radware

Alteon
34.x

Alteon Level 1 Lab Manual Initial Setup

Table of Contents

Introduction To Lab

The Alteon Level 1 Training Lab comprises of several activity flows that you will need to perform while reviewing the online course. It covers basic configurations and troubleshooting in Alteon.
Use the online lab together with the manuals to perform lab activities.

For technical assistance, please contact Radware Virtual Lab at RadwareVirtualLab@radware.com.

Icons in this document:


How to perform an activity using CLI


How to perform an activity using Alteon web UI / Cyber Controller interface (Cyber Controller)

Lab Environment

This lab consists of:

- A Remote Management PC
- Two Alteon VA
- Two Web Server
- Cyber Controller

Required Tools & Equipment

Local Workstation (Desktop or Laptop)	Capable of a Web-Browser to access remote lab OS MS-Windows, MAC-OS or Linux
Tablet (IOS or Android)	(Optional) For accessing documents on PDF files instead of using the ones on your local workstation

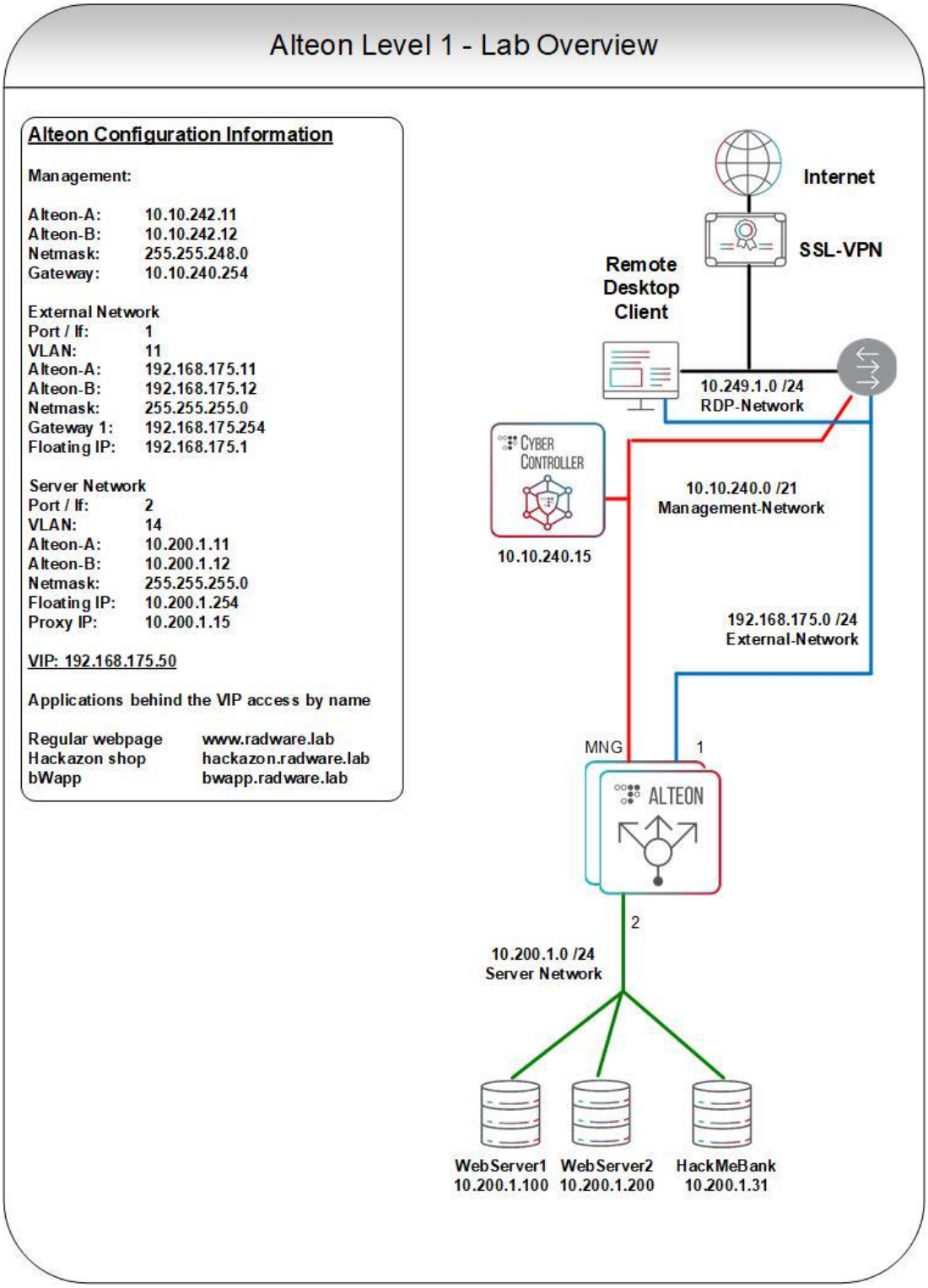
Access this lab using the URL assigned to your class.
Note that the lab uses SSL VPN; make sure that your organization allows access to the lab environment.
Connect and use assigned credentials.
Your trainer or lab administrator will provide this info before you start.

