

Alteon and Advanced Analytics

DEMO LAB GUIDE

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GUIDE OVERVIEW

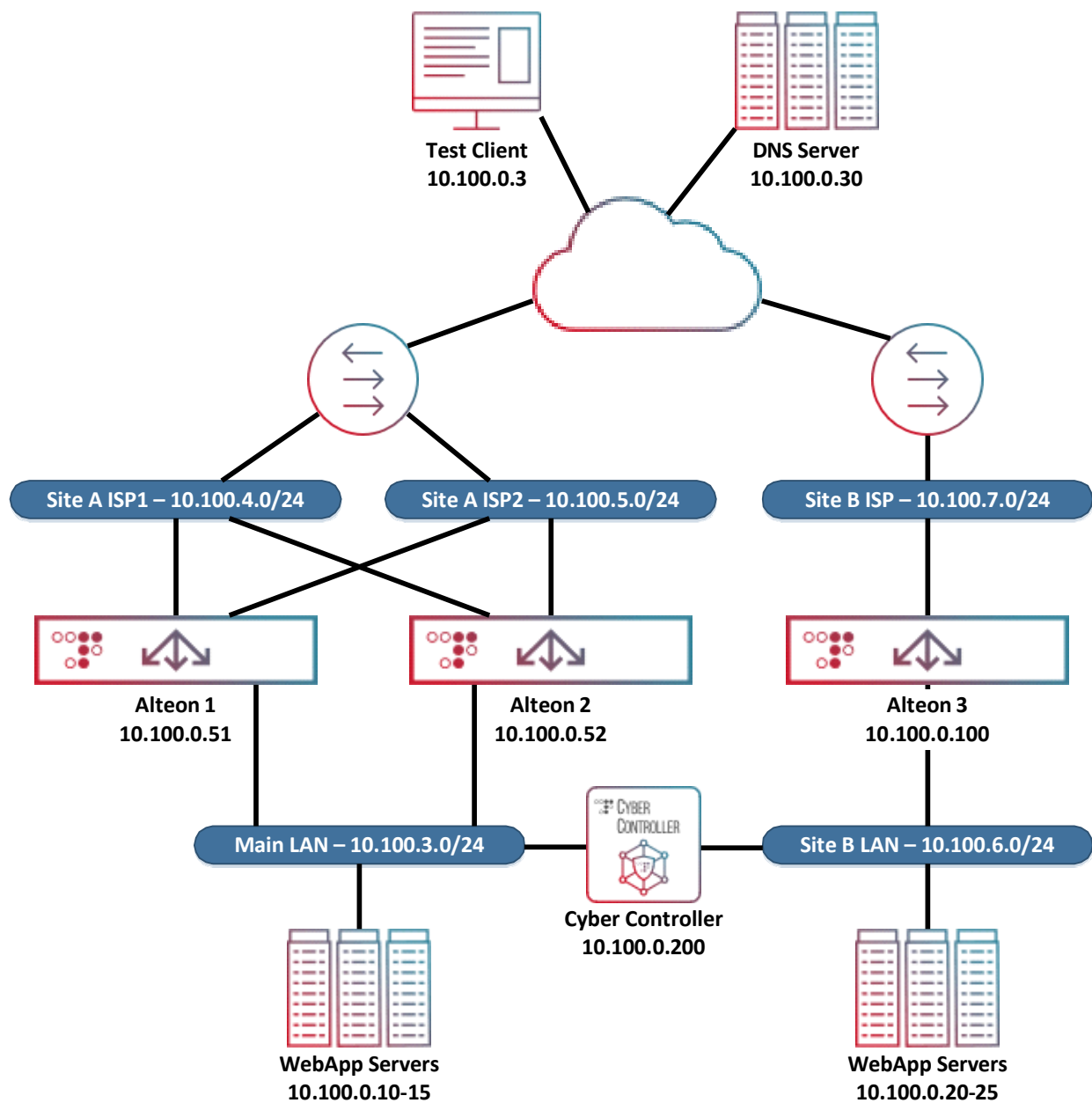
The document covers steps for demonstrating the following scenarios:

1. [GSLB](#) - global load balancing between two sites
 - **Round robin load sharing** – Both sites are active.
 - **Main\DR sites scenario** - Ability to failover to the remote site.
2. [SSL Offloading and Layer 7 modification](#)
 - Redirect HTTP to HTTPS.
 - Perform SSL\TLS by Alteon instead of the server.
 - Perform HTTP compression by Alteon and not by server.
 - HTTP header modification.
 - HTTP body modification.
3. [Content based load balancing](#)
 - HTTP access - server group selection based on the HTTP hostname.
 - HTTPS access - server group selection based on the SNI header.
4. [HTTP/2.0 GW](#) – Operating as HTTP2 gateway.
5. [Advanced Analytics](#) – Overview Logs and Statistics collected by Cyber controller Advanced Analytics engine. In order to provide data for this scenario, all the components of the environment are set to send HTTP and HTTPS requests.

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LAB TOPOLOGY



The demo lab is comprised of several components:

- Windows Client

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- DNS Server
- Two routers
- Cyber controller server
- Three Alteons for GSLB\SLB
- Two sets of web servers

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THE MANAGEMENT STATION

The windows client in the diagram is our management station, from it you run the entire demo and have access to:

- Cyber controller
- Web-App Servers
- Alteons

a.

The station is connected to three networks:

- External Network – Used for external connectivity via RDP.
- Internal Network – Used for running the demo scenarios
- Management Network – Gives us access to the management vlan.

Credentials:

- Windows Client – radware:radware
- Cyber Controller – radware:Radware1!
- Alteons – radware:Radware1!
- Web Servers – radware:radware
- DNS Server – radware:radware

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RUNNING THE DEMO

GSLB and HA Scenarios

In this section we will demonstrate global site load balancing and different HA scenarios.

Please note Main site has two links and DR site has one link:

- Site A ISP link 1 is represented by VIP 10.100.4.54
- Site A ISP link 2 is represented by VIP 10.100.5.54
- Site B ISP link is represented by VIP 10.100.7.103

Note:

For the GSLB configuration walkthrough refer to [Appendix 1 – General GSLB Configuration](#)

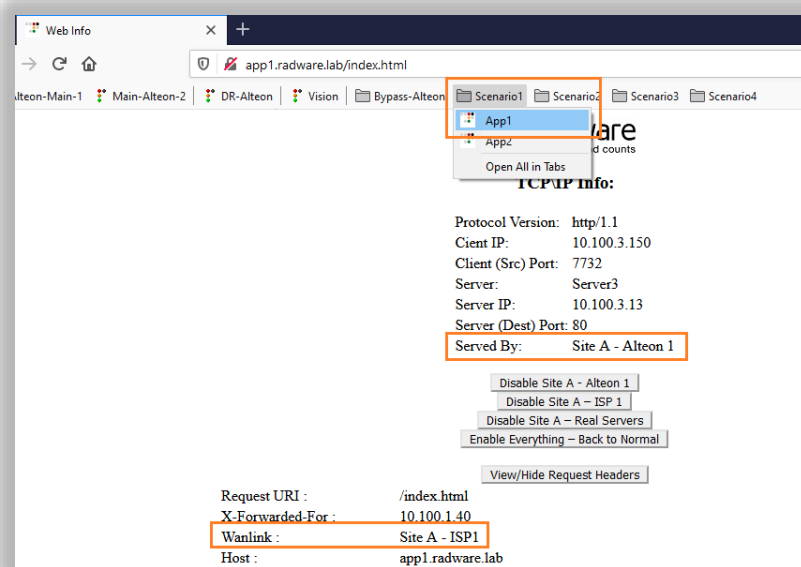
1 Round Robin Global Load Balancing

In this scenario we will demonstrate equal DNS distribution between the three VIPs (Site A ISP1, Site A ISP2, and Site B), each query should get an IP from the three possible VIPs.

- Using Chrome browser navigate to "App1", use the bookmark in "Scenario1" directory.
- Note the "Served By" indicating the responsible Alteon and Wanlink indicating the ISP.
- Refresh the page (using ctrl+f5) several times to verify that load balancing takes place.

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Note:

For the scenario configuration walkthrough refer to [Appendix 1 – GSLB Configuration – Scenario 1](#)

2 Local and Global High Availability

In this scenario, Site 2 functions as a Disaster Recovery (DR) site, traffic will be sent to it only in case Site 1 is unavailable.

We are going to demonstrate the following HA scenarios:

- Failure of Alteon 1 in Site A (failover to Alteon 2).
- Failure of ISP 1 in Site A.
- Failure of Site A and failover to Site B.
- Return everything back to normal.

Note:

For the scenario configuration walkthrough refer to [Appendix 1 – GSLB Configuration – Scenario 2](#)

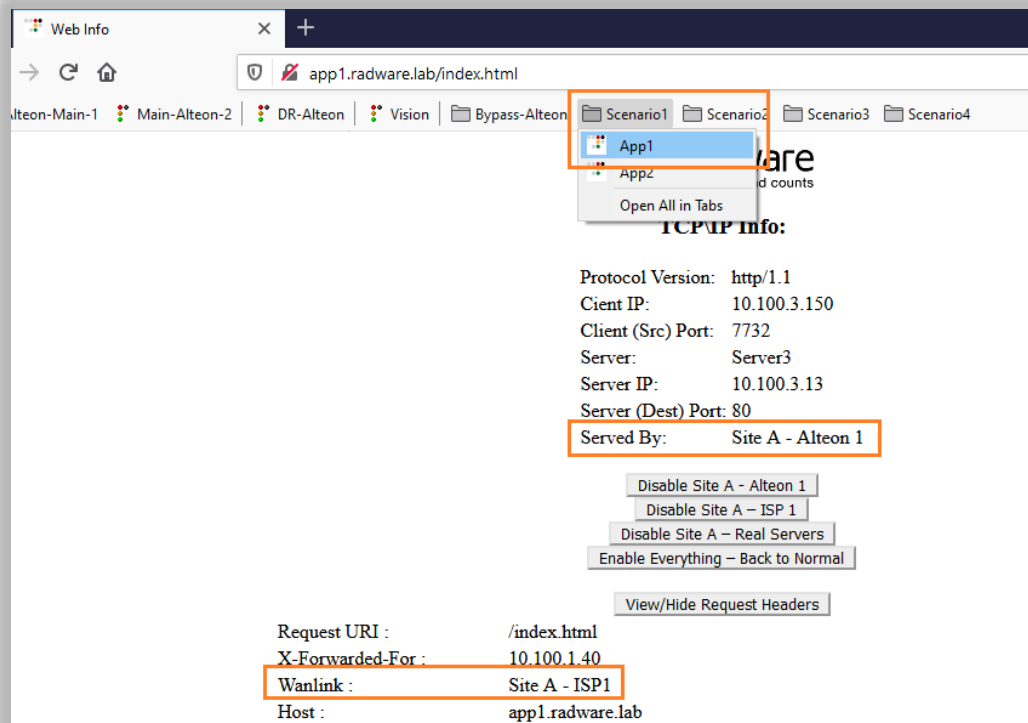
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Establish Baseline

In this scenario we will demonstrate equal DNS distribution between the two VIPs in Site A each query should get an IP from the two possible VIPs (ISP 1 or ISP 2).

- Using Chrome browser navigate to "App-2", use the bookmark in "Scenario1" directory.
- Note the "Served By" indicating the responsible Alteon and Wanlink indicating the ISP
- Refresh the page several times to verify load balancing take place



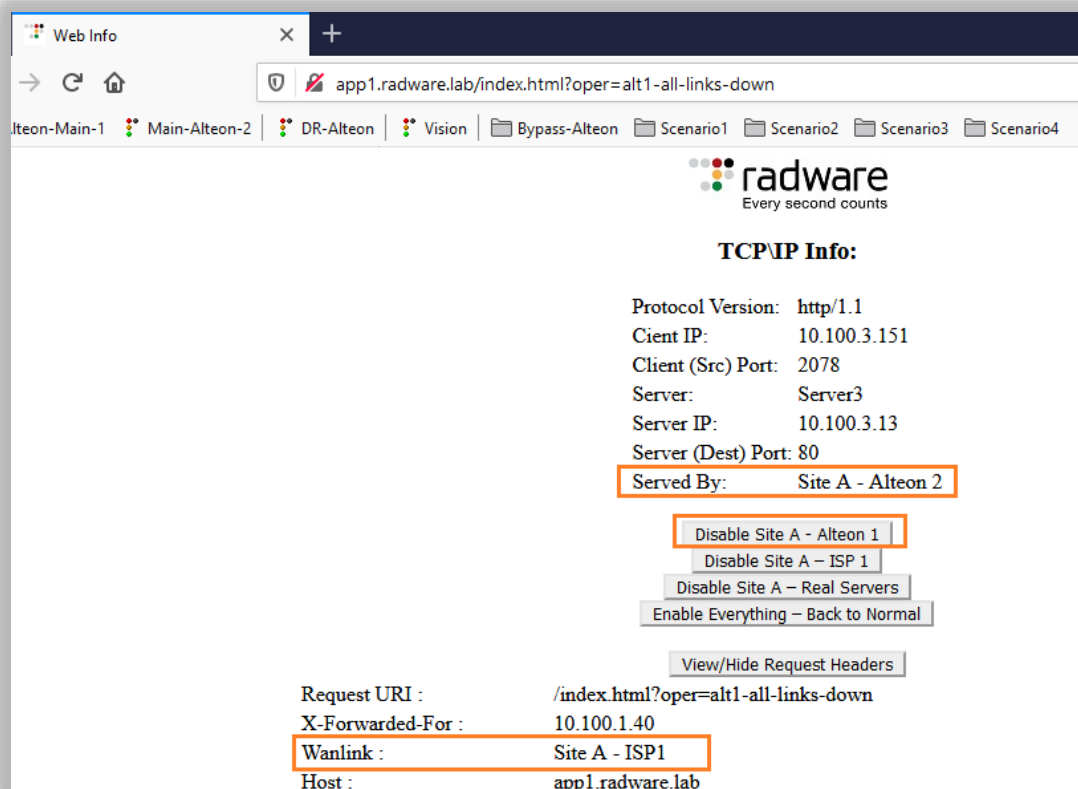
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Main Alteon failover

Alteon-1 and Alteon-2 are configured with High-Availability, failover to Alteon-2 does not impact the service. disable all interfaces of Alteon-1 to simulate the failover.

- Using Chrome browser navigate to "App-2", use the bookmark in "Scenario1" directory.
- Click "Disable Site A – Alteon 1" button
- Note the "Served By" indicating the responsible Alteon and Wanlink indicating the ISP
- Refresh the page several times to verify load balancing



- **OPTIONALLY:** verify links are disabled and Alteon 2 is the Master
 - Logon to Alteon 1 and Alteon 2
 - Navigate to Monitoring > *Network* > *Physical Ports*
 - Note "Operational Status" for each link
 - Navigate to Monitoring > *Network* > *High Availability*

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- Note "State"

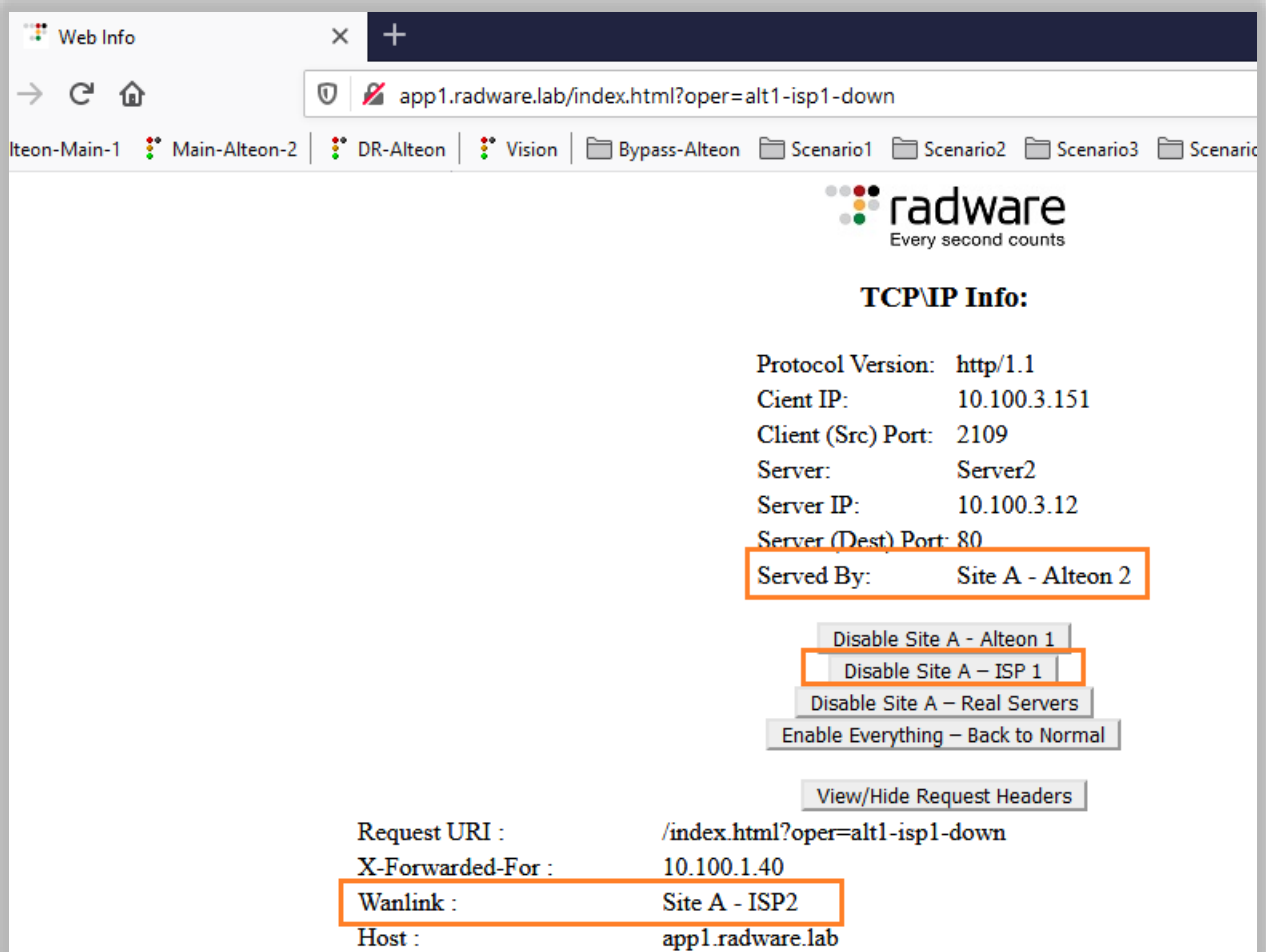
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ISP Link failure

In this scenario we disable ISP 1 in Site A forcing the traffic to go through ISP 2 only.

- Using Chrome browser navigate to "App2", use the bookmark in "Scenario1" directory.
- Click "Disable Site A – ISP 1" button
- Note the "Served By" indicating the responsible Alteon and Wanlink indicating the ISP
- Refresh the page several times to verify load balancing



The screenshot shows a web browser window with the address bar displaying `app1.radware.lab/index.html?oper=alt1-isp1-down`. The browser's tab bar shows several tabs, including "Alteon-Main-1", "Main-Alteon-2", "DR-Alteon", "Vision", "Bypass-Alteon", "Scenario1", "Scenario2", "Scenario3", and "Scenario4". The main content area displays the Radware logo and the text "Every second counts". Below the logo, the "TCP/IP Info:" section is visible, showing the following details:

- Protocol Version: http/1.1
- Client IP: 10.100.3.151
- Client (Src) Port: 2109
- Server: Server2
- Server IP: 10.100.3.12
- Server (Dest) Port: 80
- Served By: Site A - Alteon 2

Below the TCP/IP info, there are four buttons: "Disable Site A - Alteon 1", "Disable Site A - ISP 1", "Disable Site A - Real Servers", and "Enable Everything - Back to Normal". The "Disable Site A - ISP 1" button is highlighted with an orange box. Below these buttons is a "View/Hide Request Headers" button. The "Request Headers:" section is expanded, showing the following details:

- Request URI: /index.html?oper=alt1-isp1-down
- X-Forwarded-For: 10.100.1.40
- Wanlink: Site A - ISP2
- Host: app1.radware.lab

The "Wanlink: Site A - ISP2" entry is highlighted with an orange box.

- **OPTIONALLY:** Logon to Alteon 2 and verify ISP link 1 (port 2) is disabled
 - Logon to Alteon 2
 - Navigate to Monitoring > *Network* > *Physical Ports*

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- Note "Operational Status" for each link

Note:

It may take some time for the client to issue a new DNS request to reach the service

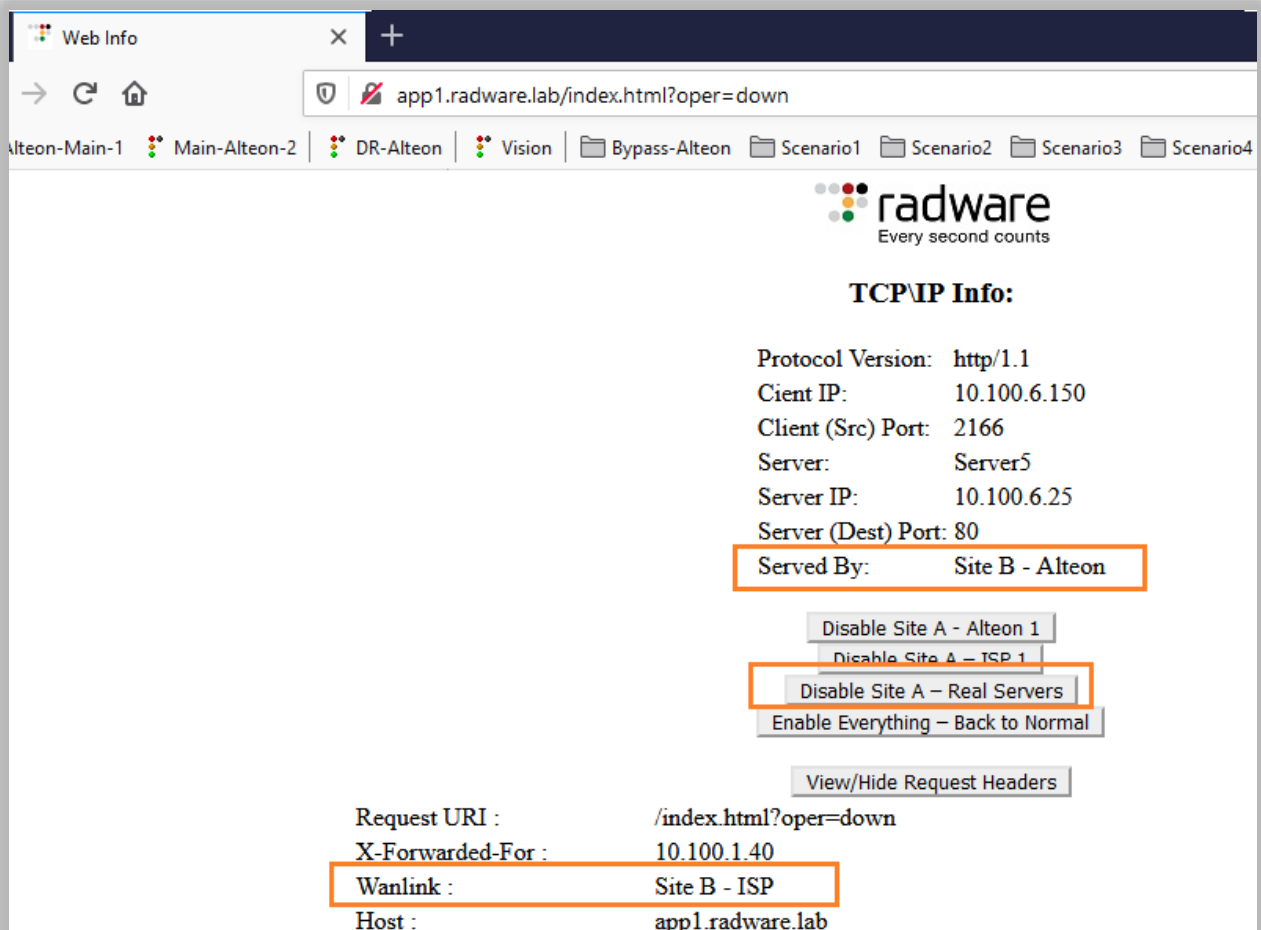
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Failover to DR site

In this scenario we disable all local servers of Site A forcing the traffic to go to Site B.

