

Alien Vault Open Source SIEM Installation

OSSIM is an open source security information and event management system, integrating a selection of tools designed to aid network administrators in computer security, intrusion detection and prevention.

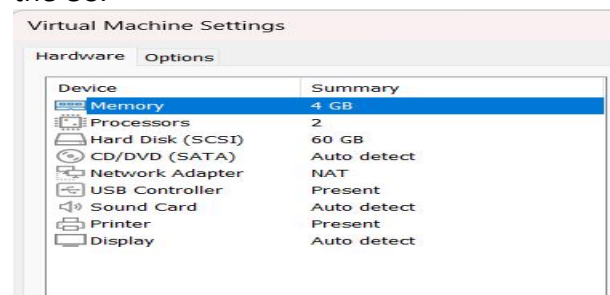
Please download the latest ISO image from the following link.

https://cdn-cybersecurity.att.com/downloads/AlienVault_OSSIM_64bits.iso

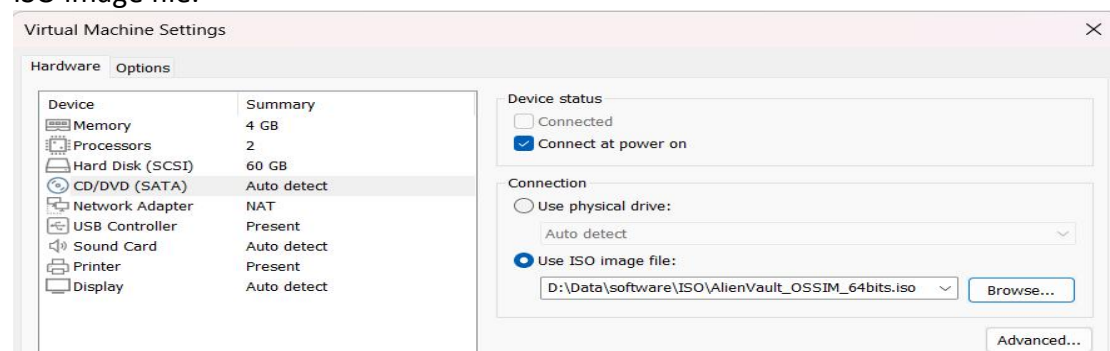
For an installation of AlienVault OSSIM, the minimum system requirements are as follows

2 CPU cores
4-8 GB RAM
50 GB HDD
E1000 compatible network cards

1. Create a Virtual machine with 2 CPU cores, 4 GB RAM, 60 GB HDD(Stored as a single disk) and a network card in NAT mode as shown below. Select Ubuntu 64 bit in the OS.



2. Now in the above settings click CD/DVD. Click Use ISO Image file option. Click Browse button and select the path where you downloaded your Alien Vault OSSIM ISO image file.



Click OK

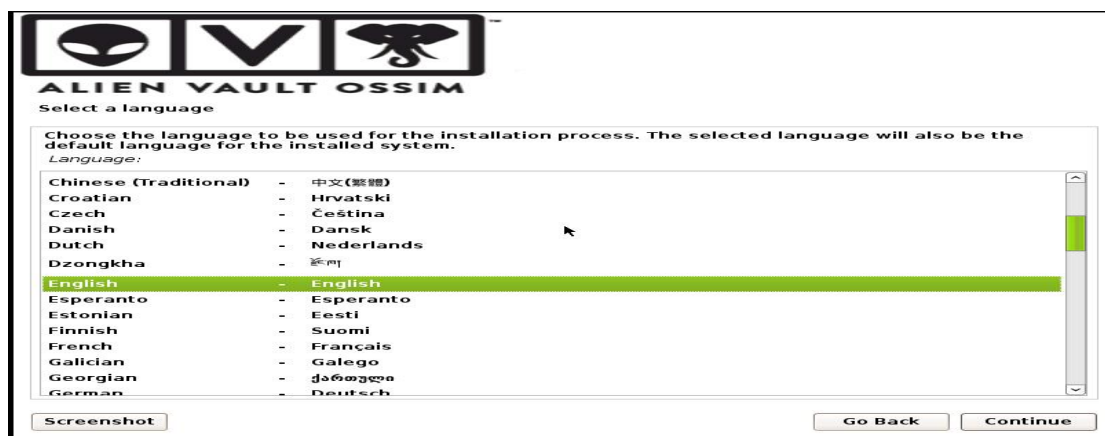
3. Start the VM to boot from the ISO.