All devices are ready for you to perform the hands-on.

.
The web servers and Team-PC has been conigured and set up.

a. Review lab topology
b. For ease, print the topology as a reference.

Lab Topology



Virtual Lab Setup	
(1)	Alteon VA (Active = A)
(1)	Alteon VA (Backup = B)
(1)	Remote Client a. Use Application Menu for tools & utilities b. Use desktop shortcuts for console and SSH CLI c. Use TFTP and preconfigured syslog server
(1)	Cyber Controller VA
(2)	Web Servers (Web1, Web2)

Lab Preparations

Prepare your local computer.

IMPORTANT: If you haven't already been assigned an Alteon virtual Lab, email us at radwarevirtuallab@radware.com

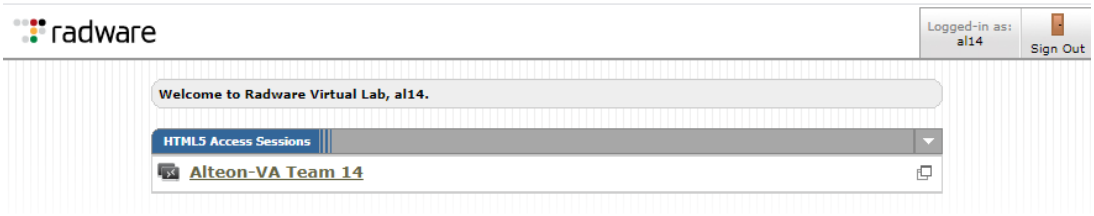
Lab Activities

Here is a summary of what you'll be completing in this lab:

1. Connect to lab using SSL VPN
2. Connect to lab devices
    a. Connect to Alteon console port
    b. Connect to Alteon management port
    c. Connect to Alteon's web-based management (Web-UI)
    d. Connect to Cyber Controller

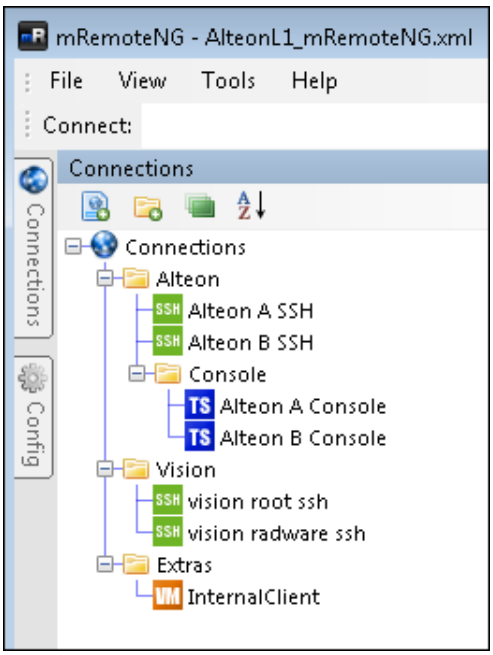
Connect to Lab Devices

1. Connect to SSL VPN (or use the information in the lab assignment email)
    a. Open your browser
    b. Enter your global URL
        i. Americas Lab = https://njvpn.radware.net/
        ii. Europe Lab = https://devpn.radware.net/
    c. Press ENTER
    d. Login to SSL VPN Gateway
        i. Username: provided by the training team
        ii. Password: provided by the training team
        iii. Click “Login”



2. Click on the “Alteon-VATeam XX” link to open RDP Client (XX is the team number you were assigned. New tab will open with Remote Dektop client.
   If the RDP doesn’t open , contact your instructor or the lab administrator.
   If your screen is locked and you are prompted with Windows login, use *radware/radware* for *username/password*.