- Using Chrome browser navigate to "App2", use the bookmark in "Scenario1" directory.
- Click "Disable Site A – Real Servers" button
- Note the "Served By" indicating the responsible Alteon and Wanlink indicating the ISP
- Refresh the page several times to verify load balancing



- **OPTIONALLY:** Logon to Alteon 2 and verify real servers are down
 - Logon to Alteon 2
 - Navigate to Monitoring > *Application Delivery* > *Server Resources* > *Real Servers*

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- Note "Server Status" of each server

Note:

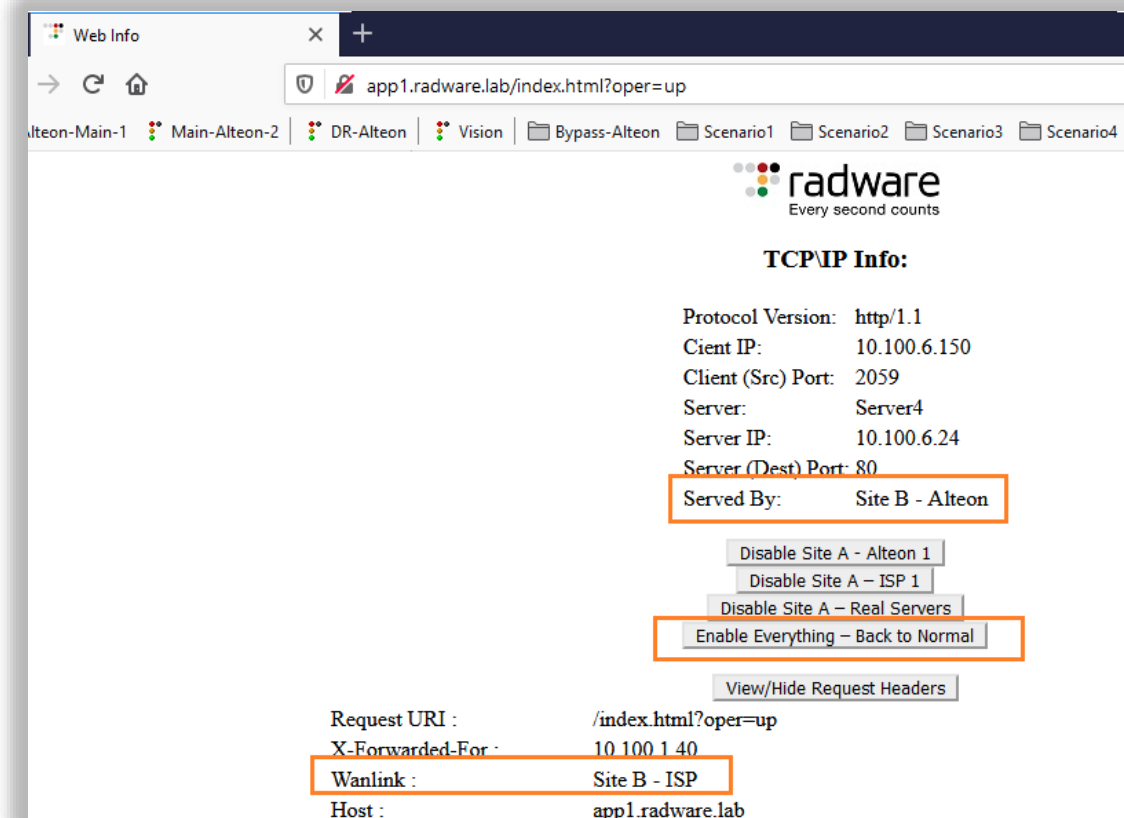
It may take some time for the client to issue a new DNS request to reach the service

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Failback to Original Status

- Using Chrome browser navigate to "App2", use the bookmark in "Scenario1" directory.
- Click "Enable Everything – Back to Normal" button
- Note the "Served By" indicating the responsible Alteon and Wanlink indicating the ISP
- Refresh the page several times to verify load balancing



- **OPTIONALLY:** Logon to Alteon 1 and verify it is the Master, links and real servers are up
 - Logon to Alteon 1 and Alteon 2
 - Navigate to Monitoring > *Network* > *Physical Ports*
 - Note "Operational Status" for each link
 - Navigate to Monitoring > *Network* > *High Availability*
 - Note "State"

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- Navigate to Monitoring > *Application Delivery* > *Server Resources* > *Real Servers*
- Note "Server Status" of each server

Note:

It may take some time for the client to issue a new DNS request to reach the service

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SSL Offloading and Layer 7 Modification Scenarios

In this section we will demonstrate HTTP header and body modification as well as SSL and Compression offloading by the Alteon.

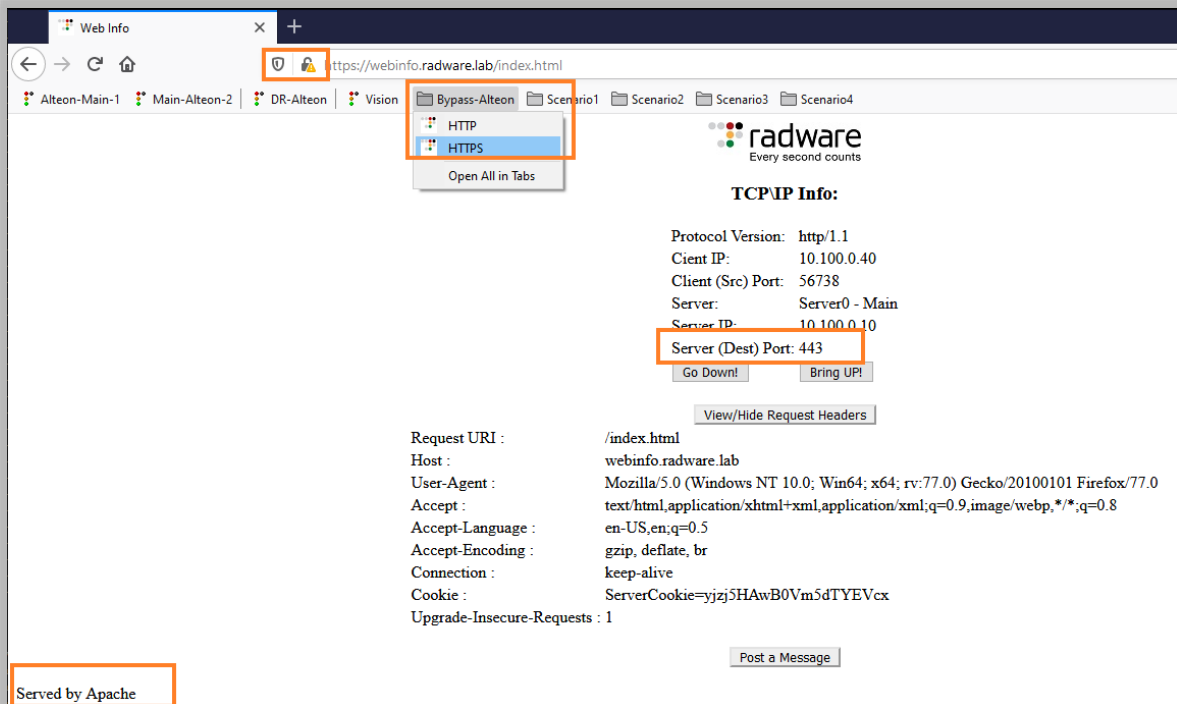
1. Browse Directly to Web Server

In this scenario we show the server response to client request.

- Using Chrome browser Navigate to the application bypassing the Alteon, Use "HTTPS" bookmark in the "Bypass-Alteon" directory.
- Note the following:
 - SSL alert in the address bar
 - Server port is 443
 - No SSL information found in request headers
 - No X-Forwarded-For, X-Cipher-Suite and X-SSL headers
 - GZIP encoding is allowed
 - Statement "Served by Apache"

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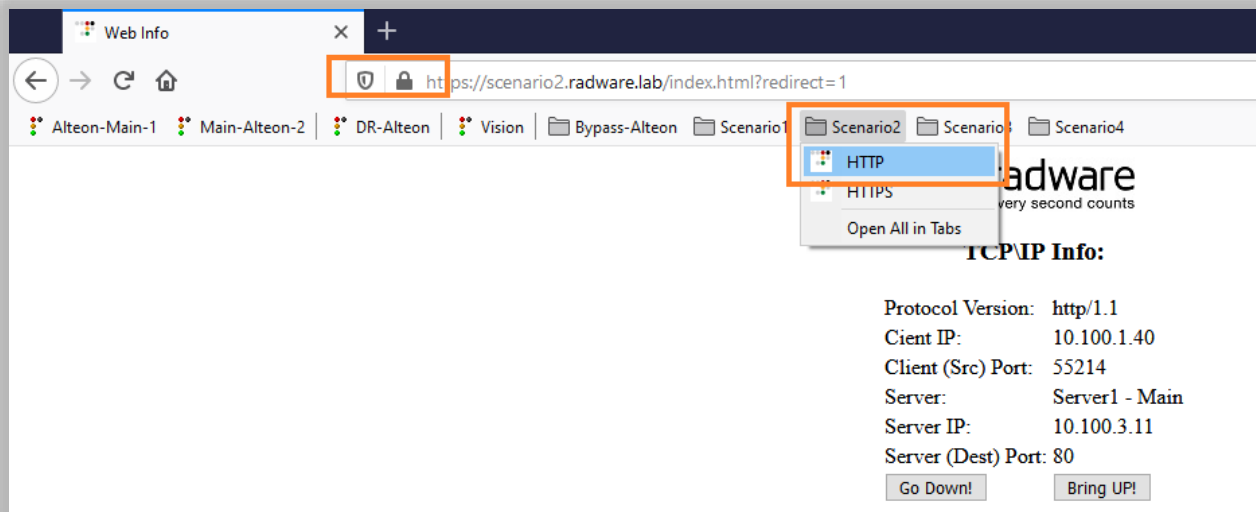
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Redirect HTTP to HTTPS

In this scenario we demonstrate how the Alteon modifies HTTP requests to HTTPS using 307 redirect.

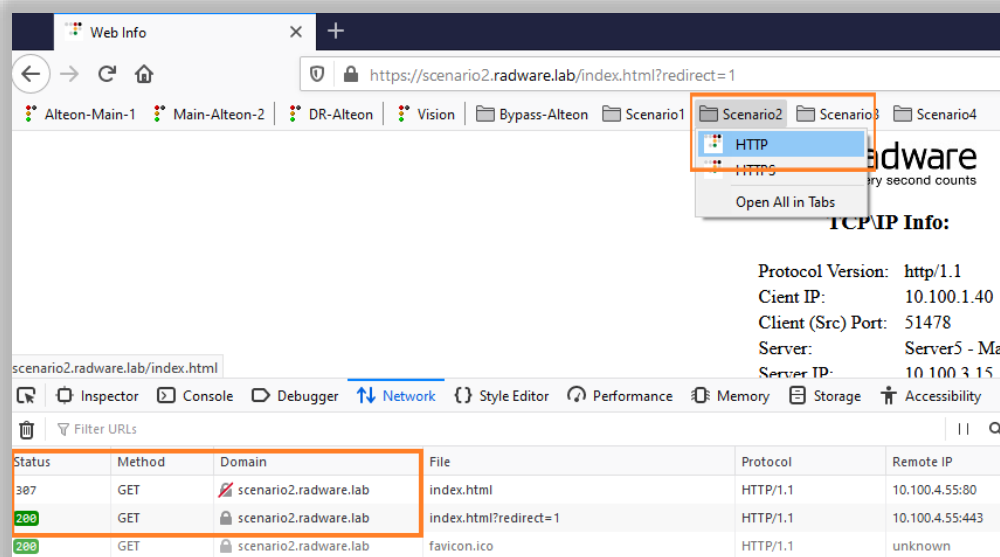
- Using Chrome browser Navigate to the application through the Alteon, Use "HTTP" bookmark in the "Scenario 2" directory.
- Note the bookmark is for HTTP, but the connection is HTTPS.



OPTIONAL: to view the redirect use Chrome debugger (F12) Network tab

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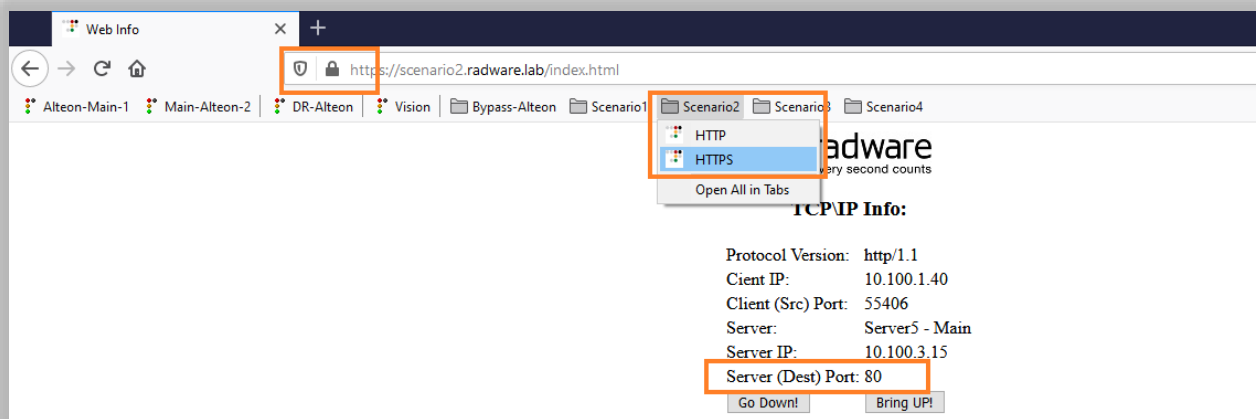
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SSL Offloading

In this scenario we demonstrate the SSL offloading feature.

- Using Chrome browser Navigate to the application through the Alteon, Use "HTTPS" bookmark in the "Scenario 2" directory.
- Note even though the connection is secure the Server got a connection on port 80



Note:

For the scenario configuration walkthrough refer to [Appendix 2 – SSL Offloading and L7 Modification – Scenario 1](#)

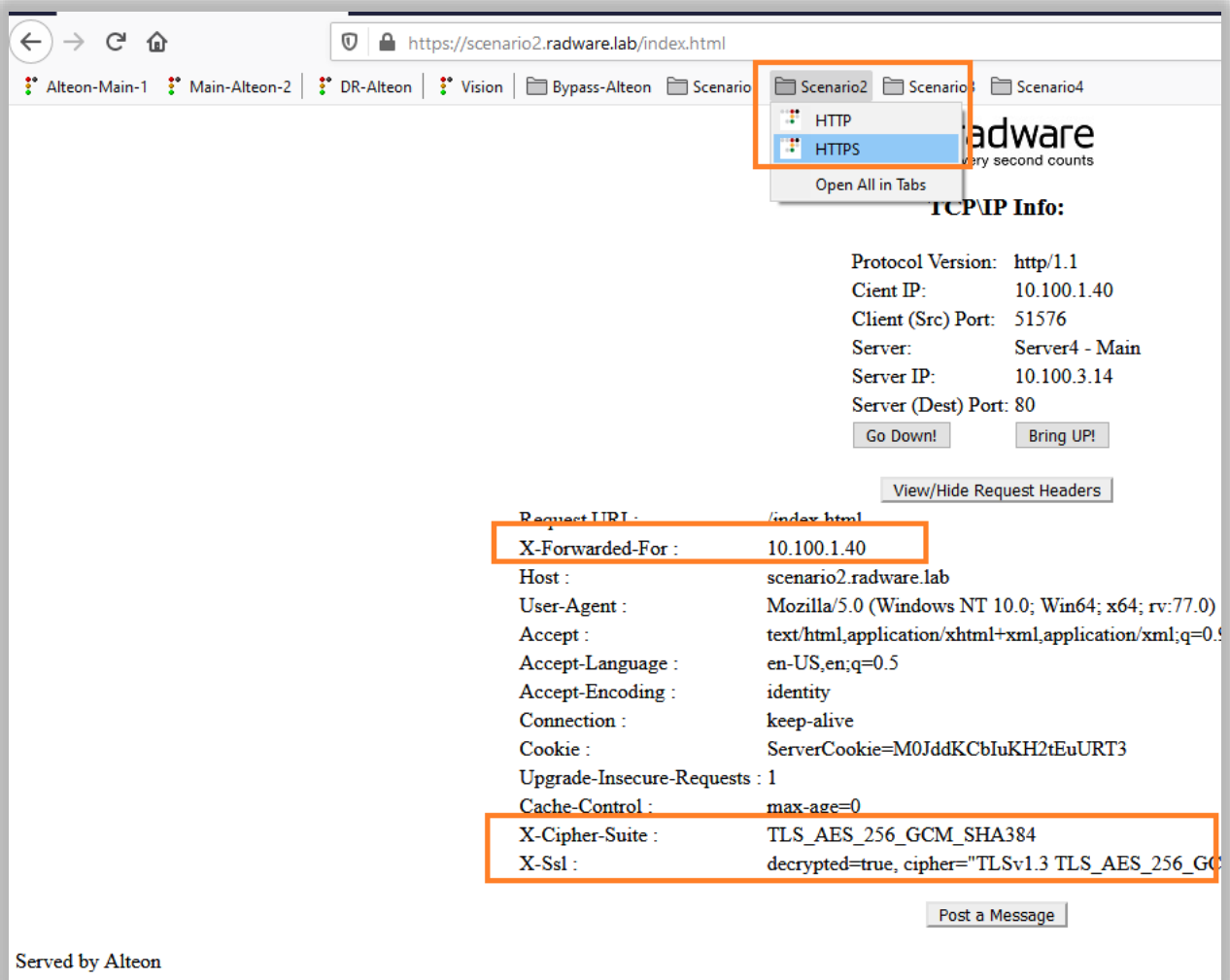
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2. HTTP Header Injection

In this scenario we demonstrate multiple headers injection by the Alteon.

- Using Chrome browser Navigate to the application through the Alteon, Use "HTTPS" bookmark in the "Scenario 2" directory
- Note X-Forwarded-For, X-Cipher-Suite and X-SSL headers were added (Was not there when browsing directly to the server in scenario 1).



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For the scenario configuration walkthrough refer to [Appendix 2 – SSL Offloading and L7 Modification – Scenario 2](#)

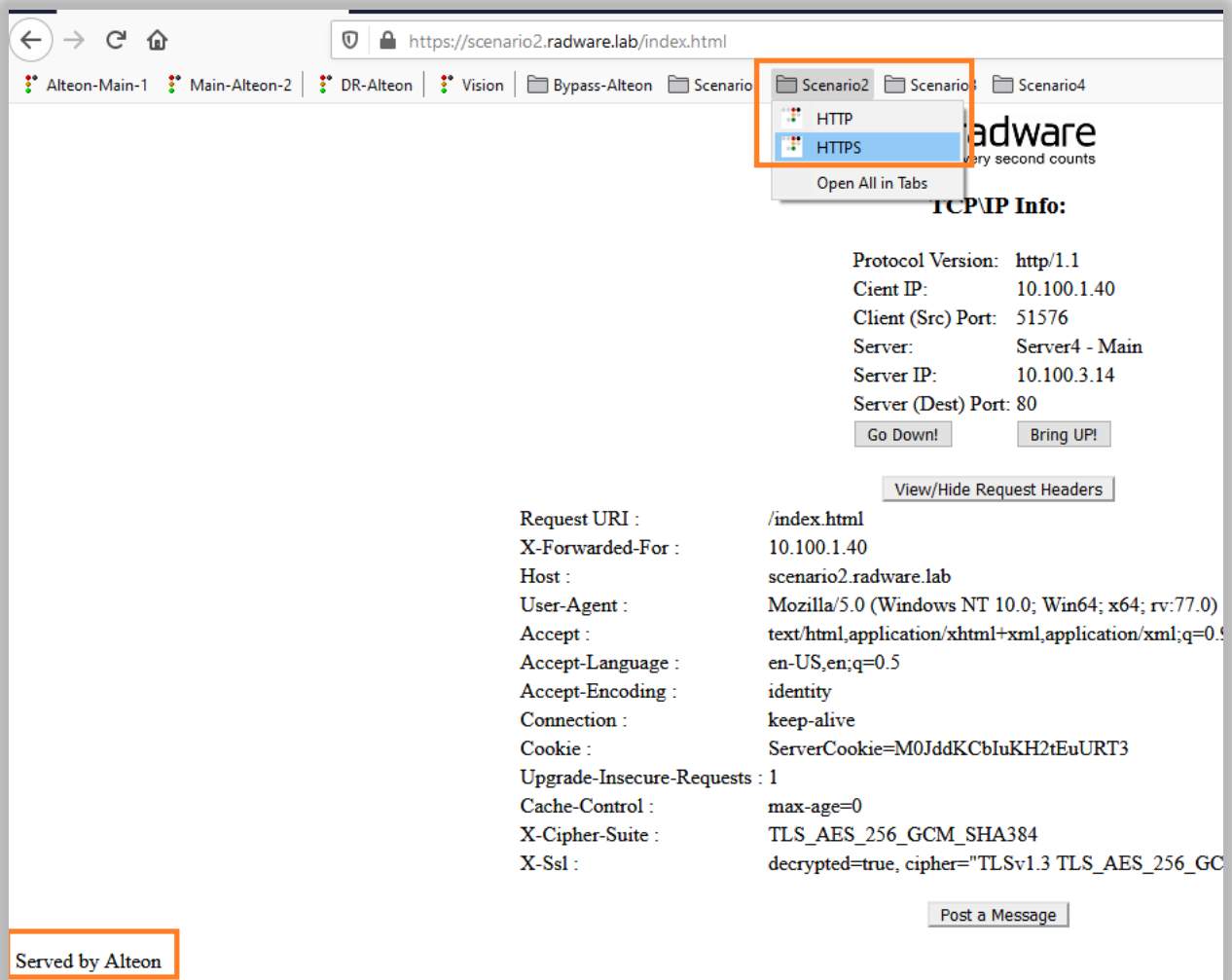
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3. HTTP Body Modification

In this scenario we demonstrate HTTP content modification by the Alteon.