4. Once the machine starts, following page is displayed.

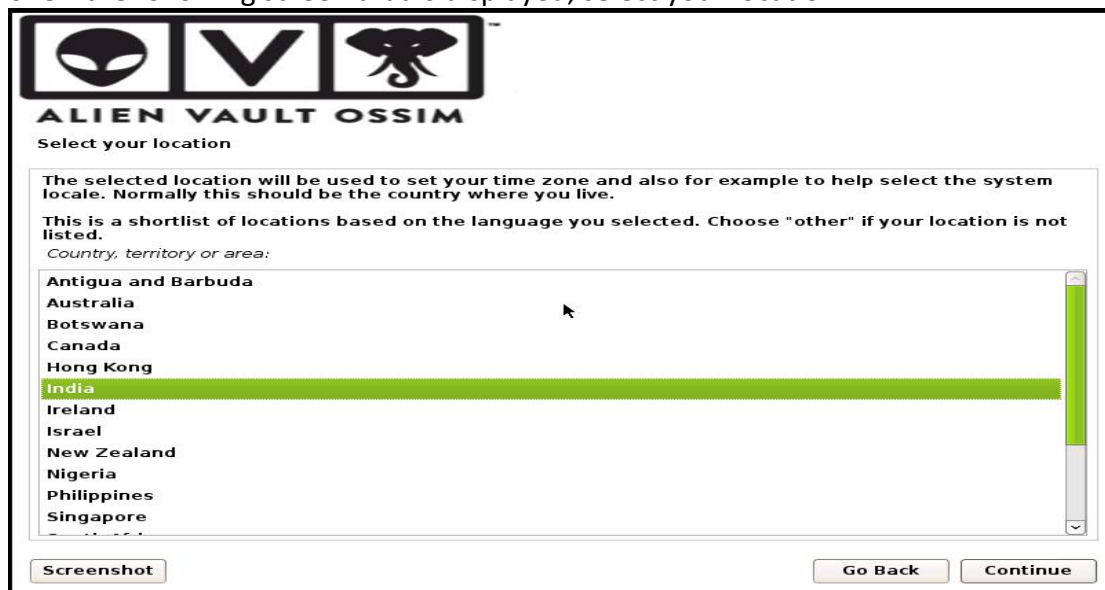


Keep the first option selected to install AlienVault OSSIM. Press Enter.