3. Connect to **Alteon A**’s console port (via Command-line interface)



If you open the mRemoteNG application > Connections. You see on the left predefined connections to all machines from the lab. All logins are preconfigured.

They are structured in different folders:

Alteon:

- Alteon A SSH SSH Connection first Alteon vm
- Alteon B SSH SSH Connection second Alteon vm

Console

- Alteon A Console "Serial" Connection first Alteon vm
- Alteon B Console "Serial" Connection second Alteon vm

Cyber Controller

- SSH access to Cyber Controller as radware and root user

Extras

- VNC connection to Kali client at Internal-Net for WAF testing

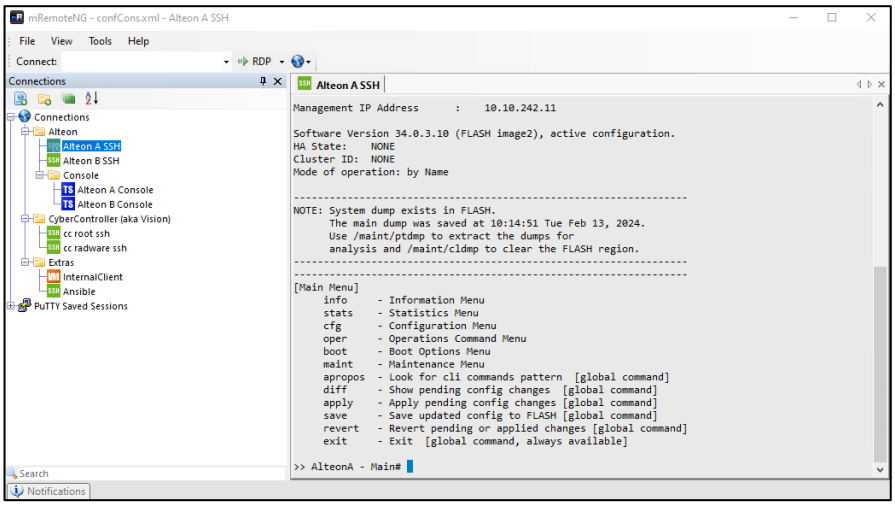
In the Radware virtual lab, console port shortcut is already created.

a. Double click on the "Alteon A Console" icon to open console and press Connect using preset login credentials. (User name: student password: radware1!)
b. If console open hit left mouse key to select and release by pressing Ctrl and Alt together.
c. Login into Alteon with username: **admin** and password: **radware**