- Using Chrome browser Navigate to the application through the Alteon, Use "HTTPS" bookmark in the "Scenario 2" directory.
- Note bottom statement states "Served by Alteon" (Was "Server by Apache" when browsing directly to the server in scenario 1)



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For the scenario configuration walkthrough refer to [Appendix 2 – SSL Offloading and L7 Modification – Scenario 3](#)

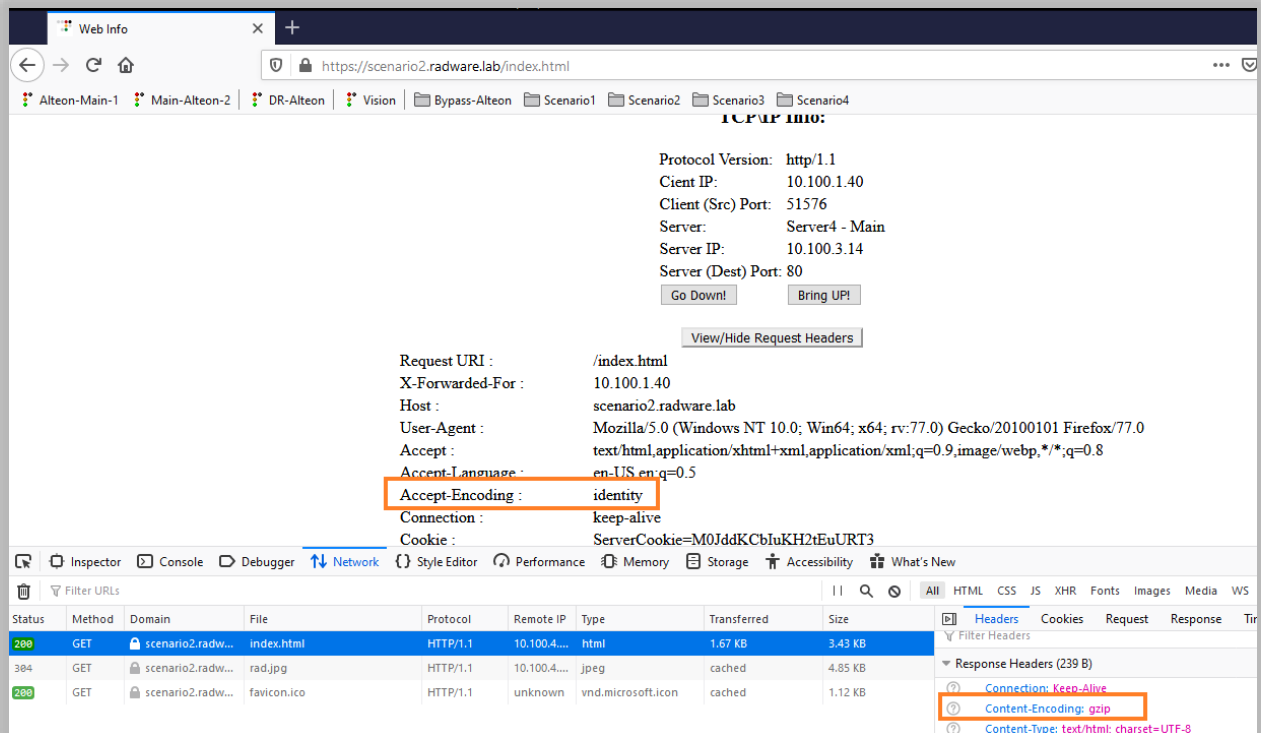
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4. Compression Offloading

In this scenario we demonstrate the Compression offloading feature.

- Use Chrome debugger (F12) Network tab, Refresh the page and select "scenario2.radware.lab" to view request and response headers
- Note "Accept-Encoding" header received by the server is set to identity (meaning compression is not allowed) but "Content-Encoding" in the response to the client is set to 'GZIP' Meaning the traffic between Client and Alteon is compressed but traffic between Alteon and server is not compressed.



Note:

For the scenario configuration walkthrough refer to [Appendix 2 – SSL Offloading and L7 Modification – Scenario 4](#)

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Content Based Load Balancing Scenarios

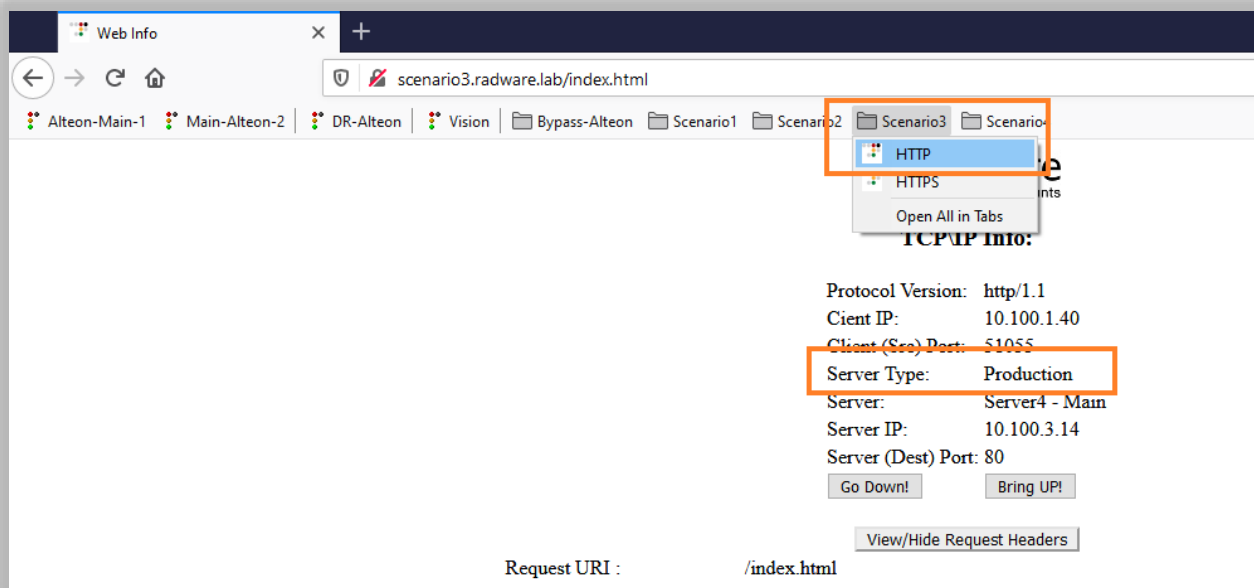
In this section we will demonstrate server group selection based on host name as follows:

| Hostname | Group Name | Group Members |
|---------------------------|----------------|------------------------------------------|
| Scenario3-dev.radware.lab | Scenario3-dev | Server #1 (10.100.3.11) |
| Scenario3-stg.radware.lab | Scenario3-stg | Server #2 and Server #3 (10.100.3.12-13) |
| Scenario3.radware.lab | Scenario3-prod | Server #4 and Server #5 (10.100.3.14-15) |

1. HTTP Content Based Rules

In this scenario the Alteon reads the HTTP headers and performs the decision based on the host header.

- Use Chrome browser and navigate to "Scenario3 – **Prod** – HTTP" found in "Scenario 3" directory.
- Note the server type is **production**.



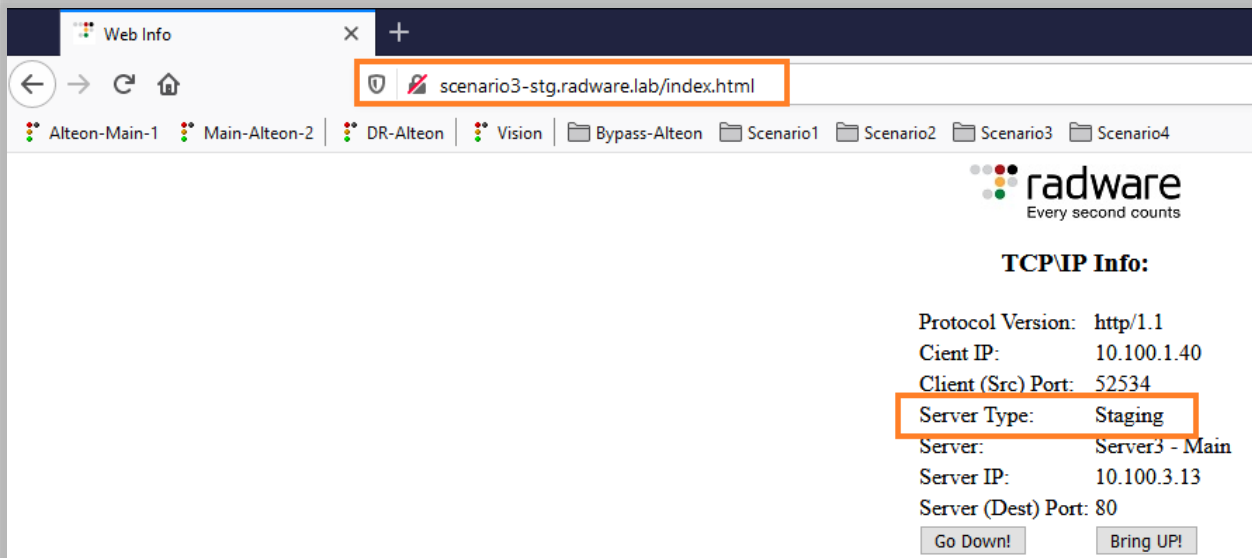
Note:

For the scenario configuration walkthrough refer to [Appendix 3 – Content Based Rules – Scenario 1](#)

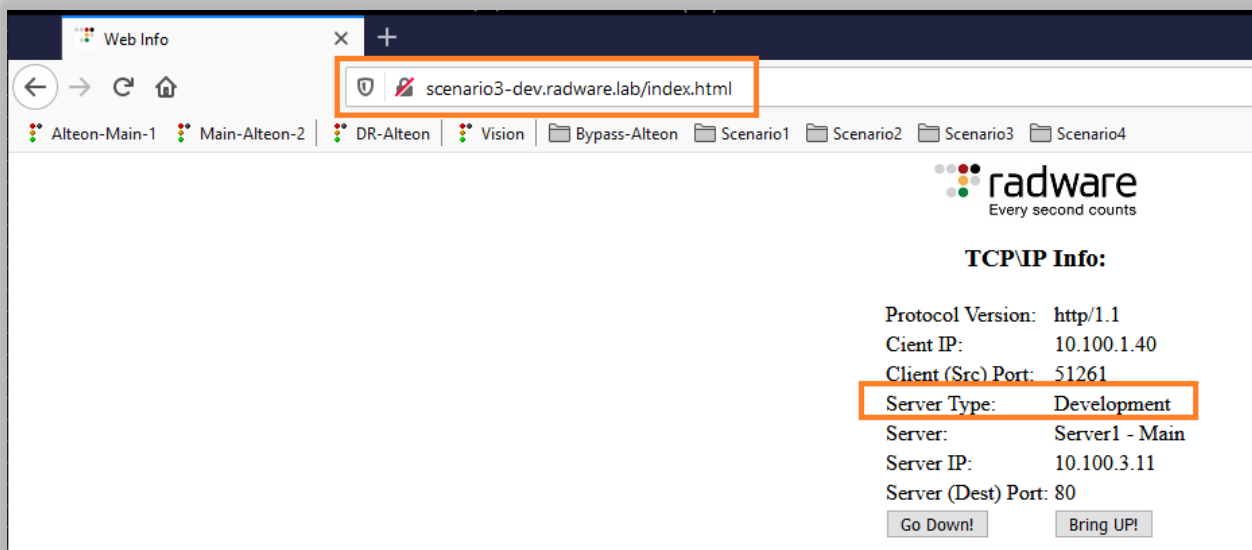
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- Add "-stg" to change the URL to: "<http://scenario3-stg.radware.lab/>"
- Note the server type is **Staging**.



- Change "stg" in the URL to "dev" to get "<http://scenario3-dev.radware.lab/>"
- Note the server type is **Development**.



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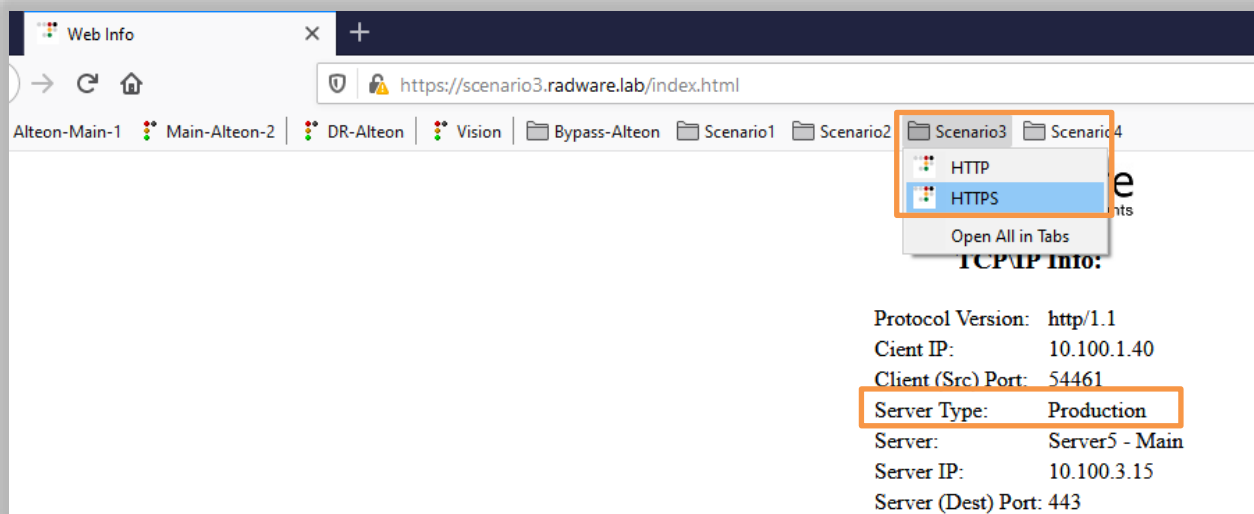
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2. HTTPS Content Based Rules

In this scenario the Alteon selects the server group based on the value of the Server Name Indication (SNI) header without SSL/TLS offloading.

- Use Chrome browser and navigate to "Scenario3 – **Prod** – HTTPS" found in "Scenario 3" directory
- Note that the server port is 443
- Note the server type is **Production**.



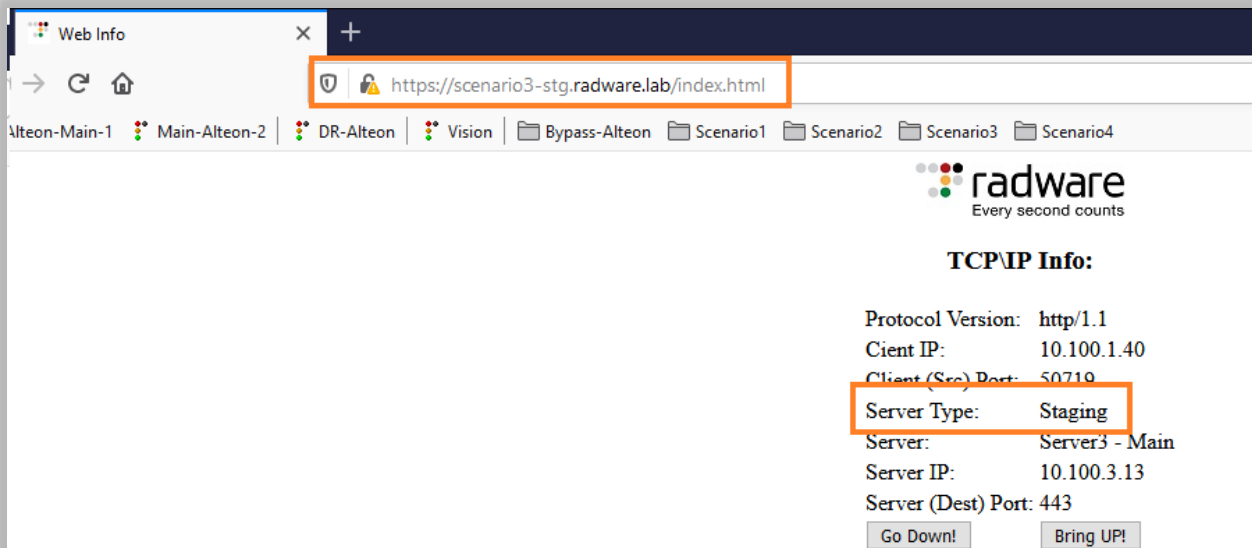
Note:

For the scenario configuration walkthrough refer to [Appendix 3 – Content Based Rules – Scenario 2](#)

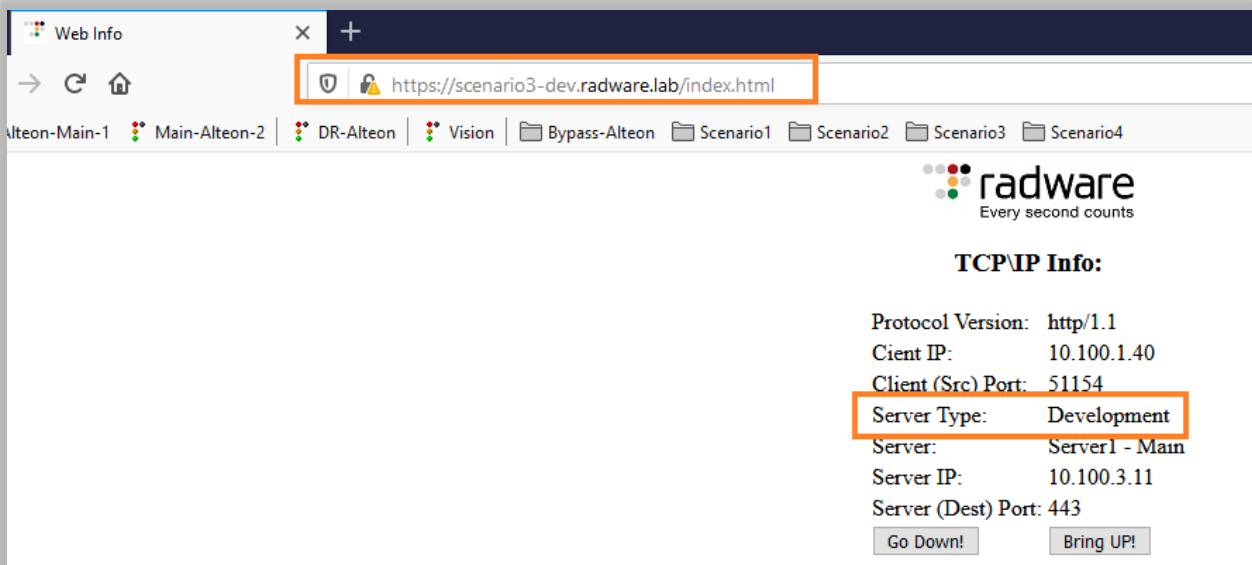
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- Add "-stg" to change the URL to: "<https://scenario3-stg.radware.lab/>"
- Note the server type is **Staging**.



- Change "stg" in the URL to "dev" to get "<https://scenario3-dev.radware.lab/>"
- Note the server type is **Development**.



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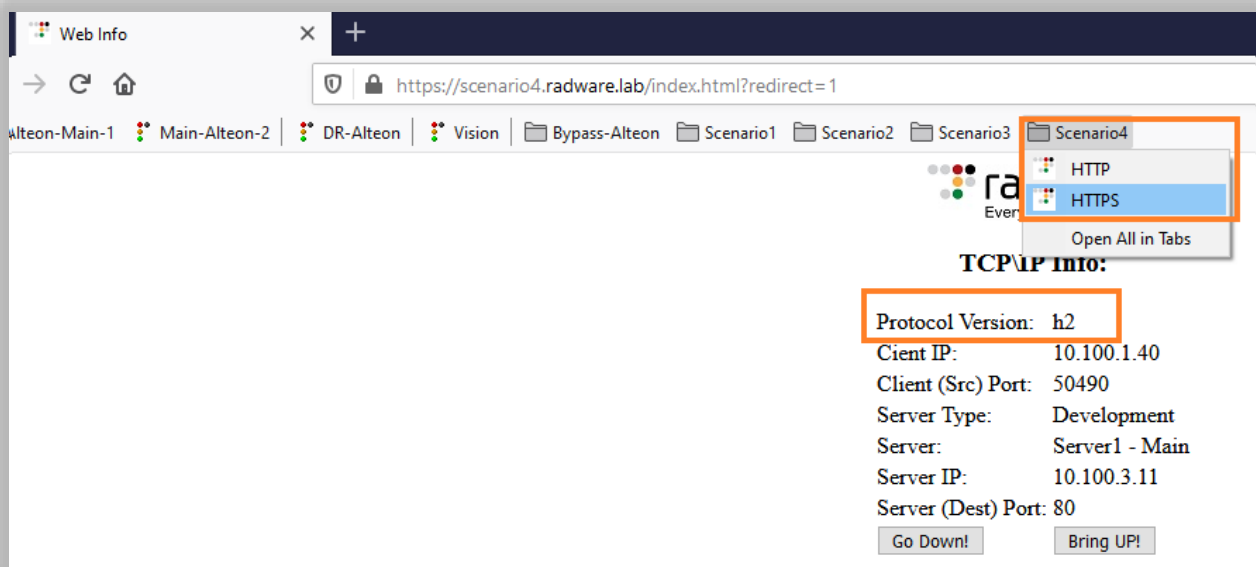
HTTP2 Gateway Scenario

In this scenario we will demonstrate using the Alteon as an HTTP2 gateway, traffic from client to Alteon is HTTP/2.0 and from Alteon to server is HTTP/1.1

Note:

For the scenario configuration walkthrough refer to [Appendix 4 - HTTP/2.0 GW](#)

- Using Chrome navigate to the application use the "HTTPS" bookmark located in the "Scenario 4" directory
- Note protocol is H2 meaning HTTP/2.0 – In order to visualize the protocol webpage is embedded with a JavaScript displaying the HTTP version of the browser (between client and Alteon) same information can be viewed via Chrome debugger (F12)



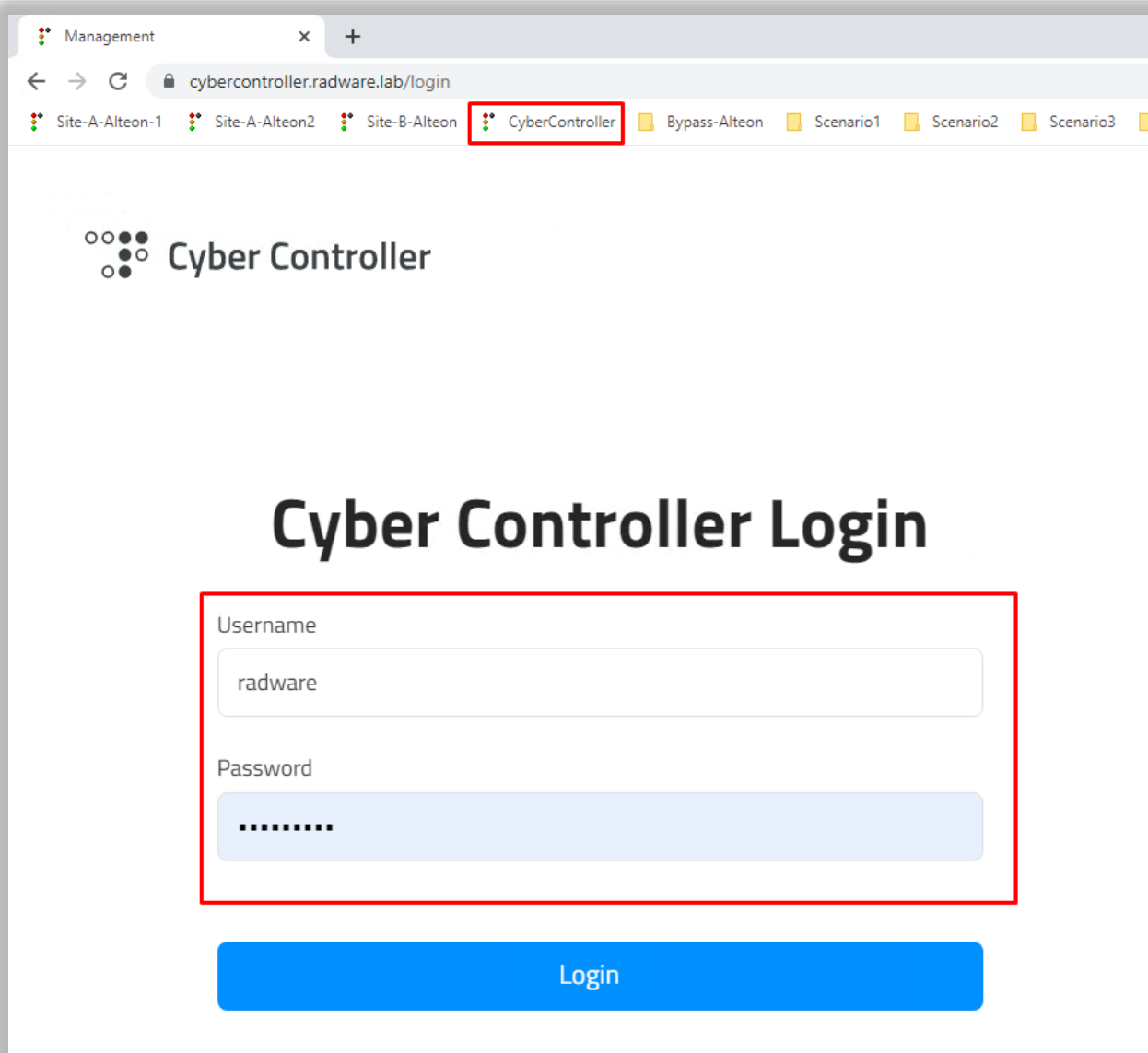
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Scenario – 5 – Advanced Analytics

In this scenario we will demonstrate logs collected by the Cyber controller analytics engines, show different information ranging from L4 through L7.


