Redirect and HREF links. NetScaler does not convert the HTTP URL to HTTPS URL and this results in end client connecting over HTTP to the NetScaler SSL virtual server.

This issue can be resolved by indicating to the SharePoint server that the end client consuming the SharePoint application is connecting over SSL. The same can be achieved by inserting the below header from NetScaler in request going to SharePoint server.

“Front-End-Https: On”

Following are the steps to enable the Header Insertion at Content Switching (CS) level

How to configure action and policy at content switching virtual server Level:

Instructions:

1) Under Configuration tab select AppExpert > Rewrite > Actions

2) After selecting Actions > Click Add for a new action and create SharePoint-Frontend-rewrite-action like below

![Configure Rewrite Action](image-url)
3) Now under Configuration tab select AppExpert > Rewrite > Policies and create a New policy like SharePoint-Frontend-rewrite-policy and bind policy to the action SharePoint-Frontend-rewrite-action.

4) Now the above created policy needs to be bound to content switching vserver for all the incoming requests under Policies category.
CLI commands for the above setup:

add rewrite action SharePoint-Frontend-rewrite-action1
insert_http_header Front-End-Httsp "on"

add rewrite policy SharePoint-Frontend-rewrite-policy HTTP.REQ.IS_VALID SharePoint-Frontend-rewrite-action

bind cs vserver SharePoint-SSL-CSvserver -policyName SharePoint-Frontend-rewrite-policy -priority 100 -gotoPriorityExpression END -type REQUEST

5) To check number of policy hits, go to AppExpert > Rewrite > Policies and scroll towards right

By following the above instructions, SharePoint servers will know that the end client is using SSL for communication and hence SharePoint servers will respond with HTTPS URL to the client.