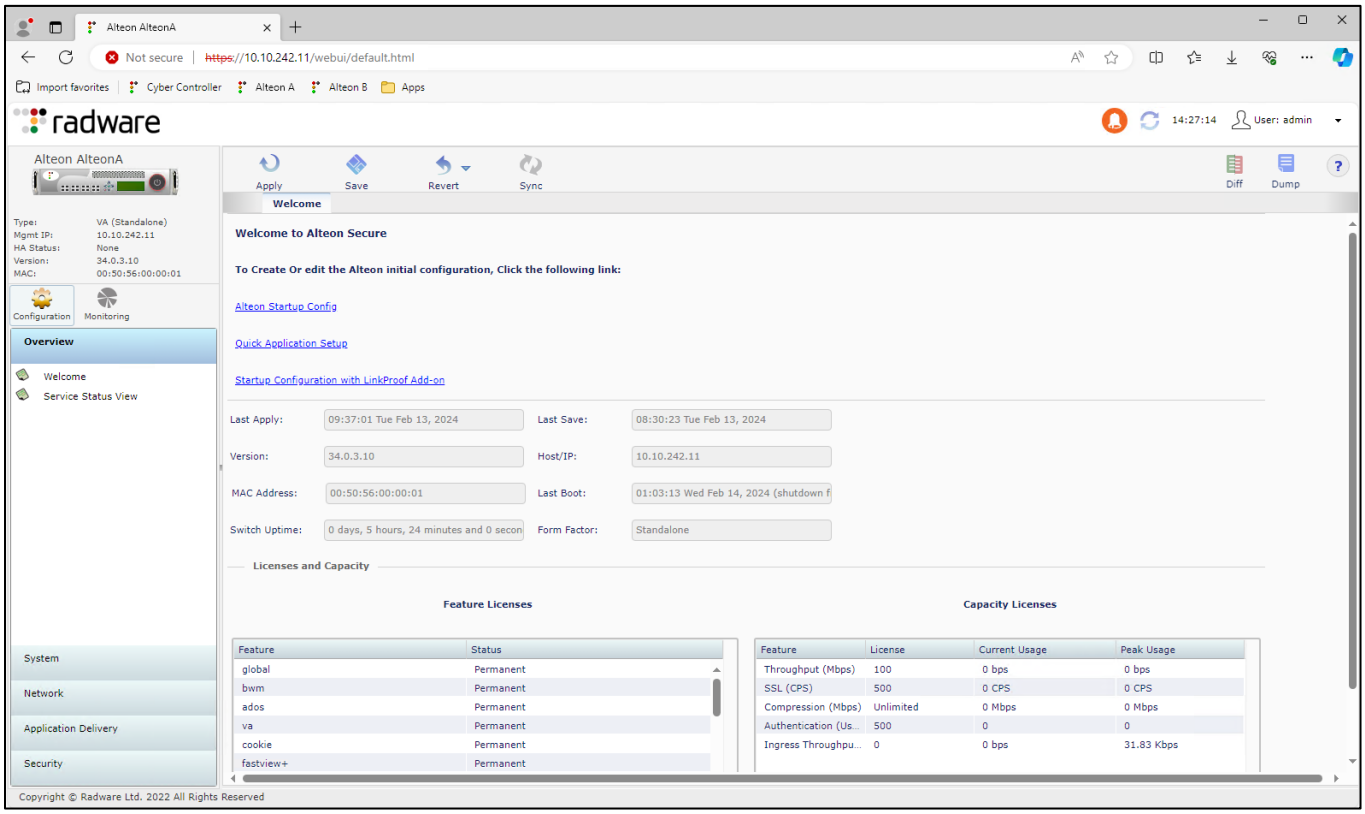
4. Connect to **Alteon A** management port (CLI)
IMPORTANT: The management port is used exclusively to manage the Alteon through an out-of-band Ethernet connection and through web-based management.

While it is not recommended, management of the Alteon VA is also possible through inband connections on all data ports via Telnet, SSH, or HTTPS.

a. Double click on the "Alteon A SSH" icon to open SSH. Login credential are a same as for console.



5. Connect to **Alteon A**'s Web-GUI using a browser within the Remote Desktop Client. Edge is already preconfigured with a shortcut to Alteon-A
   URL: https://10.10.242.11/
   a. Accept Radware as a secure site (Add Exception)
   b. Fill in the username: **admin** and password: **radware**



Overview Cyber Controller

Cyber Controller™ is a centralized device management, monitoring and reporting solution across multiple Radware devices and locations. It provides visibility into realtime identification, prioritization and response to policy breaches, cyber attacks and insider threats. In this exercise you'll manage both Alteons using Cyber Controller.

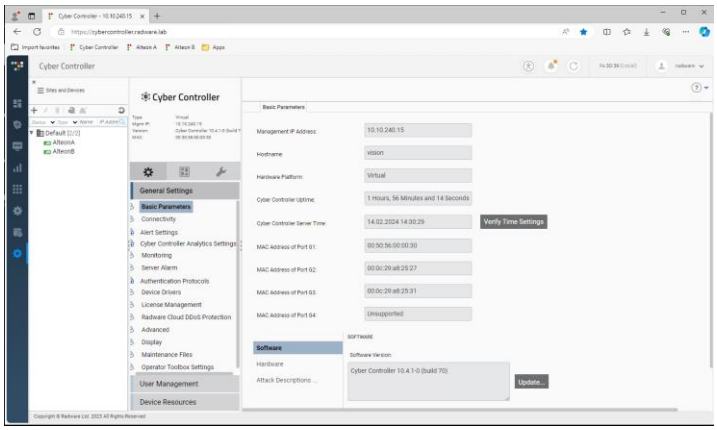
Set Cyber Controller NTP Parameters

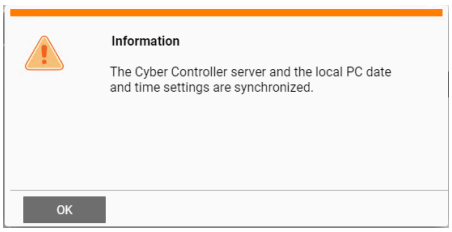
Check that Cyber Controller is using NTP server to ensure that the PC, Alteon and Cyber Controller times are synced.