- Login to Cyber controller (radware:Radware1!)



Management x +

cybercontroller.radware.lab/login

Site-A-Alteon-1 Site-A-Alteon2 Site-B-Alteon CyberController Bypass-Alteon Scenario1 Scenario2 Scenario3

 Cyber Controller

Cyber Controller Login

Username

radware

Password

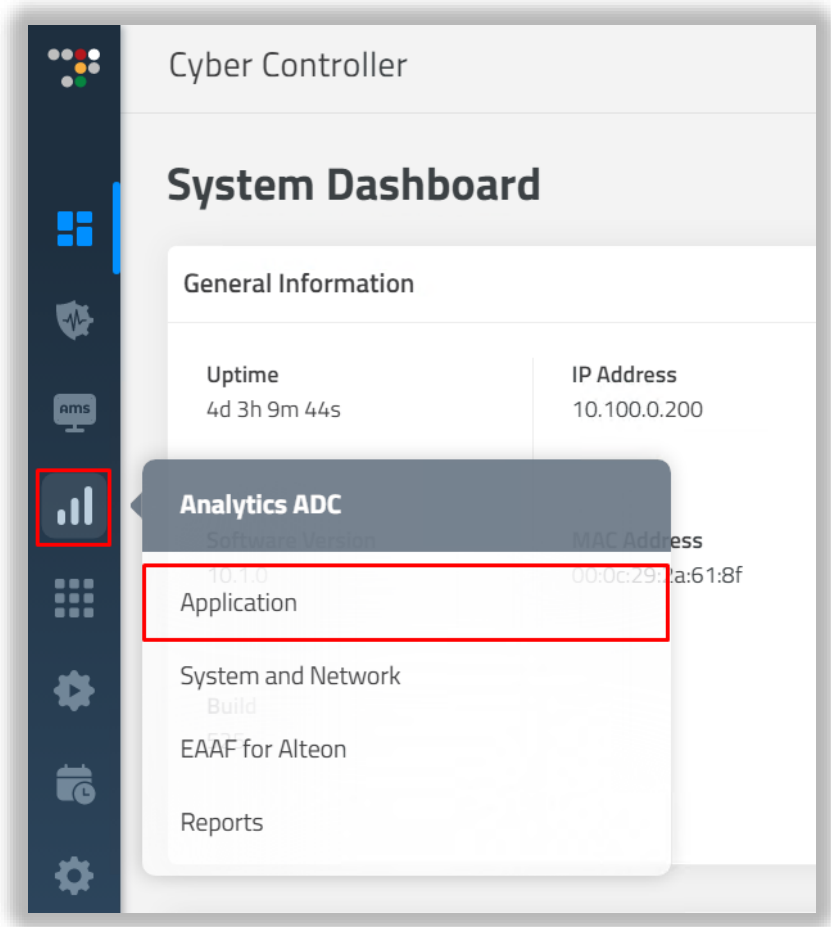
.....

Login

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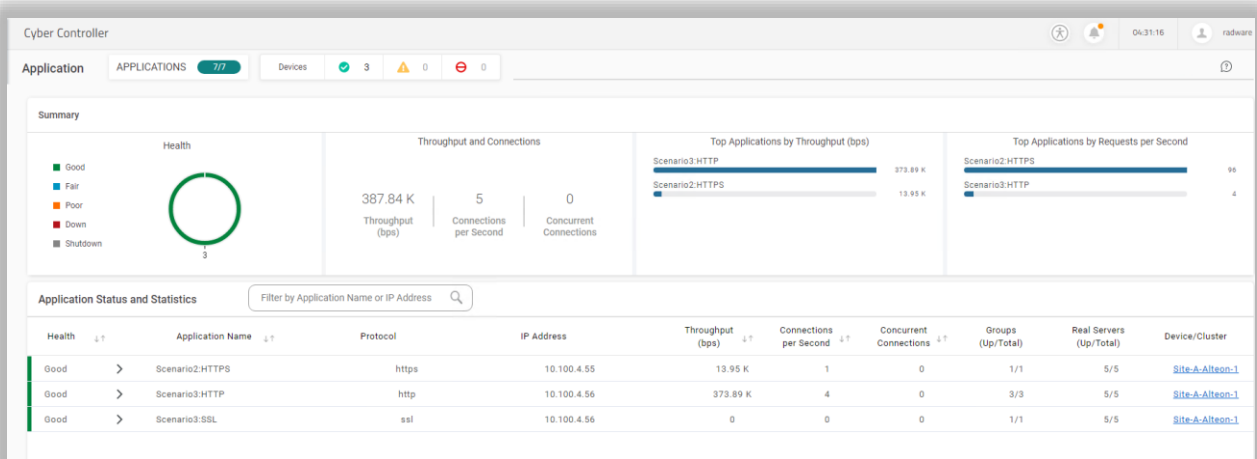
Navigate to "Analytics ADC" and click Application



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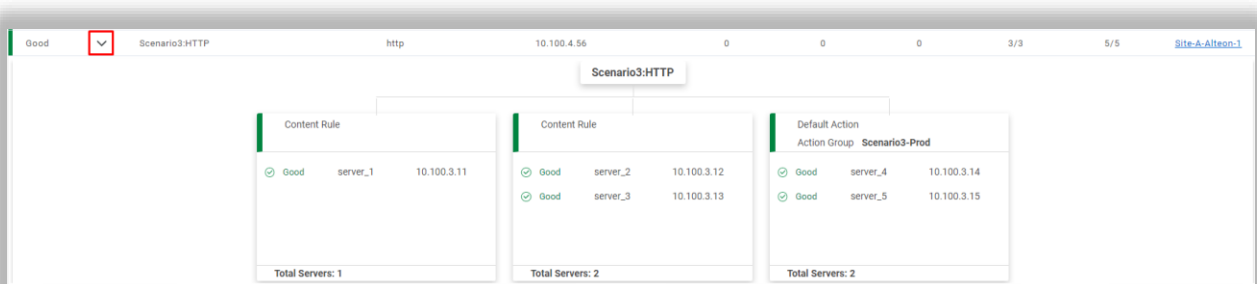
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The following window opens



Note "Top-Talkers" and other layer4 information about the services.

- Expand "Scenario3:HTTP" by clicking the Arrow near it

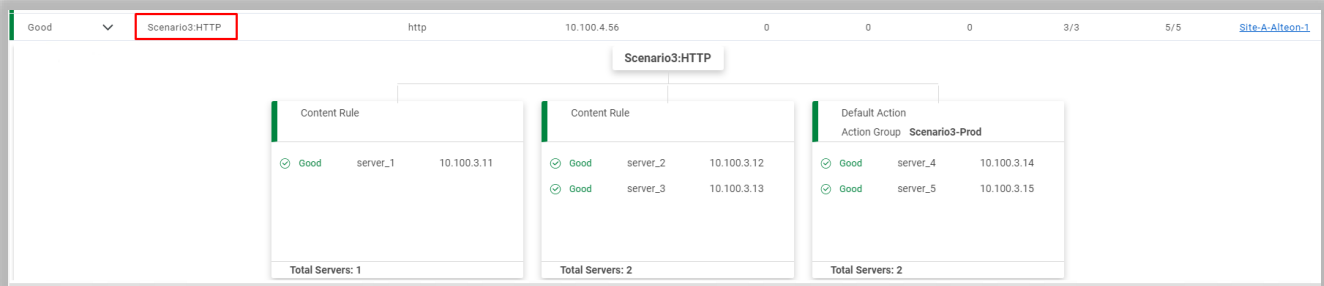


Note the content rules, service and servers' status visualization

- Drill down into "Scenario3:HTTP" by clicking it

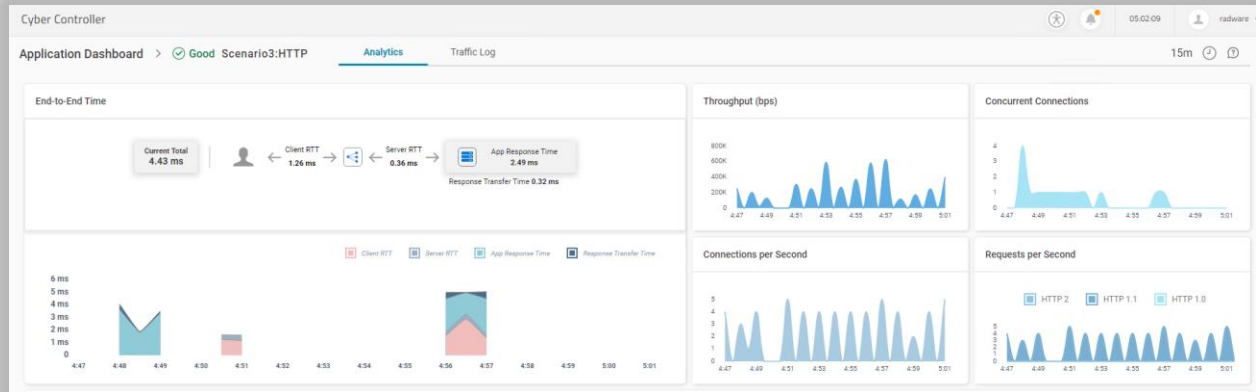
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The following window opens:

Note application statistics, such as end to end RTT, throughput, CPS, etc...

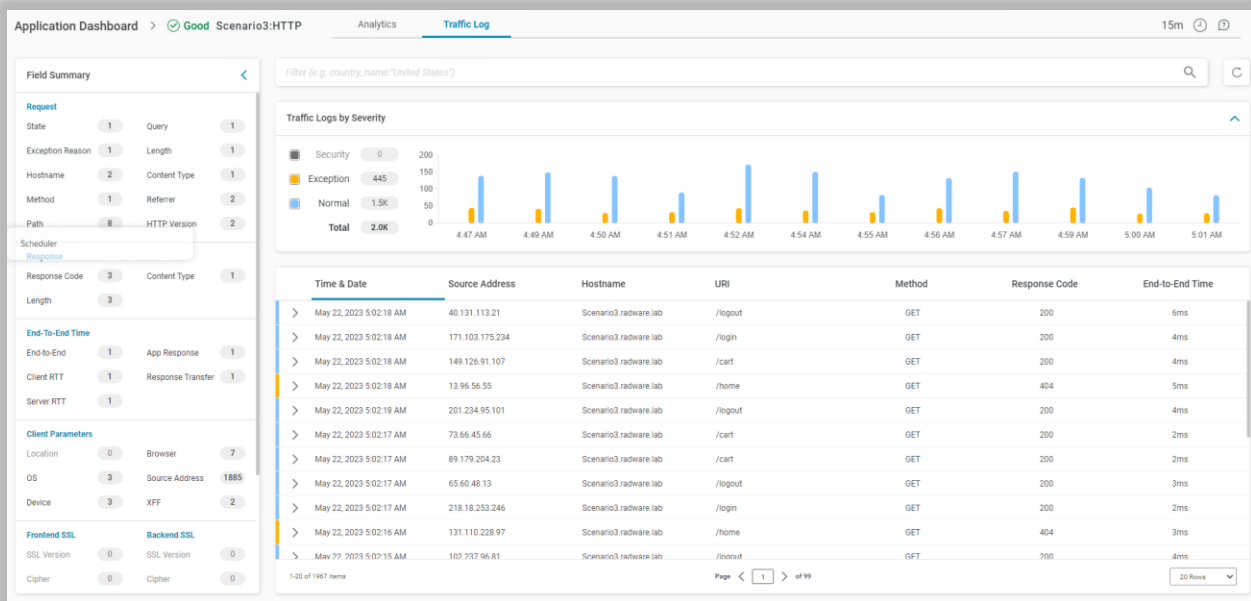


- Navigate to "Traffic Log" and Note the HTTP information from the different requests.

The following window opens:

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- Expand one of the requests for more information

| | Time & Date | Source Address | Hostname | URI | Method | Response Code | End-to-End Time |
|---|-------------------------|-----------------|-----------------------|---------|--------|---------------|-----------------|
| > | May 22, 2023 5:02:18 AM | 40.131.113.21 | Scenario3.radware.lab | /logout | GET | 200 | 6ms |
| > | May 22, 2023 5:02:18 AM | 171.103.175.234 | Scenario3.radware.lab | /login | GET | 200 | 4ms |
| > | May 22, 2023 5:02:18 AM | 149.126.91.107 | Scenario3.radware.lab | /cart | GET | 200 | 4ms |
| > | May 22, 2023 5:02:18 AM | 13.96.56.55 | Scenario3.radware.lab | /home | GET | 404 | 5ms |
| > | May 22, 2023 5:02:18 AM | 201.234.95.101 | Scenario3.radware.lab | /logout | GET | 200 | 4ms |
| > | May 22, 2023 5:02:17 AM | 73.66.45.66 | Scenario3.radware.lab | /cart | GET | 200 | 2ms |
| > | May 22, 2023 5:02:17 AM | 89.179.204.23 | Scenario3.radware.lab | /cart | GET | 200 | 2ms |
| > | May 22, 2023 5:02:17 AM | 65.60.48.13 | Scenario3.radware.lab | /logout | GET | 200 | 3ms |
| > | May 22, 2023 5:02:17 AM | 218.18.253.246 | Scenario3.radware.lab | /login | GET | 200 | 2ms |
| > | May 22, 2023 5:02:16 AM | 131.110.228.97 | Scenario3.radware.lab | /home | GET | 404 | 3ms |
| > | May 22, 2023 5:02:15 AM | 102.237.96.81 | Scenario3.radware.lab | /logout | GET | 200 | 4ms |

1-20 of 1987 items Page 1 of 99 20 Rows

The following window opens:

| | Time & Date | Source Address | Hostname | URI | Method | Response Code | End-to-End Time |
|---|-------------------------|----------------|-----------------------|---------|--------|---------------|-----------------|
| ✓ | May 22, 2023 5:02:18 AM | 201.234.95.101 | Scenario3.radware.lab | /logout | GET | 200 | 4ms |

Request

State Sent to client

Exception Reason

Hostname Scenario3.rad...

Method GET

Path /logout

WAF Transaction ID

Query Length 0 B

Content Type text/html

Referrer http.test.lab

HTTP Version 1.1

Response

Response Code 200

Length 3.3 KB

Content Type text/html

End-To-End Time

Current Total 4.6 ms

Client RTT 1.5 ms

Server RTT 0.2 ms

App Response Time 2.9 ms

Response Transfer Time 0.1 ms

Client Parameters

Location

OS Windows

Device Other

Browser Firefox

Source Address 201.234.95.101

XFF 10.100.3.10

FrontEnd SSL

SSL Version

Cipher

SSL Policy

SNI Hostname

BackEnd SSL

SSL Version

Cipher

Alteon

Content Class

Group Name Scenario3-prod

Server Name server_5

Server Address 10.100.3.15

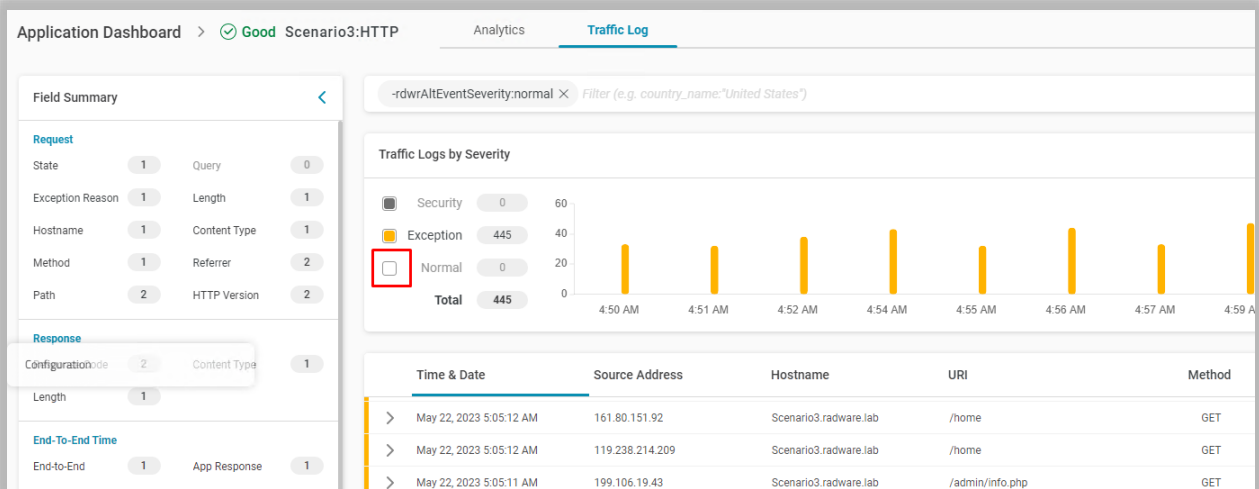
Server Port 80

Instance ID 10.100.0.51

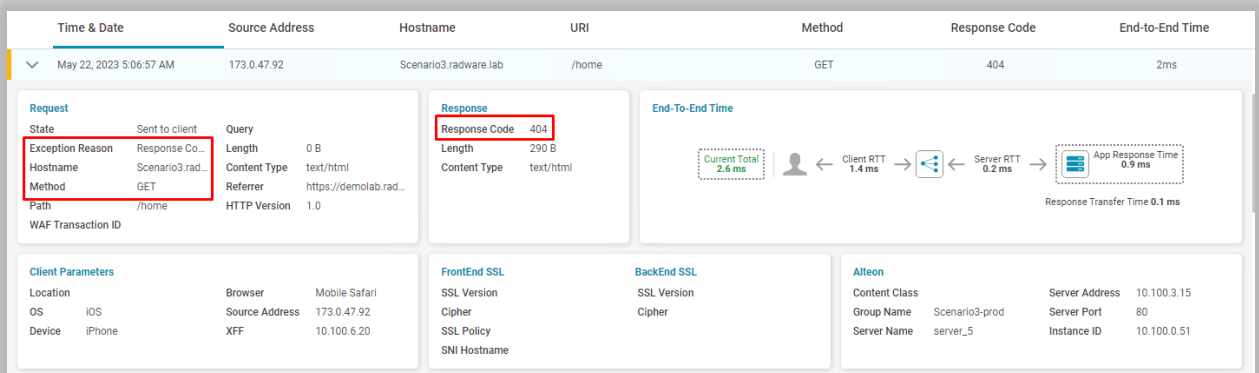
Note request information as well as the client parameters.

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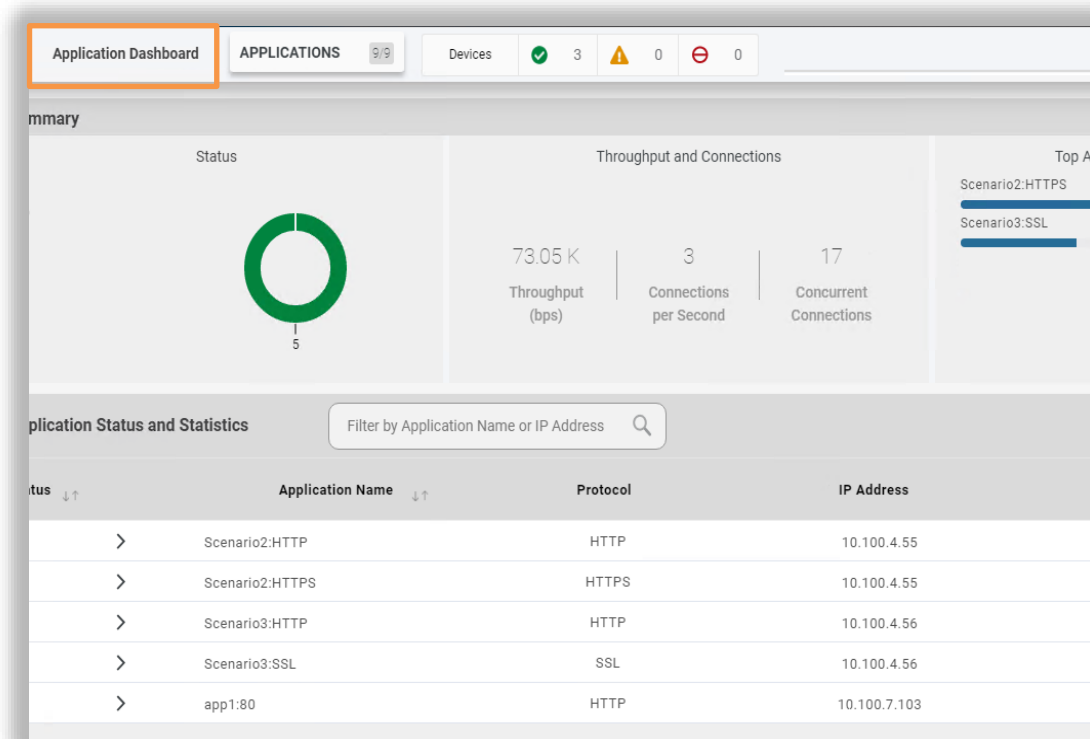
- Drilldown to failed requests by unchecking "Normal" and leaving only "Exception".
- Expand one of the exceptions by clicking the arrow next to it and note the Exception reason as well as the response code.



