NetScaler Content-Switching for redirecting HTTP to HTTPS for multiple Domains

Hi together

I had the situation in a new Unified Gateway installation, that multiple hostnames had the same IP. The wizards set up a Content Switching (CS) for HTTPS automatically, which can be extend with policies and target vServer.

An automatic redirect from HTTP to HTTPS will not be configured. In the good old time while each NetScaler Gateway (NSGW) vServer has its own IP, you set up a simple Loadbalancing (LB) vServer with an Redirection URL and that’s it. But what in the case above?

Consisting after the Wizard and some extensions:
- CS vServer cs-vsrv-https.domain.pit with an IP 192.168.200.10 configured for HTTPS
- NSGW vServer nsgw-vsrv-citrix.domain.pit with an IP 0.0.0.0
- LB vServer lb-vsrv-data.domain.pit with an IP 0.0.0.0
- LB vServer lb-vsrv-mail.domain.pit with an IP 0.0.0.0
- threeDNS entries citrix.domain.pit, data.domain.pit and mail.domain.pit for a specific public IP

In our environment we solved that with an additional CS vServer based on HTTP with the associated LB vServer:

add cs vserver cs-vsrv-http.domain.pit HTTP 192.168.200.10 80
add  cs  policy  cs-pol-http-citrix  -rule "HTTP.REQ.HOSTNAME.STARTSWITH("citrix")"
add  cs  policy  cs-pol-http-data  -rule "HTTP.REQ.HOSTNAME.STARTSWITH("data")"
add  cs  policy  cs-pol-http-mail  -rule
"HTTP.REQ.HOSTNAME.STARTSWITH("mail")"
add lb vserver http_redirect-citrix.domain.pit HTTP 0.0.0.0 0 -redirectURL "https://citrix.domain.pit"
add lb vserver http_redirect-data.domain.pit HTTP 0.0.0.0 0 -redirectURL "https://data.domain.pit"
add lb vserver http_redirect-mail.domain.pit HTTP 0.0.0.0 0 -redirectURL "https://mail.domain.pit"
bind cs vserver cs-vsrv-http.domain.pit -policyName cs-pol-http-data -targetLBVserver http_redirect-data.domain.pit -priority 100
bind cs vserver cs-vsrv-http.domain.pit -policyName cs-pol-http-mail -targetLBVserver http_redirect-mail.domain.pit -priority 200
bind cs vserver cs-vsrv-http.domain.pit -policyName cs-pol-http-citrix -targetLBVserver http_redirect-citrix.domain.pit -priority 300

Now the CS policy checks the subdomain and forwards to the corresponding HTTP LB vServer. The LB vServer has configured a redirection to the correct HTTPS address.

As an aside: this is basically also the CS configuration of the Unified Gateway. This is based on HTTPS, needs an SSL certificate and the NSGW vServer has to be installed. But I renounce to this within this article ;-)

Script: **NS-HTTP2HTTPS-CS**