1. Login to Cyber Controller (10.10.240.15) via **SSH**.
2. Connect by mRemoteNG cc_radware_ssh (credentials: *radware* / *radware*).
3. Use the command: `system ntp servers get` to see if a server is defined.
4. Before you disconnect, check if the time is updated using `system date get` and if the NTP service is running `system ntp service status` command.

Connect to Cyber Controller

1. Open a browser and securely connect to the Cyber Controller server.
   Edge is already preconfigured with a shortcut to the Cyber Controller server.
   In case needed, type the URL **https://cybercontroller.radware.lab**
2. If a security screen appears, click to continue to Radware server. CyberController use by default a self signed certificate.
3. Log in using the Cyber Controller splash-screen.
   User Name: **radware**
   Password: **radware**
4. Select Cyber Controller server, this is the gear icon at left side labeled as **Configuration**.
5. Verify that your lab PC and Cyber Controller clocks are Syncronized:
   Select the tab **System (Gear Icon)** > **General Settings** > **Basic Parameters**. At the **Cyber Controller Server Time** Line press **Verify Time settings**. You should get: The Cyber Controller server and the local PC date and time settings are synchronized





Initial Setup Configuration

Alteon Management

Objectives

After completing this lab, you should be able to:

- Access device for command line interface.
- Access device for web-GUI.
- Set up management interface.
- Reset the device to factory default.
- Customize the prompt for each switch.

Three Ways to connect to an Alteon ADC

You may normally connect to the Alteon in one-of-three ways:

1. Connect to command line interface (CLI): CLI is a built-in, text-based menu system for access. This is the most direct method for configuring Alteon. You can use CLI in the following ways:
   a. **Console port serial connection** (running terminal emulation software i.e. PuTTY).
   b. **Management port connection** (out-of-band gigabit ethernet cable) used exclusively for managing Alteon
   c. **Data network connection** from any device connected by SSH provides same access.
2. Connect using secure, web-based management (WBM) -- accessing Alteon web-GUI at management port or data port which uses a browser via https.
3. Connect using Radware's Cyber Controller (optional and need separate license). The setup is a same as WBM interface. You select the device to manage by Cyber Controller GUI not by a separate login process. Additionally you lock the device before starting any write process and avoid changes at a same time.

IMPORTANT: Manual usually covers GUI (Web/Cyber Controller) option since it is more suitable for starters. CLI (console/SSH) we use only in case GUI is not possible. Keep also in mind, often access via data network ports is blocked by the admin.

Lab Activities

Here is a summary of what you'll be doing in lab:

1. Reset and set up Alteon
   a. Reconnect to Alteon console port (CLI)
   b. Reset (reboot) Alteon
   c. Set up management interface
   d. Customize prompt
   e. Lengthen idle timeout
   f. Set time sync by NTP
   g. Set DNS
   h. Save Configuration
   i. Disable default VLAN

Reset and Setup Alteon

In this section you will learn how to reset Alteon device to the factory default and perform an initial setup.
Step 1 to 3c is for remote lab not mandatory. This is exact the setup you got after deploying this new lab.
This is for expanding your knowledge how you can reset and create a new configuration for any existing Alteon

Reset to factory

1. Connect to Alteon console, this start the VMware Remote Console. Click on connect to use the predefined username and password (student / radware1!)
2. Login as admin with the password radware
3. Reset (reboot) Alteon to factory default settings:

   a. **`/boot/conf` [press enter] `factory` [press enter]**
      Alternatively, you can type: **`/boot/conf factory`**
   b. Would you like to keep the management port connectivity? [y/n] - **`y` [press enter]**
   c. `/boot/reset`
   d. Confirm reset [y/n]: **`y` [press enter]**
      System will reboot using the 'Factory Default' with management port settings.
   e. After the reboot, login into your Alteon as admin using the default password "**admin**" as password
   f. You will be prompted to change the default admin password. Use as new admin password: **radware**