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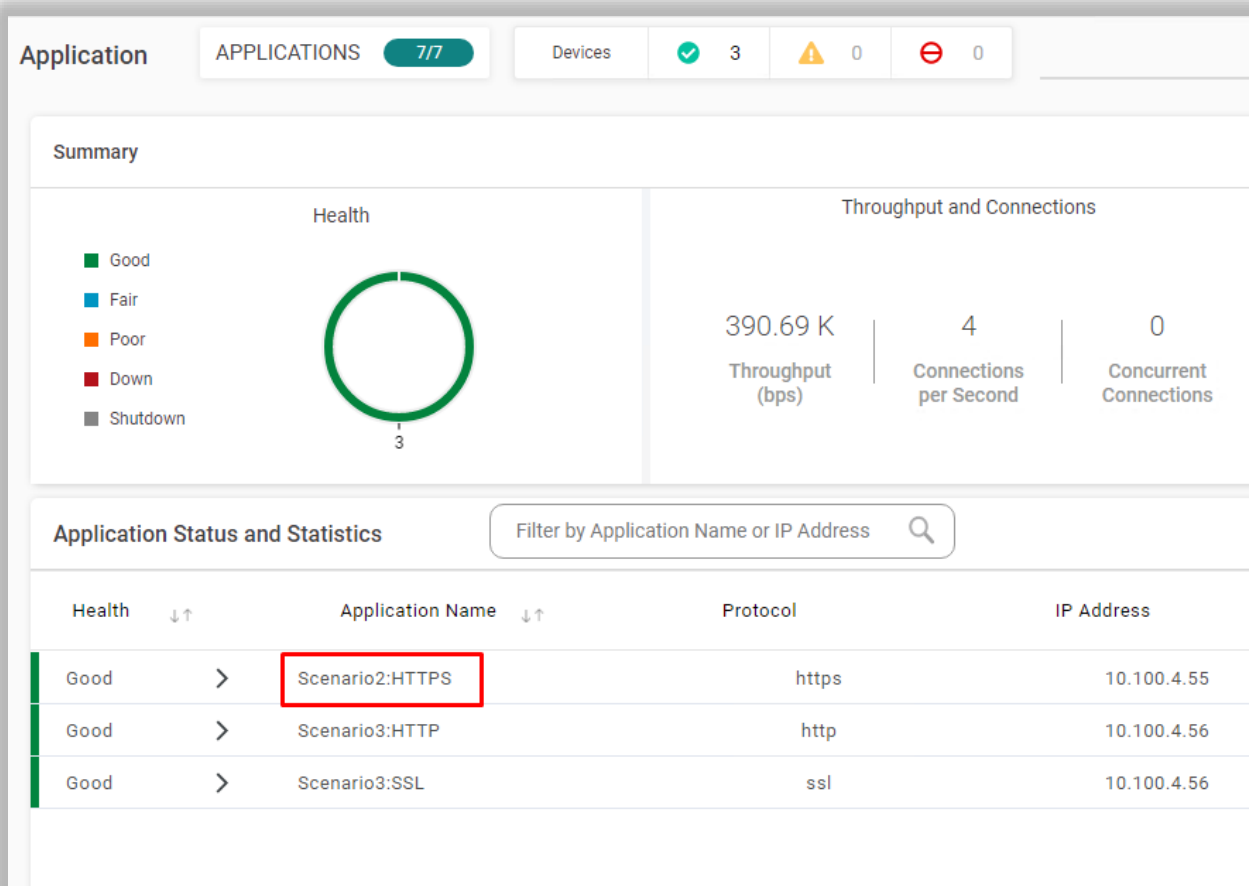
- Navigate back to Application dashboard



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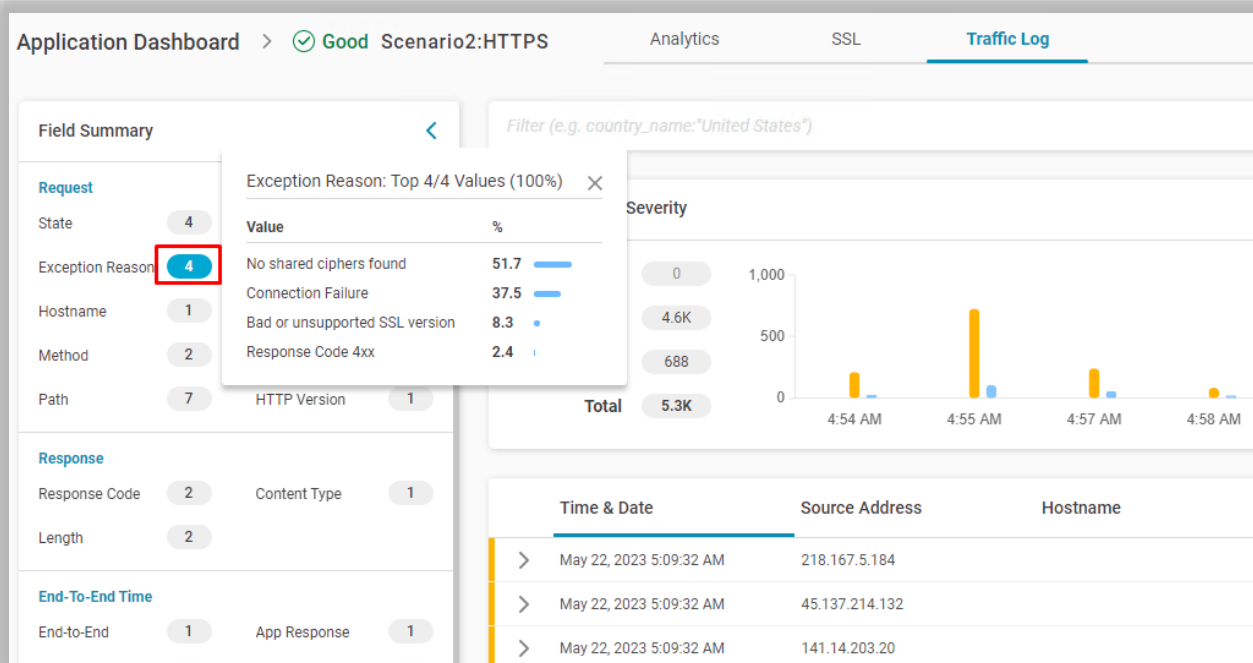
- drill down "Scenario2:HTTPS"



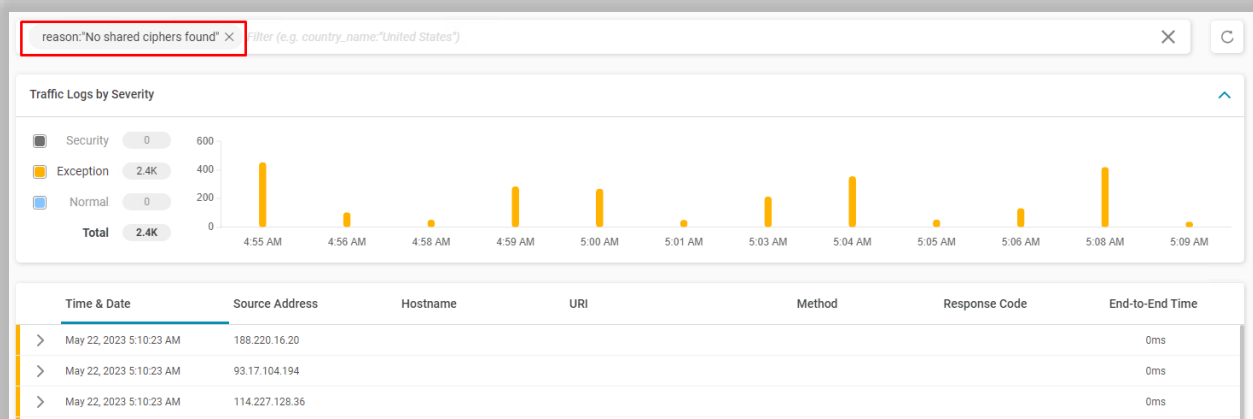
- Use the fields Summary to drilldown to several requests, for example based on "No shared ciphers found".

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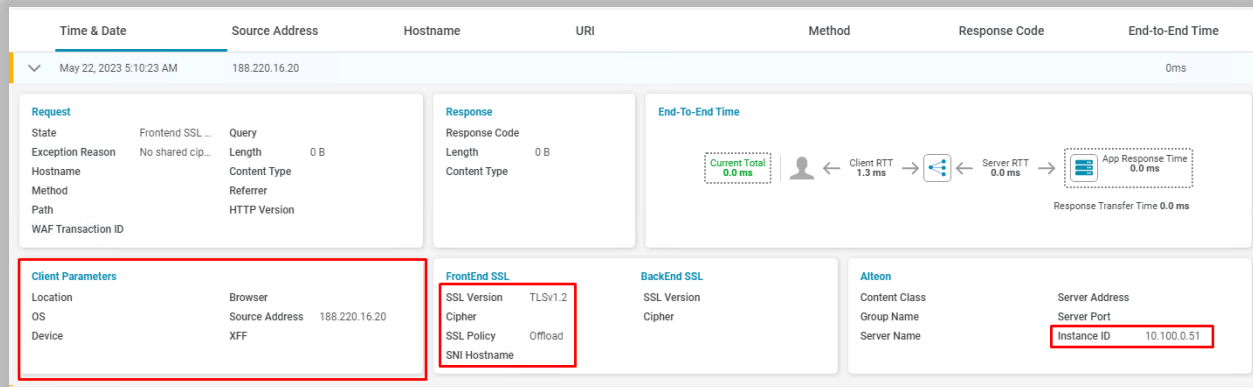
The following window opens:



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- Expend one of the requests to view more information.



Note the client parameters, SSL policy information and instance ID.

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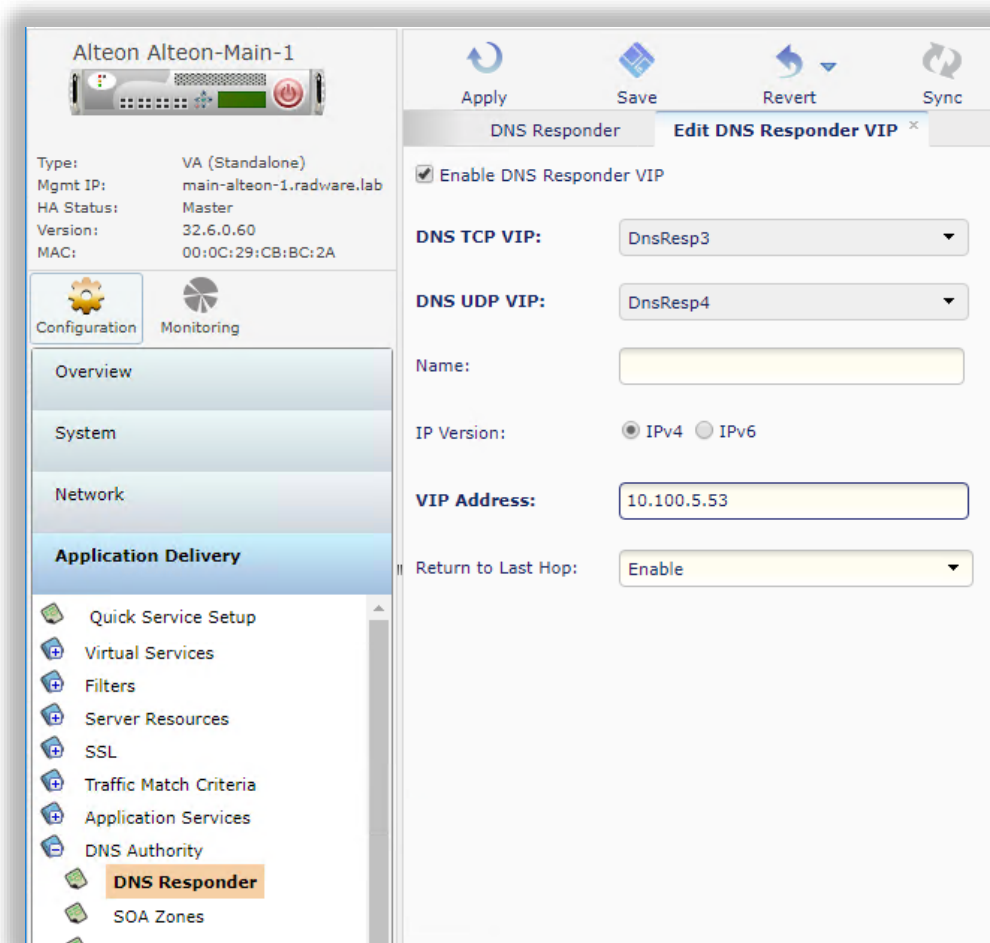
APPENDIX 1 – GSLB CONFIGURATION

General GSLB Configuration

Below you can find the configuration steps needed for the GSLB Labs

- DNS Responder

Virtual service responsible for replying GSLB decision to clients



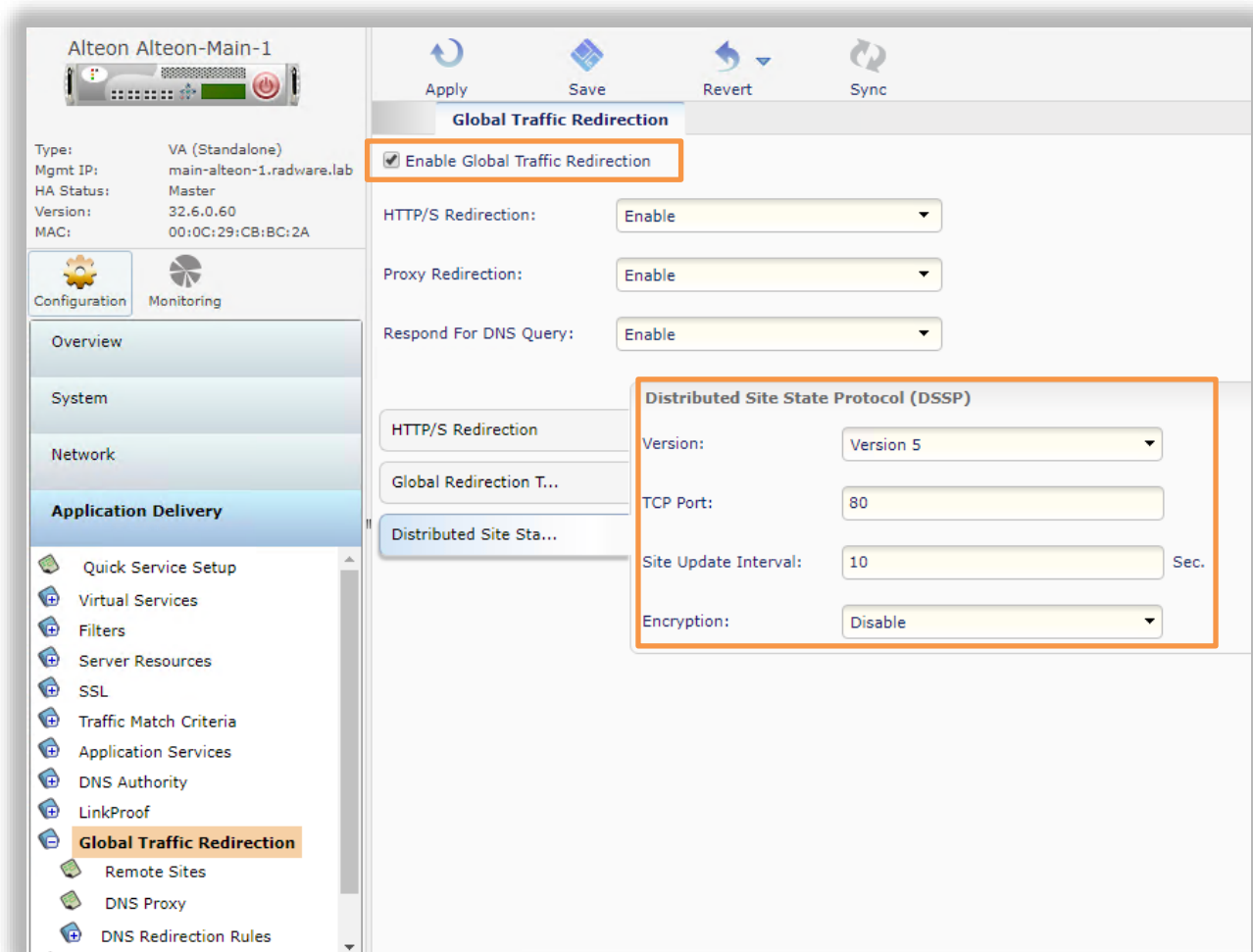
[Back to the Demo](#)

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- GSLB and DSSP Settings

Distributed Site State Protocol (DSSP) is used to exchange metric and statistic information between the GSLB sites. GSLB should be enabled and DSSP settings must be identical on all devices



The screenshot displays the configuration interface for 'Alteon Alteon-Main-1'. The left sidebar shows the navigation menu with 'Global Traffic Redirection' selected under 'Application Delivery'. The main panel is titled 'Global Traffic Redirection' and includes the following settings:

- ☒ Enable Global Traffic Redirection
- HTTP/S Redirection: Enable
- Proxy Redirection: Enable
- Respond For DNS Query: Enable

Below these settings, there is a section for 'Distributed Site State Protocol (DSSP)' with the following configuration:

- Version: Version 5
- TCP Port: 80
- Site Update Interval: 10 Sec.
- Encryption: Disable

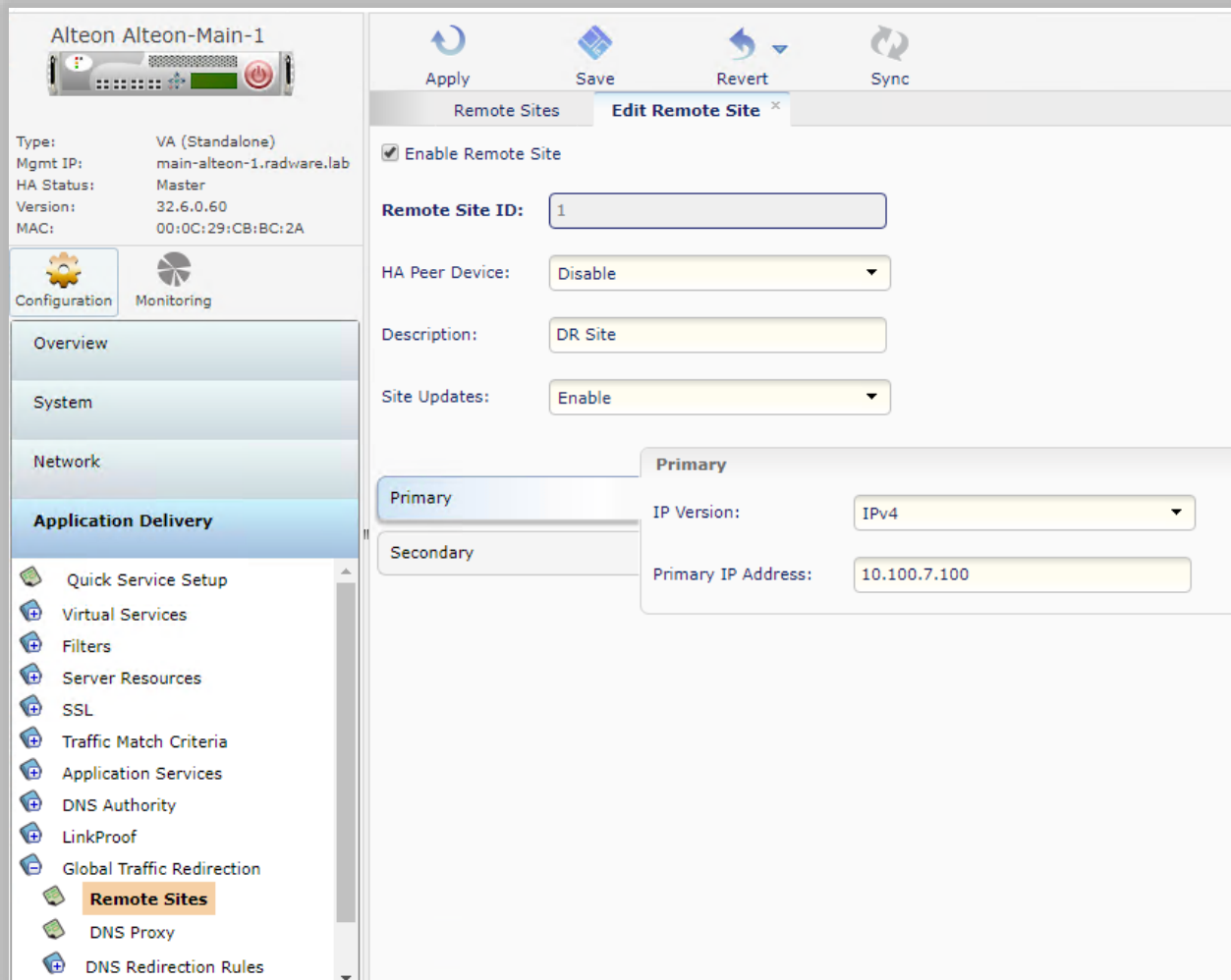
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- Remote site settings

Remote site is the representation of the GSLB in the remote sites



The screenshot displays the configuration interface for 'Alteon Alteon-Main-1'. The left sidebar shows the navigation menu with 'Application Delivery' selected, and 'Remote Sites' highlighted. The main panel shows the 'Edit Remote Site' configuration for Remote Site ID 1. The 'Enable Remote Site' checkbox is checked. The 'HA Peer Device' is set to 'Disable', the 'Description' is 'DR Site', and 'Site Updates' are 'Enable'. The 'Primary' tab is active, showing 'IP Version' as 'IPv4' and 'Primary IP Address' as '10.100.7.100'.

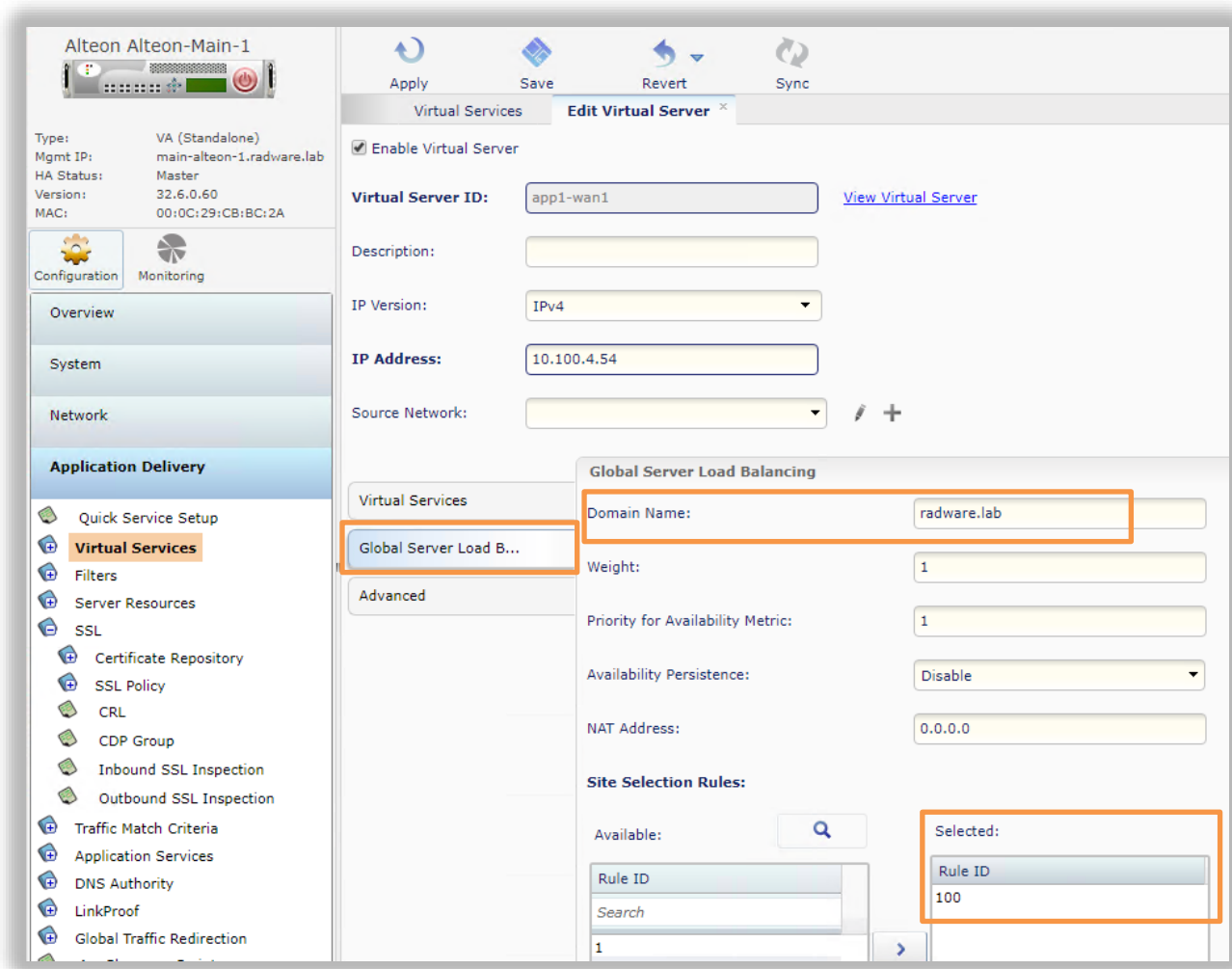
[Back to the Demo](#)

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- Virtual Servers GSLB configuration

Make sure relevant virtual servers have "Domain Name" configured and at least one selected "Site



The screenshot shows the configuration interface for Alteon Alteon-Main-1. The left sidebar contains a navigation menu with options like Overview, System, Network, and Application Delivery. The main content area is titled 'Edit Virtual Server' and includes fields for Virtual Server ID (app1-wan1), Description, IP Version (IPv4), IP Address (10.100.4.54), and Source Network. Below these fields, there are tabs for Virtual Services, Global Server Load B..., and Advanced. The Global Server Load B... tab is selected, showing settings for Domain Name (radware.lab), Weight (1), Priority for Availability Metric (1), Availability Persistence (Disable), and NAT Address (0.0.0.0). Under the Site Selection Rules section, there is a table with columns for Rule ID and a search bar. The table shows one rule with Rule ID 100, which is highlighted in the 'Selected' column.

Selection Rule"

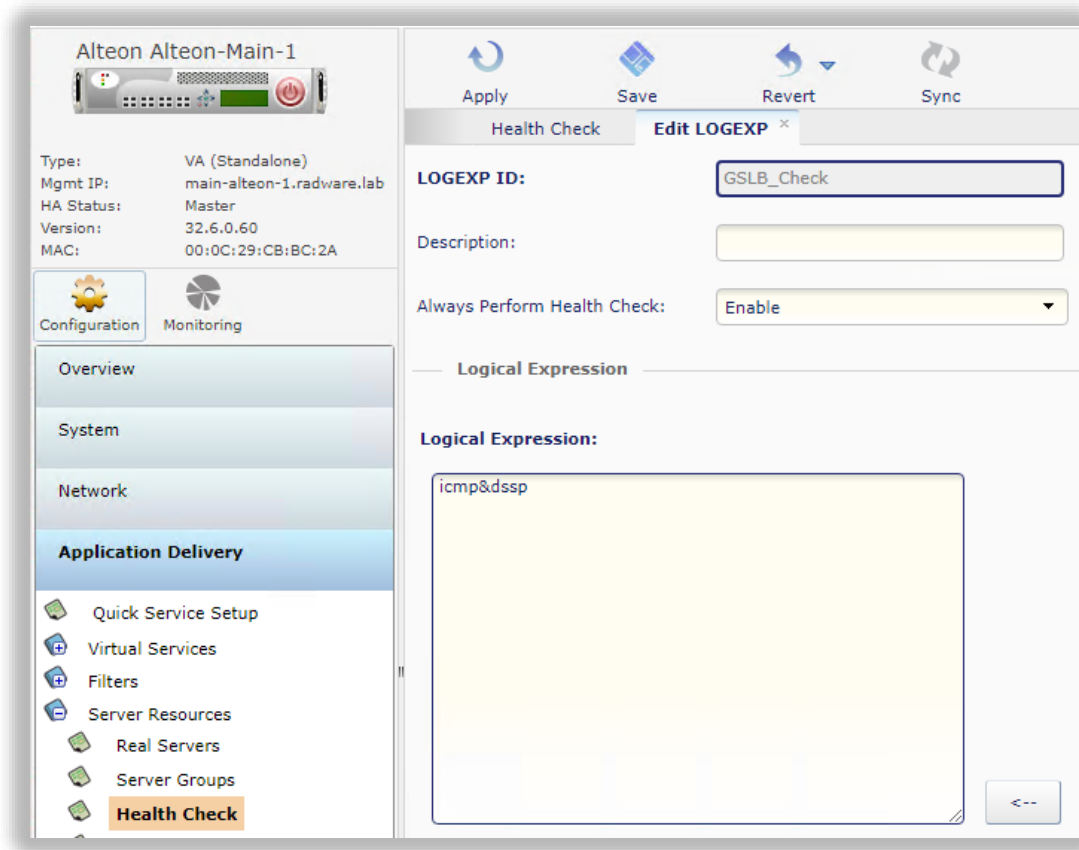
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- GSLB health check

To get awareness of remote sites service status we must use DSSP health check. To get a faster and more accurate reading it is recommended to combine the DSSP with ICMP health check. Create Logical expression health check for the GSLB objects



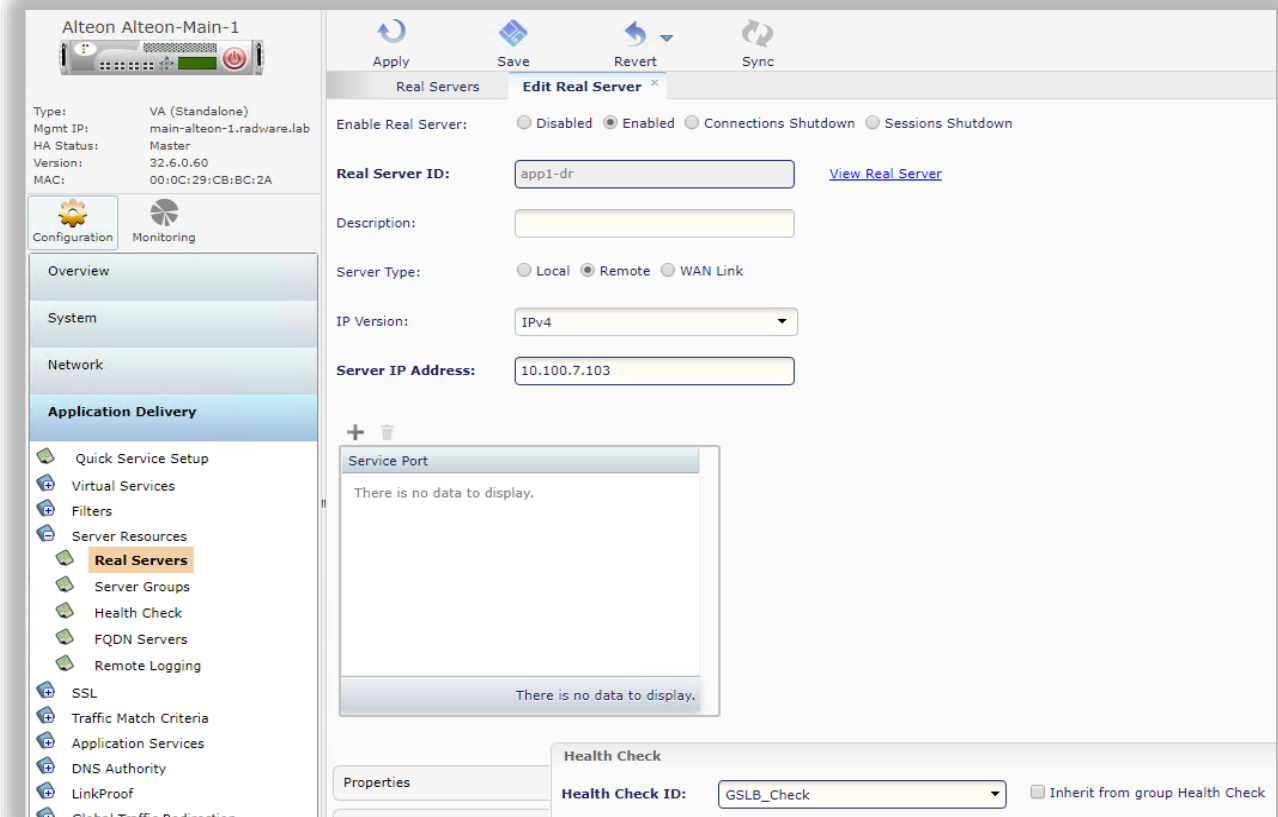
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- Remote Real Server

All relevant opposite site virtual servers should be configured as real servers while the type should be remote and health check should be set either to DSSP or the health check from (1.2)



[Back to the Demo](#)

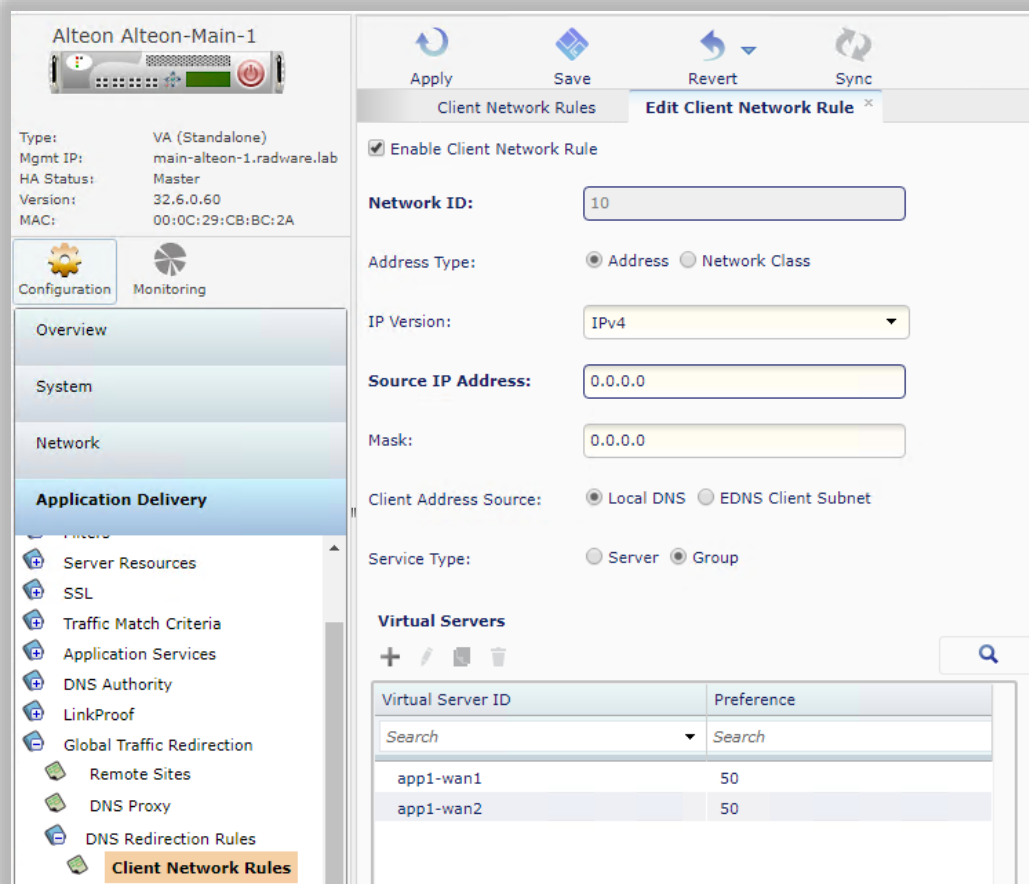
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GSLB Scenario 1 Configuration

- Client Network Rules

Create a network rule for definition of acceptable IP's for GSLB to reply, in the example below Network 10 contains Virtual servers "app1-wan1" and "app1-wan2" and remote real server "app1-dr"



The screenshot shows the configuration interface for Alteon Alton-Main-1. The left sidebar contains a navigation menu with the following items: Overview, System, Network, Application Delivery, and Client Network Rules (highlighted). The main content area is titled "Edit Client Network Rule" and includes the following fields and sections:

- Client Network Rules** tab selected.
- ☒ **Enable Client Network Rule**
- Network ID:** 10
- Address Type:** ☒ Address ☐ Network Class
- IP Version:** IPv4
- Source IP Address:** 0.0.0.0
- Mask:** 0.0.0.0
- Client Address Source:** ☒ Local DNS ☐ EDNS Client Subnet
- Service Type:** ☐ Server ☒ Group
- Virtual Servers** section with a table:

| Virtual Server ID | Preference |
|-------------------|------------|
| app1-wan1 | 50 |
| app1-wan2 | 50 |

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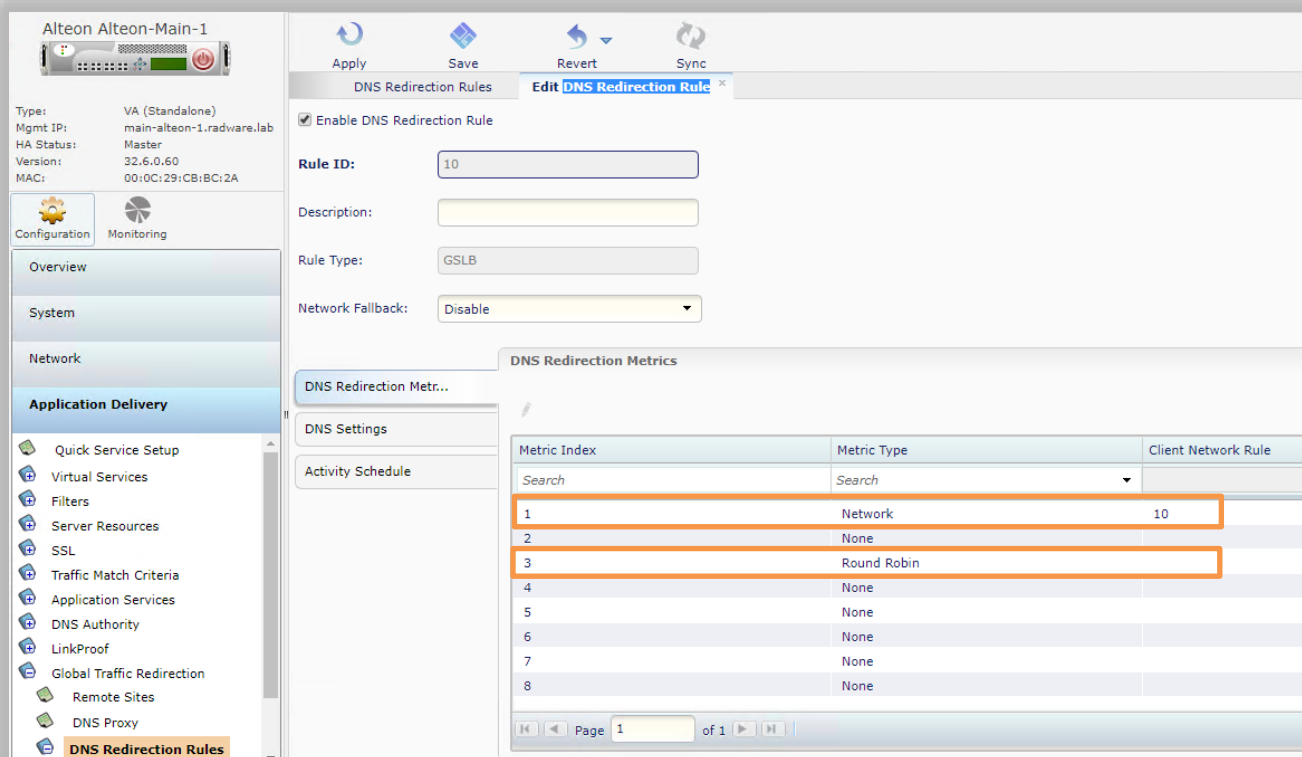
Real Servers

| Real Server ID | Preference |
|----------------|------------|
| Search | Search |
| app1-dr | 100 |

[Back to the Demo](#)

- DNS Redirection Rule - Metrics

Configure the metrics used for this rule, use metric 1 for associating the network rule (2.1) and metrics 3-8 for setting the distribution, in this case Round Robin



Alteon Alteon-Main-1

Type: VA (Standalone)
Mgmt IP: main-alteon-1.radware.lab
HA Status: Master
Version: 32.6.0.60
MAC: 00:0C:29:CB:BC:2A

Configuration Monitoring

Overview
System
Network
Application Delivery

Quick Service Setup
Virtual Services
Filters
Server Resources
SSL
Traffic Match Criteria
Application Services
DNS Authority
LinkProof
Global Traffic Redirection
Remote Sites
DNS Proxy
DNS Redirection Rules

Apply Save Revert Sync

DNS Redirection Rules **Edit DNS Redirection Rule**

☒ Enable DNS Redirection Rule

Rule ID: 10

Description:

Rule Type: GSLB

Network Fallback: Disable

DNS Redirection Metrics

DNS Redirection Metr...

DNS Settings
Activity Schedule

| Metric Index | Metric Type | Client Network Rule |
|--------------|-------------|---------------------|
| Search | Search | |
| 1 | Network | 10 |
| 2 | None | |
| 3 | Round Robin | |
| 4 | None | |
| 5 | None | |
| 6 | None | |
| 7 | None | |
| 8 | None | |

Page 1 of 1

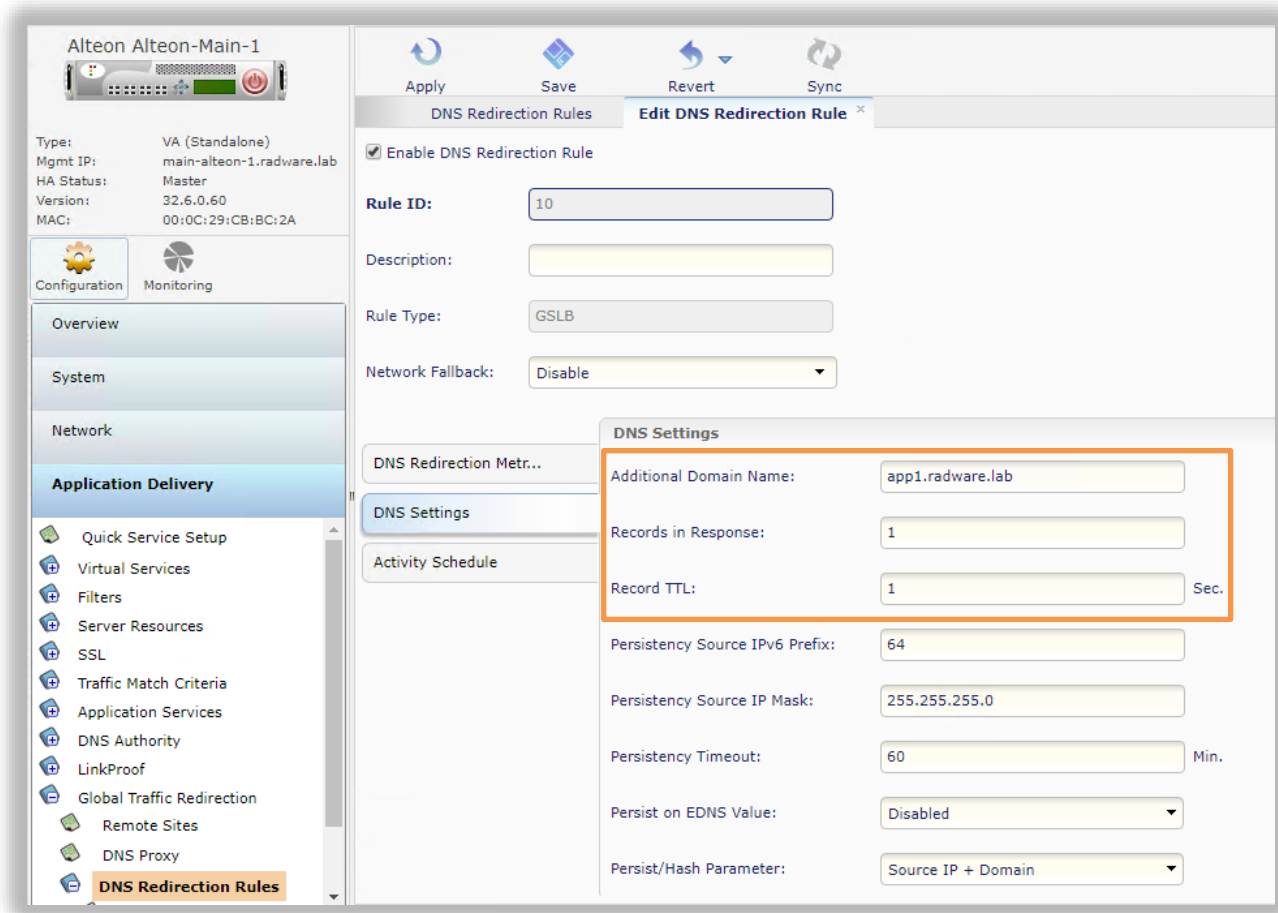
[Back to the Demo](#)

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- DNS Redirection Rule - DNS Settings

Configure the hostname as the Additional Domain Name, set the TTL to 1 and adjust how many records we need per response



The screenshot displays the 'Edit DNS Redirection Rule' configuration page in the Radware Alteon GUI. The left sidebar shows the navigation menu with 'DNS Redirection Rules' selected. The main panel shows the rule configuration for Rule ID 10. The 'DNS Settings' section is highlighted with an orange box, containing the following fields:

- Additional Domain Name:** app1.radware.lab
- Records in Response:** 1
- Record TTL:** 1 Sec.
- Persistency Source IPv6 Prefix:** 64
- Persistency Source IP Mask:** 255.255.255.0
- Persistency Timeout:** 60 Min.
- Persist on EDNS Value:** Disabled
- Persist/Hash Parameter:** Source IP + Domain

[Back to the Demo](#)

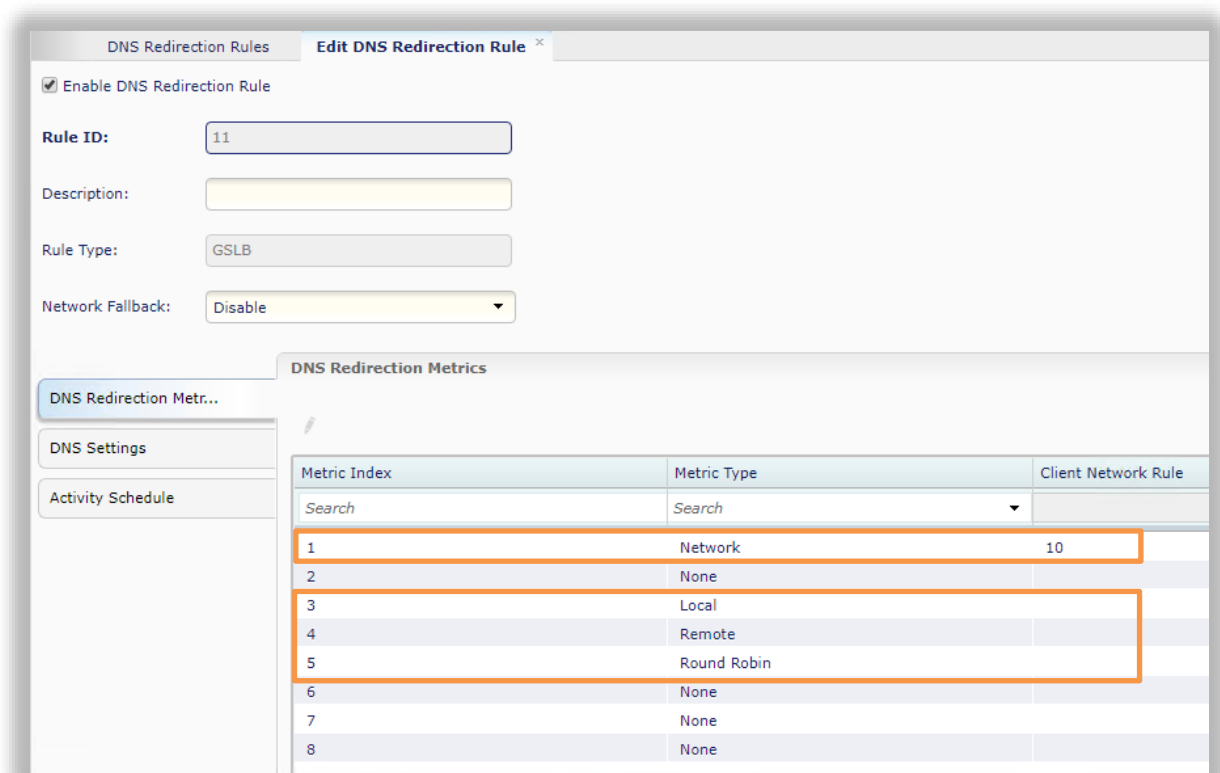
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GSLB Scenario 2 Configuration

- DNS Redirection Rule

Use "Local" metric to first prefer the local VIPs, then add "Remote" and finally "round robin"



DNS Redirection Rules **Edit DNS Redirection Rule** x

☒ Enable DNS Redirection Rule

Rule ID: 11

Description:

Rule Type: GSLB

Network Fallback: Disable

DNS Redirection Metrics

DNS Redirection Metr...