Configure Management Access

1. Set up the management interface.
   a. Set TFTP to use management port.

```
/cfg/sys/mmgmt/tftp mgmt
```

   If you did not save management configuration part during factory reset, you must reconfigure the management interface as well use the commands below:

```
/c/sys/mmgmt
        dhcp disabled
        addr 10.10.242.11
        mask 255.255.248.0
        broad 10.10.247.255
        gw 10.10.240.254
        ena
```

   b. Enable SNMP, since Cyber Controller uses SNMP to access the device

```
/c/sys/access/snmp w
```

   c. APPLY and SAVE changes.

```
apply
save
Confirm saving to FLASH [y/n]: y [press enter]
```

Customize the Device

This setup we will do by WEB user interface.

Use WEB GUI

This is the step most delegate start Radware remote lab activities.

1. Access to the Web UI of Alteon-A using Edge browser https://10.10.242.11 (admin/radware)
2. Customize the prompt for your Alteon.
   a) Go to **Configuration** > **System** > **SNMP** > **System Name** set it to "**Alteon-A**" and press **Submit** button.
   b) Go to **Configuration** > **System** > **Management Access** > **Management Protocols** > **CLI** set Prompt to *Hostname* and press **Submit** button.

   This change is only visible in CLI and not in GUI user interface.

3. Lengthen Alteon idle timeout to 9999 minutes so the device does not idle out.
   Go to **Configuration** > **System > Management Access** set Idle Timeout to *9999*
   The changed value will be applied after next login.
   Press Submit button.

4. Set service access
   By default, all services except Network-HSM using data port stack for communication. We change use management port stack.
   Go to **Configuration** > **System** > **Management Access** > **Management Traffic Routing**
   a) **Set** all services using management instead of data port for traffic. Select **right radio button**.
   b) Press **Submit** button.

5. Set time sync by NTP.
   Set primary NTP to IP address 10.10.240.254, time zone to Europe-Ireland and offset to 00:00 and turn it on and check setup.
   Go to **Configuration** > **System** > **Time and Date**
   a) Time Zone **Europe-Ireland**
   b) **Enable** NTP
   c) Set Primary IP Address to **10.10.240.254**
   d) Set Timezone Offset from GMT to +00:00
   e) Press **Submit** button.

6. Set Domain Name Server.
   Go to **Configuration** > **System** > **DNS Client**
   a) Set Primary IP Address to **10.10.240.254**
   b) Press **Submit** button.

7. Set Syslog Server.
   At Training Client is 3CD application running. It provides TFTP, FTP and a SyslogServer.
   Open the 3CD GUI, go to Syslog Server and you will detect Syslog reporting after setup feature in Alteon.
   Go to **Configuration** > **System** > **Logging and Alerts** > **Syslog Settings**
   a) Set Host 1 IP Address to **10.10.240.1**
   b) Press **Submit** button.
   c) Click on colored button **Apply Required** to apply the configuration change.

Did management reports in 3CDaemon syslog server appear?

8. Disable Default VLANs

In the lab we do not use the default VLANs, so we disable them. On Alteon VA, each port has it's own VLAN, on physical Alteon all ports are associated to the default VLAN (VLAN 1).

Use Web GUI direct or via Cyber Controller.

a) Configuration -> Network -> Layer 2 -> VLAN
b) Double-click on VLAN 1
c) Uncheck box **Enable VLAN**
d) Click **Submit** button
e) Repeat for all default VLANs (2 until 6)
f) Click on colored button **Apply Required** to apply the configuration change.
g) Click on **Save Required** for storing configuration.

9. Backup the configuration

To backup the configuration use the WebUI

a) Configuration -> System -> Configuration Management
b) Select **Export the Configuration** radio button
c) Check box **Include Private Keys** (this is needed to save also the private keys of the web management and other certificates)
d) Type **radware** as Passphrase and confirm the passphrase
e) Click **Export** button
f) The configuration file will be saved to the downloads folder on the client. If you want you can rename the file to reflect that it is the configuration file after the initial setup.

This finishes the default setup of Alteon-A.

For questions, contact training@Radware.com