DNS Settings

Activity Schedule

| Metric Index | Metric Type | Client Network Rule |
|--------------|-------------|---------------------|
| Search | Search | |
| 1 | Network | 10 |
| 2 | None | |
| 3 | Local | |
| 4 | Remote | |
| 5 | Round Robin | |
| 6 | None | |
| 7 | None | |
| 8 | None | |

GSLB will check the rules top to bottom until it gets enough IP's (according to the DNS settings).

1.1. DNS Redirection Rule

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Configure the hostname as the Additional Domain Name, set the TTL to 1 and adjust how many records we need per response



| DNS Settings | |
|-------------------------|-----------------------------------------------------------------------|
| DNS Redirection Metr... | Additional Domain Name: <input type="text" value="app2.radware.lab"/> |
| DNS Settings | Records in Response: <input type="text" value="2"/> |
| Activity Schedule | Record TTL: <input type="text" value="1"/> Sec. |

[Back to the Demo](#)

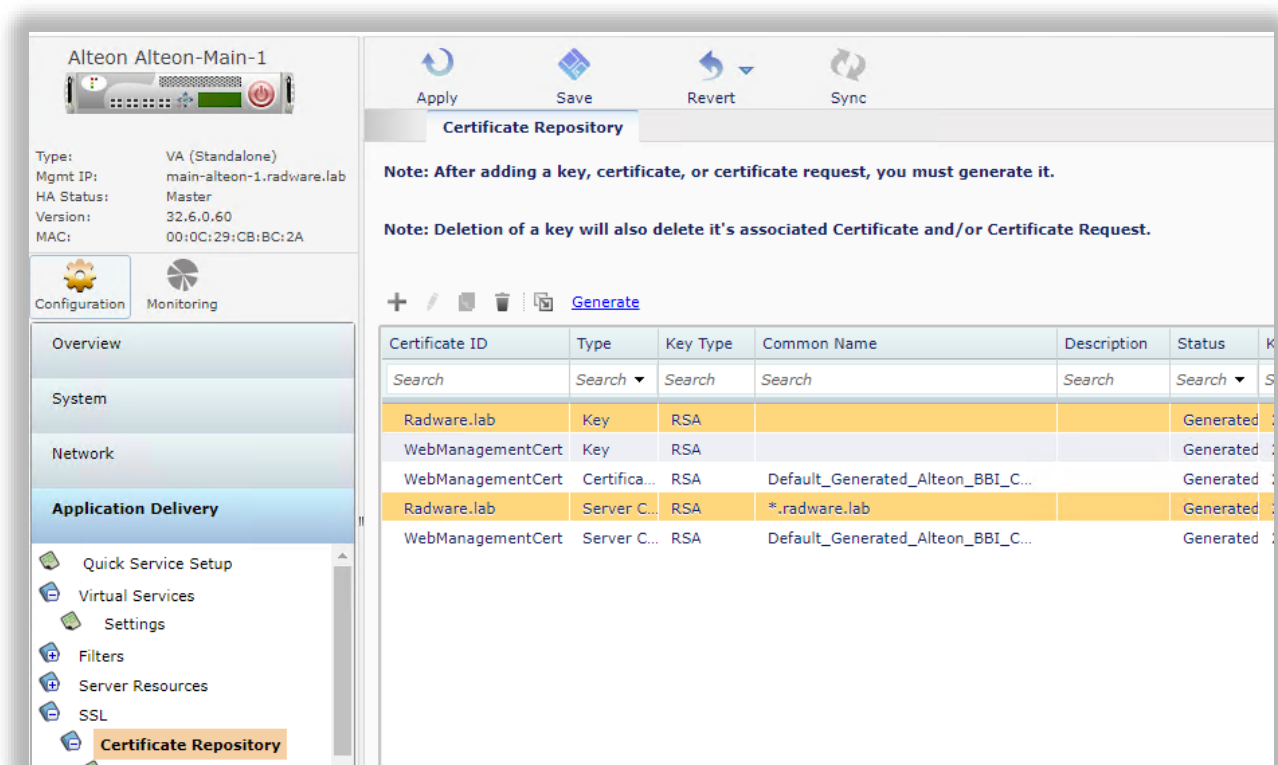
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APPENDIX 2 – SSL OFFLOADING AND LAYER 7 MODIFICATION CONFIGURATION

SSL Offload

- SSL Certificate + Key for performing the SSL/TLS negotiation.



The screenshot displays the Alteon Management Console interface for 'Alteon-Alteon-Main-1'. The left sidebar shows the navigation menu with 'Certificate Repository' selected under the 'Application Delivery' section. The main content area shows the 'Certificate Repository' configuration page. At the top, there are buttons for 'Apply', 'Save', 'Revert', and 'Sync'. Below these, there are two notes: 'Note: After adding a key, certificate, or certificate request, you must generate it.' and 'Note: Deletion of a key will also delete its associated Certificate and/or Certificate Request.' A '+ Generate' button is visible. The main table lists the following certificates:

| Certificate ID | Type | Key Type | Common Name | Description | Status |
|-------------------|--------------|----------|-----------------------------------|-------------|-----------|
| Radware.lab | Key | RSA | | | Generated |
| WebManagementCert | Key | RSA | | | Generated |
| WebManagementCert | Certifica... | RSA | Default_Generated_Alteon_BBI_C... | | Generated |
| Radware.lab | Server C... | RSA | *.radware.lab | | Generated |
| WebManagementCert | Server C... | RSA | Default_Generated_Alteon_BBI_C... | | Generated |

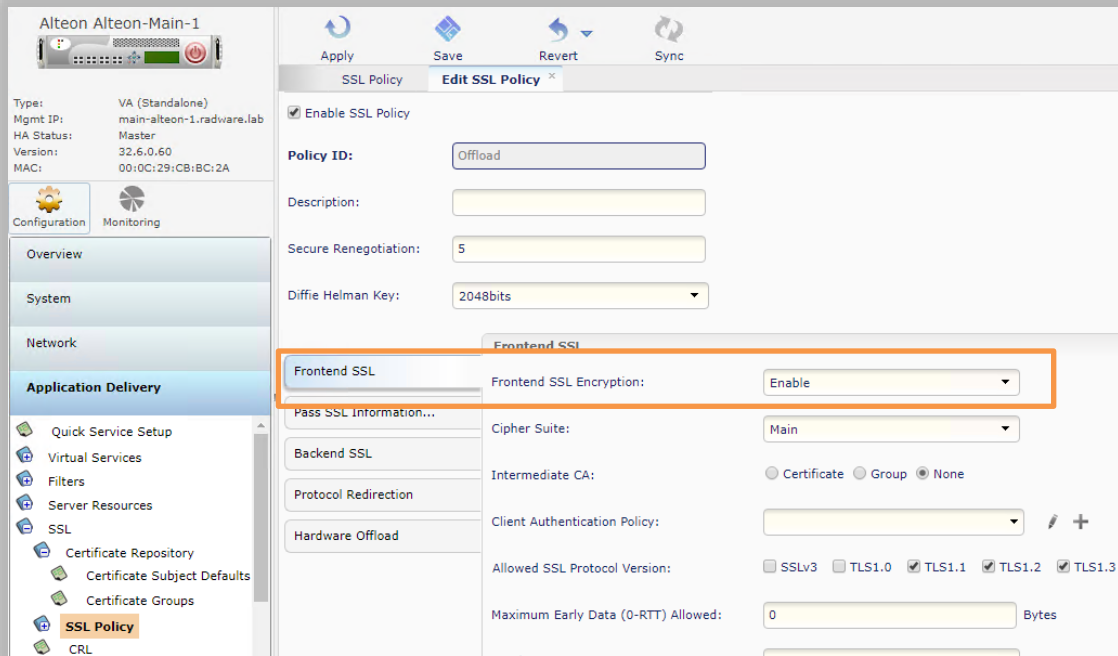
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- SSL policy

Frontend SSL encryption should be enabled, and Backend SSL disabled



Alteon Alteon-Main-1

Type: VA (Standalone)
Mgmt IP: main-alteon-1.radware.lab
HA Status: Master
Version: 32.6.0.60
MAC: 00:0C:29:CB:BC:2A

Configuration Monitoring

Overview
System
Network
Application Delivery

Quick Service Setup
Virtual Services
Filters
Server Resources
SSL
Certificate Repository
Certificate Subject Defaults
Certificate Groups
SSL Policy
CRL

Apply Save Revert Sync

SSL Policy Edit SSL Policy

☒ Enable SSL Policy

Policy ID: Offload

Description:

Secure Renegotiation: 5

Diffie Helman Key: 2048bits

Frontend SSL

Frontend SSL Encryption: Enable

Pass SSL Information...

Cipher Suite: Main

Backend SSL

Intermediate CA: Certificate Group None

Client Authentication Policy:

Allowed SSL Protocol Version: ☐ SSLv3 ☐ TLS1.0 ☒ TLS1.1 ☒ TLS1.2 ☒ TLS1.3

Maximum Early Data (0-RTT) Allowed: 0 Bytes

☒ Enable SSL Policy

Policy ID: Offload

Description:

Secure Renegotiation: 5

Diffie Helman Key: 2048bits

Frontend SSL

Pass SSL Information...

Backend SSL

Protocol Redirection

Hardware Offload

Backend SSL

Backend SSL Encryption: Disable

Include SNI: Disable

Client Certificate:

Server Authentication Policy:

[Certificate Repository](#)

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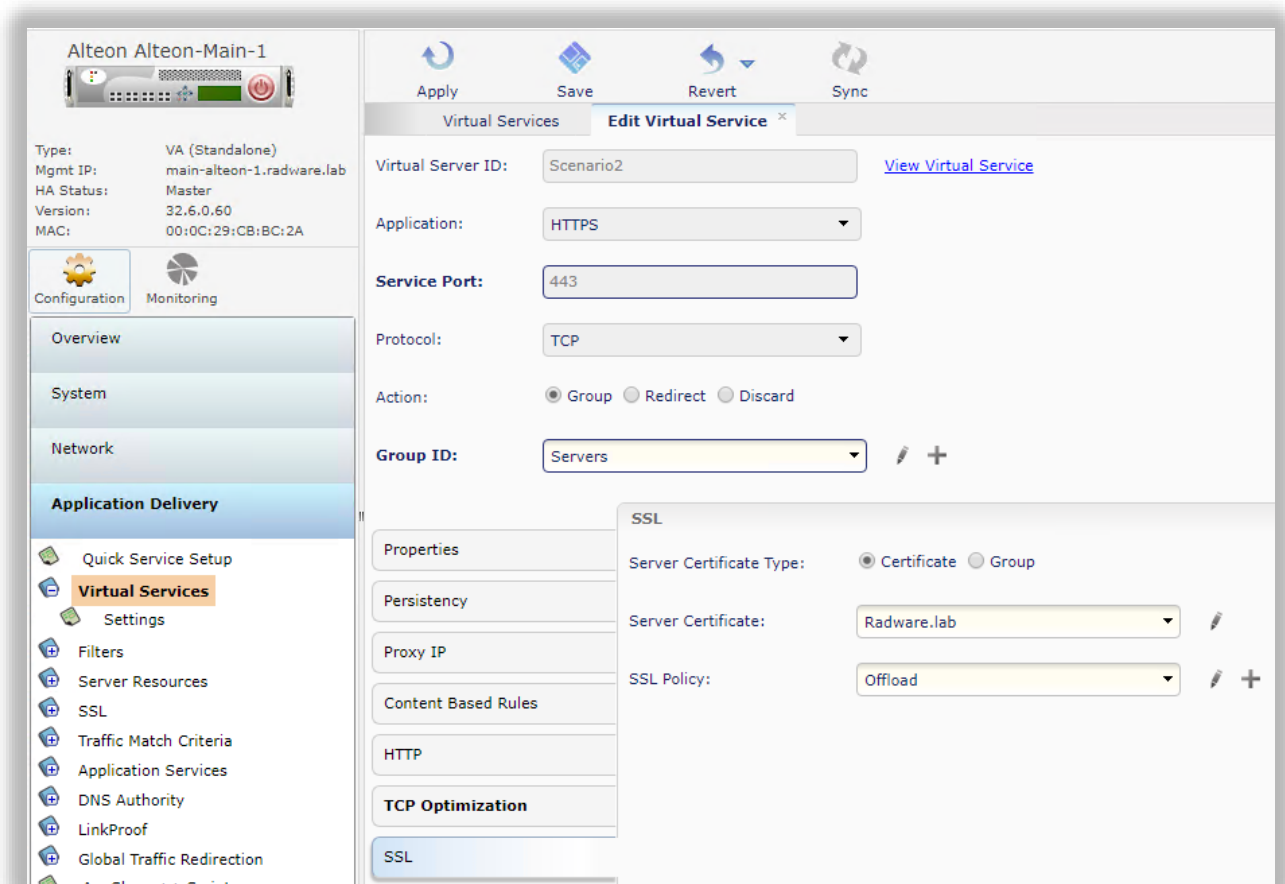
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Virtual Service

The virtual service should be configured with appropriate service port (for HTTPS) and real service port (for HTTP), relevant group and assigned with SSL certificate and SSL policy.



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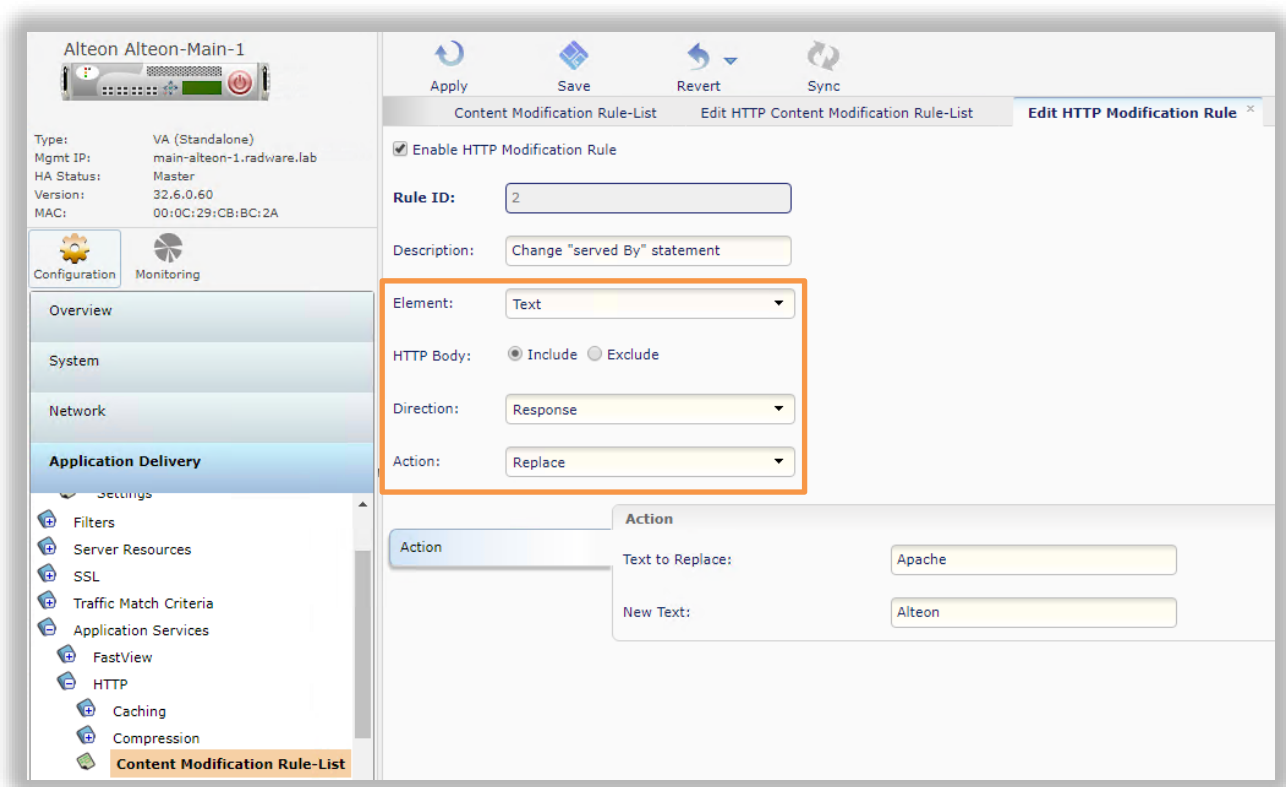
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HTTP Body Modification

Please note: for HTTP body modification to function, Alteon must be able to "understand" the HTTP payload, meaning if the service is HTTPS, need to perform SSL offload or SSL Termination, in case the traffic is compressed need to perform compression.

- HTTP Modification Rule

HTTP modification rule list should contain a rule with the following characteristics - perform text modification, include the HTTP body, direction set to response and action is "Replace".



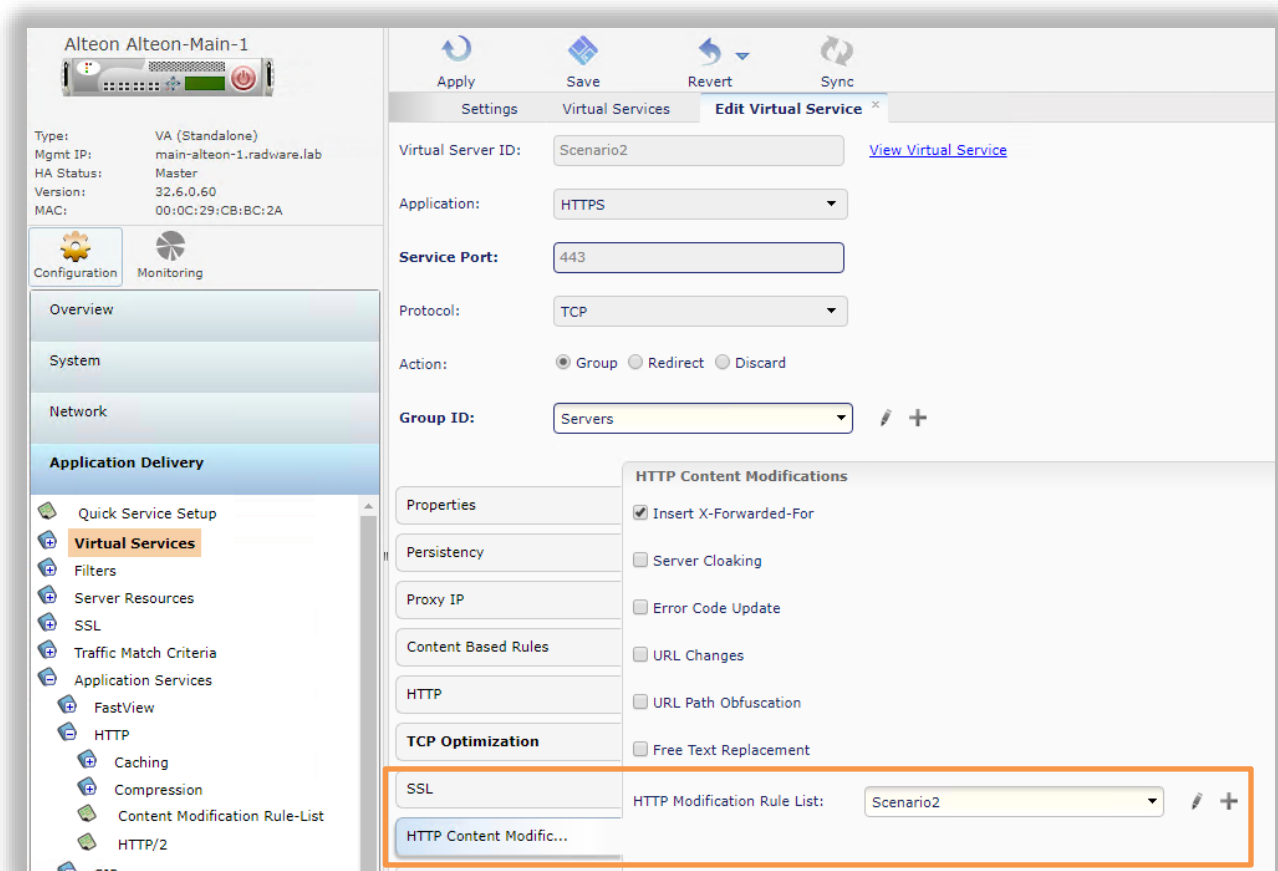
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- Virtual service

HTTP modification list should be assigned to the virtual service



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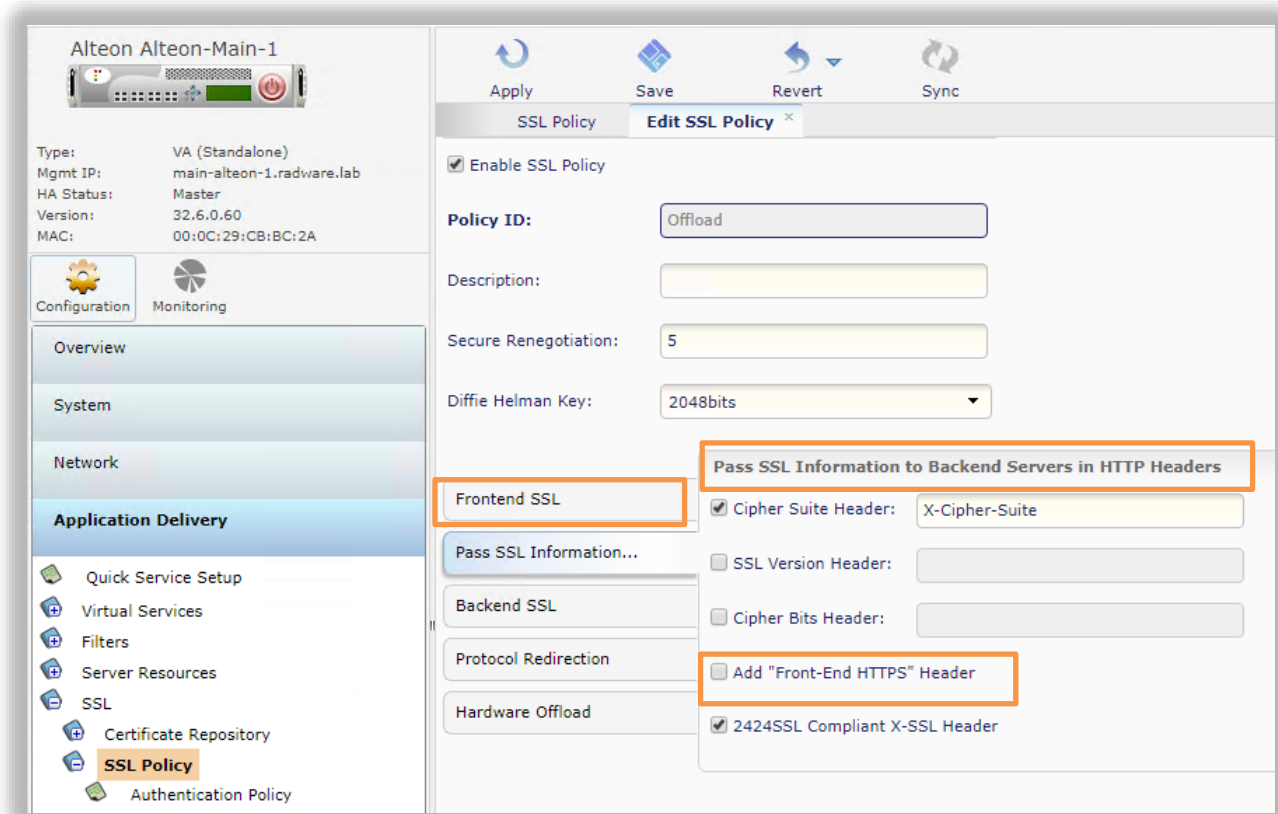
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HTTP Header Modification

- SSL Policy HTTPS headers

Cipher suite header and X-SSL header as part of the "Pass SSL Information to Backend Servers in HTTP Headers" section of the SSL Policy should be checked



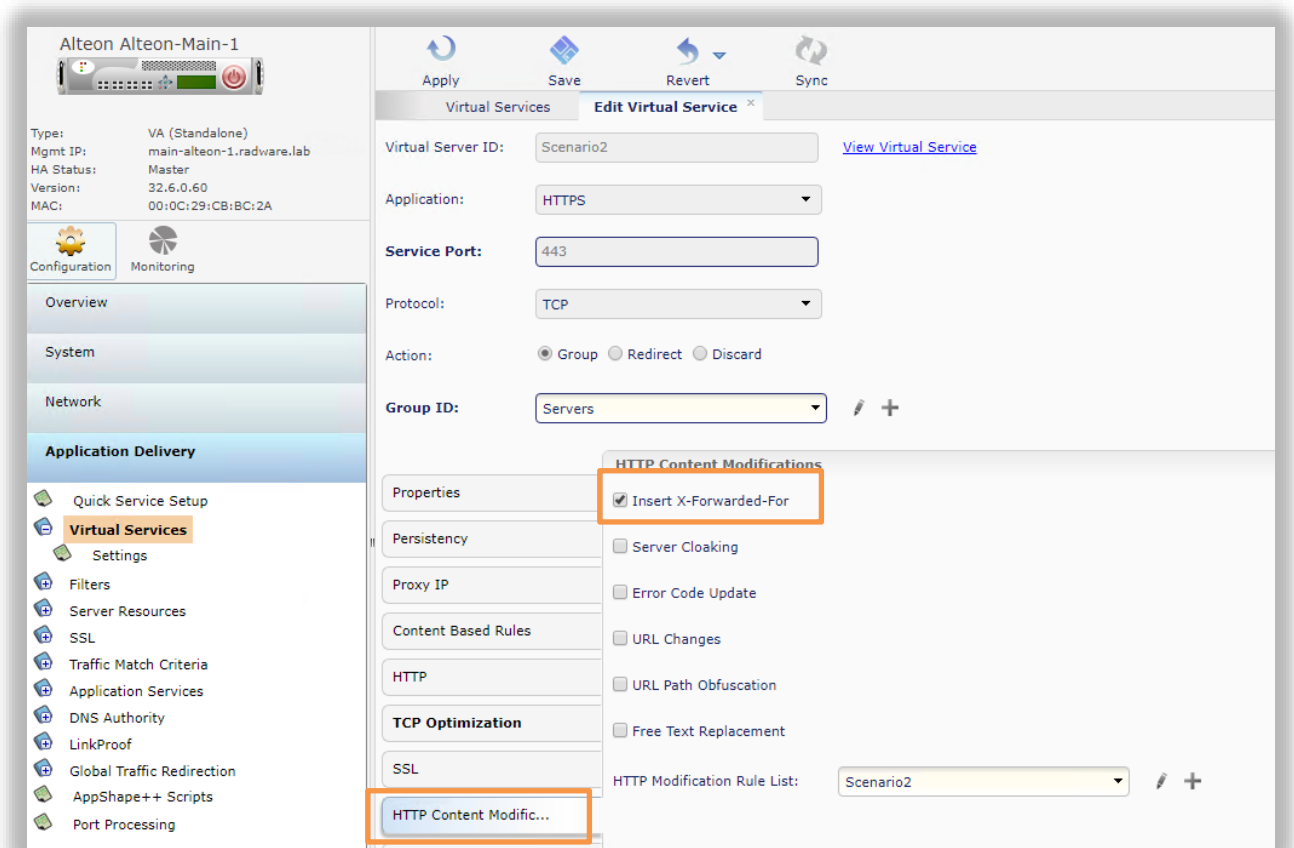
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- Virtual Service

X-Forwarded-For Header injection as part of the HTTP Content Modifications of the Virtual server should be marked



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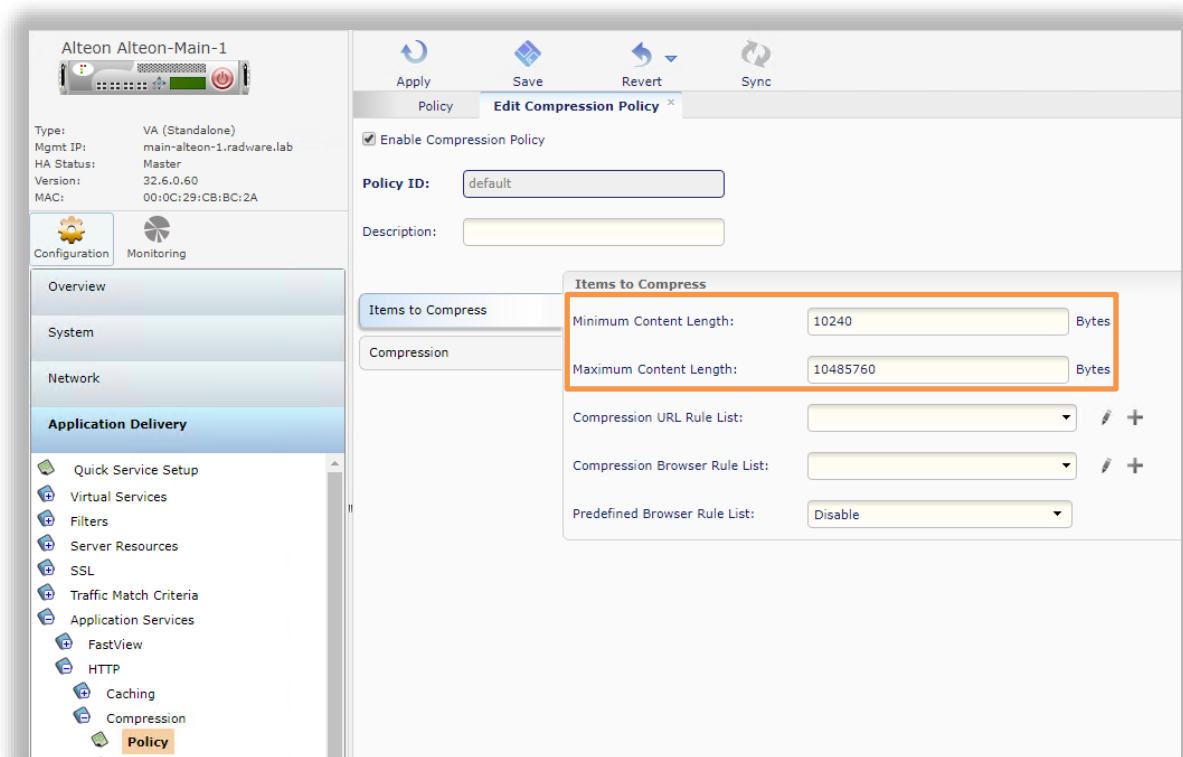
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HTTP Compression Offload

- Compression policy

Create a new compression policy, if needed adjust minimum\maximum content length (for this demo default values are enough)



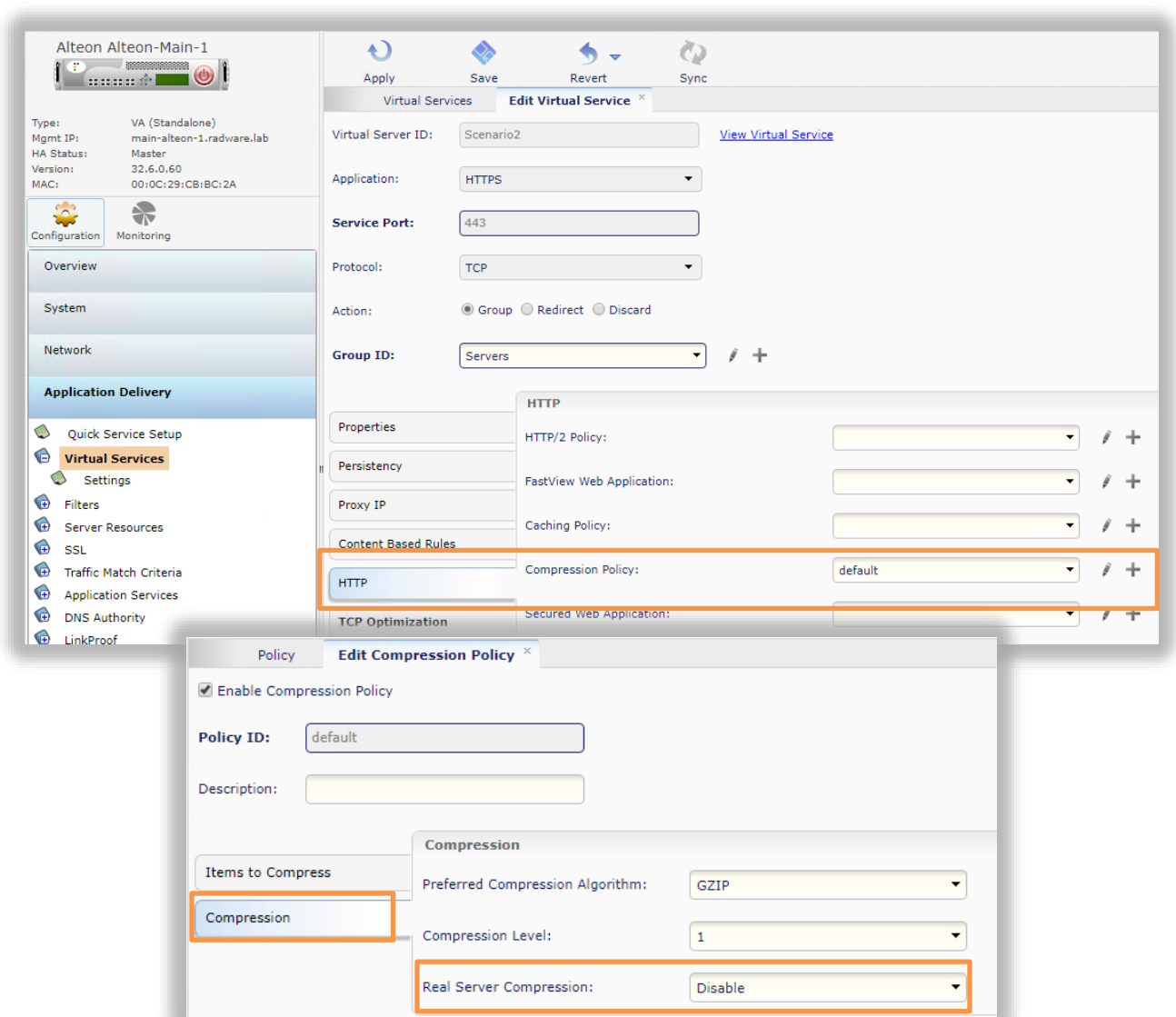
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And make sure "Real Server Compression" as part of the compression section is disabled.

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- Virtual Server



The compression policy should be assigned to the Virtual server

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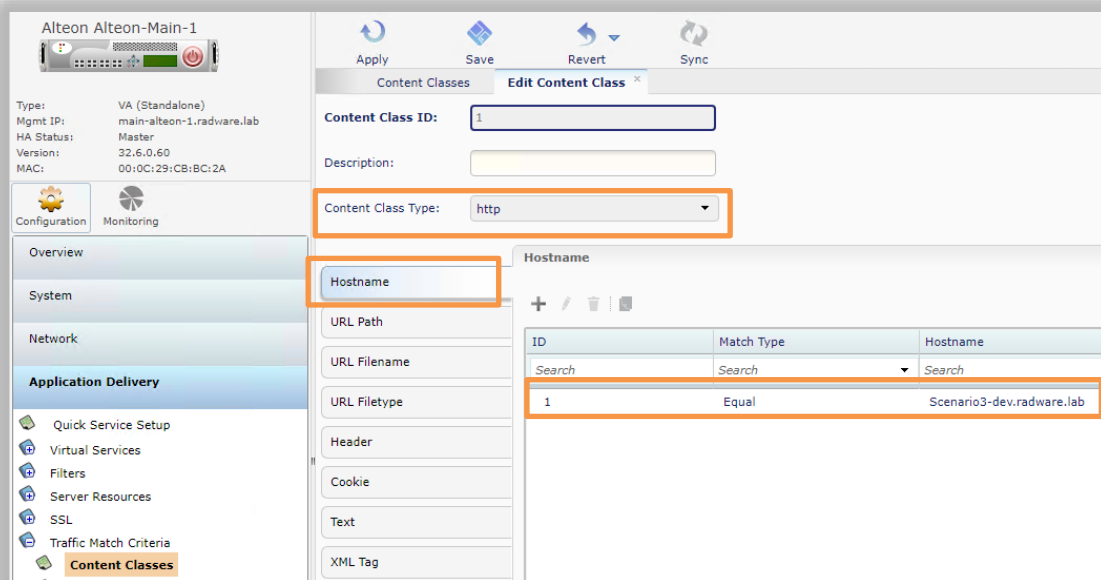
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APPENDIX 3 – CONTENT BASED LB

HTTP Content Based Rules

- Content Class

Configure match criteria using HTTP type content class, in this example match based exact match of the hostname

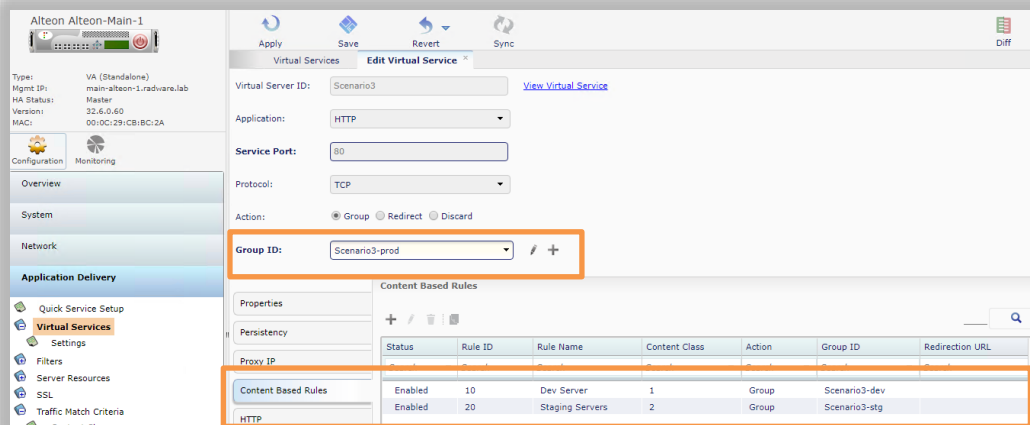


- Virtual Service

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Associate the content class to a content rule with "group" as the action, note the group associated to the service is the default action (if no rule is matched).



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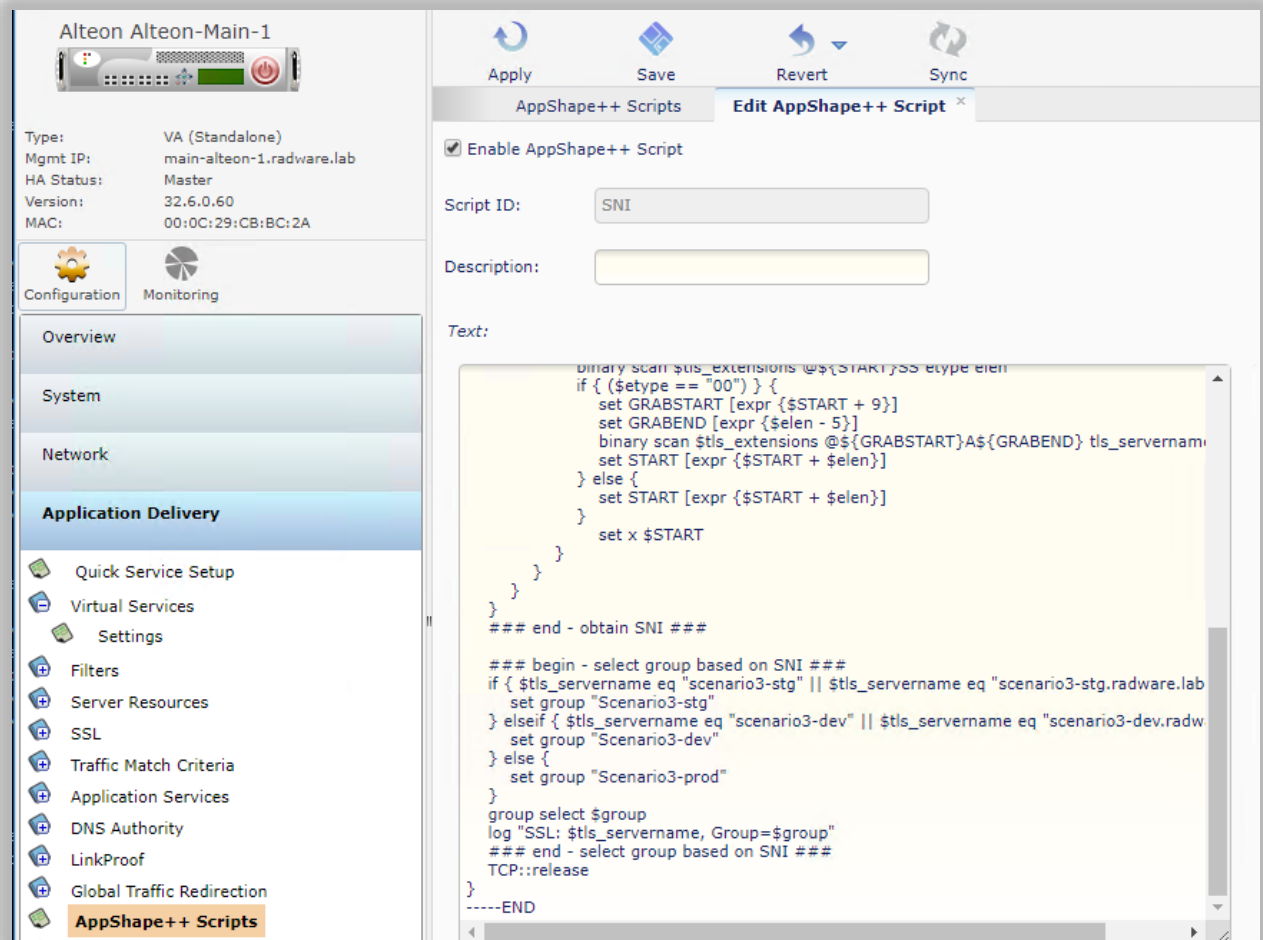
SNI (SSL/TLS) Based rules

Importing a script for parsing the SSL/TLS and selecting the group based on the SNI

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The script can be found here:



https://support.radware.com/app/answers/answer_view/a_id/21507/loc/en_US

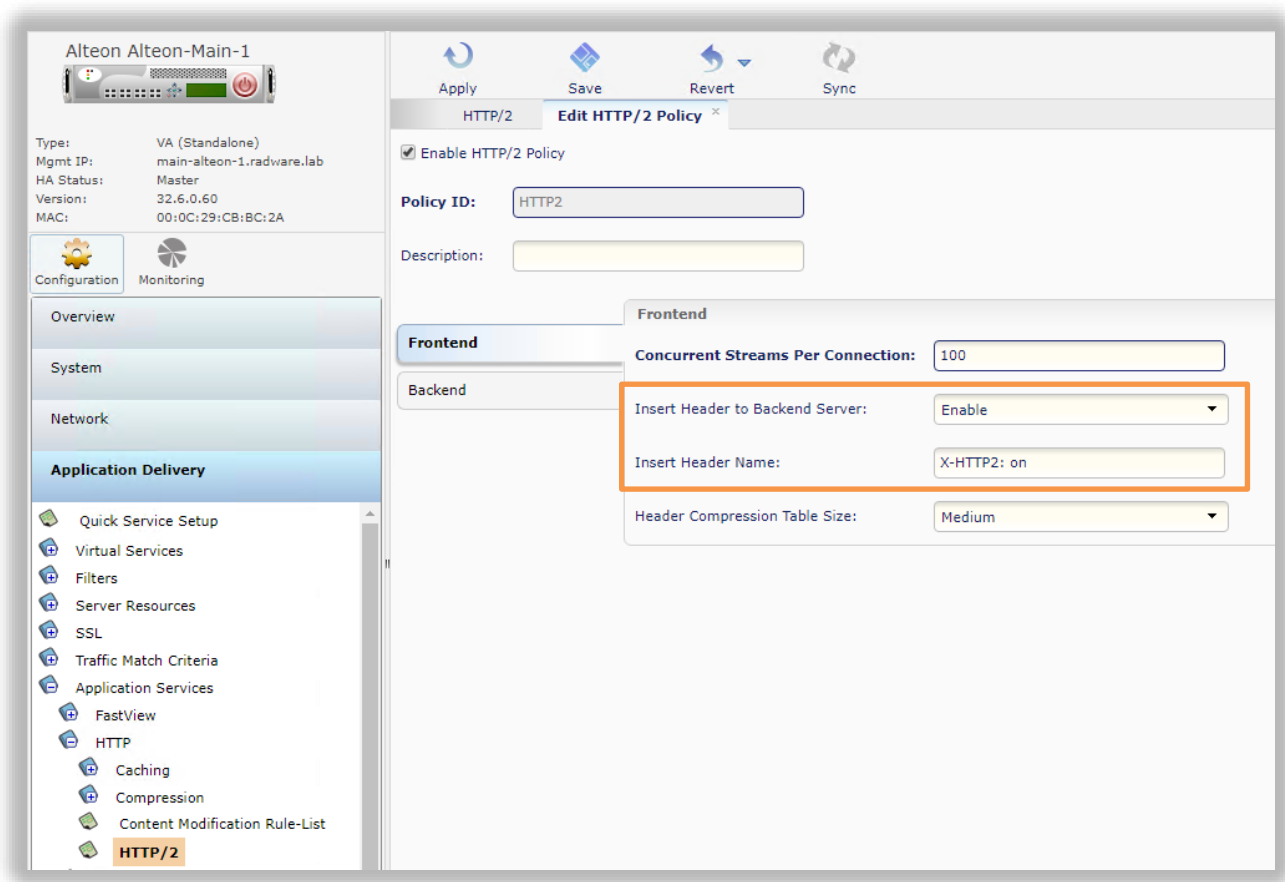
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APPENDIX 4 – HTTP/2.0 GW

Creating an HTTP2 policy, enable Header insertion for notifying the server, rest of the setting can remain on their default values. And assign the policy to the virtual service



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