5. On the next screen, keep the language as English. Press Enter to continue.

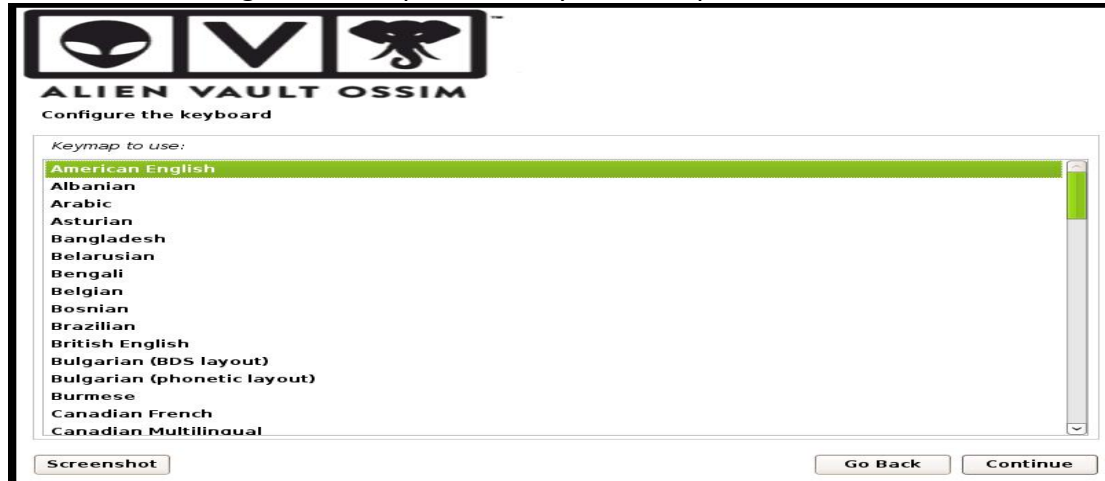


6. On the following screen that is displayed, select your location.



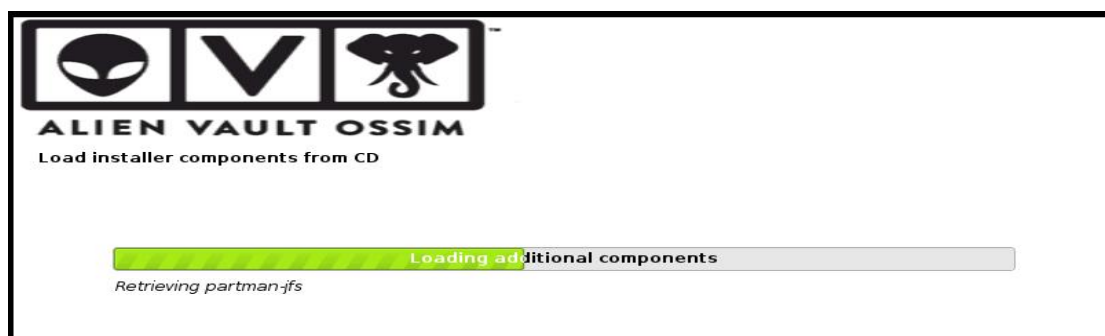
Press Enter to continue.

7. On the following screen keep default keyboard map.

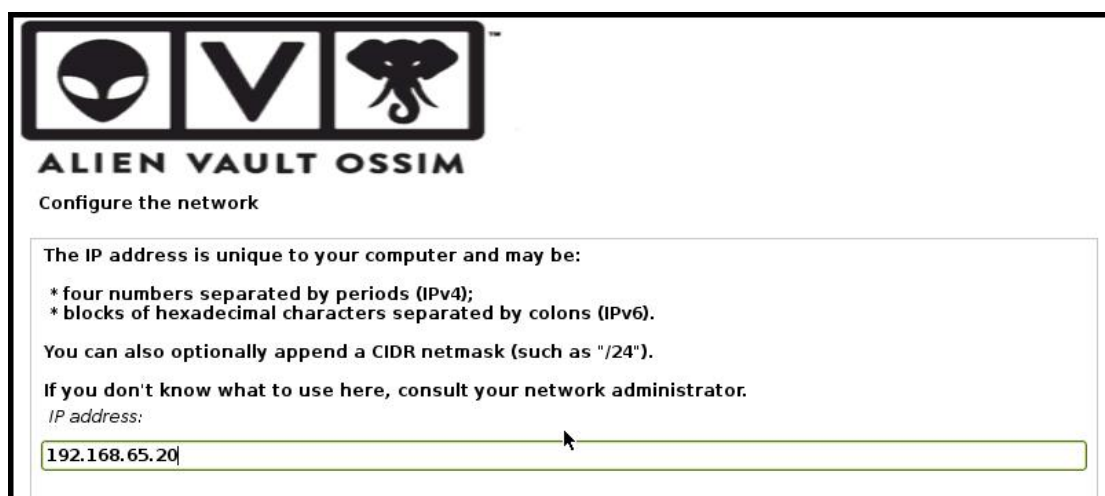


Press Enter to continue.

8. It will load the installer components from the CD s shown below.

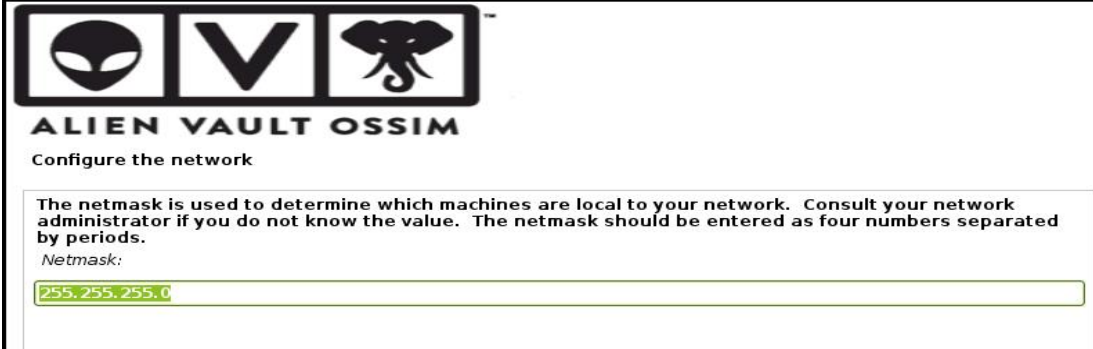


9. On the following screen type an IP address for this OSSIM machine. For this lab purpose make sure you provide an IP address in the range of your VMNet 8 adapter of VMWare player.



Press Enter to continue.

10. On the next screen keep the default subnet mask or change it to mach your network subnet mask.



ALIEN VAULT OSSIM

Configure the network

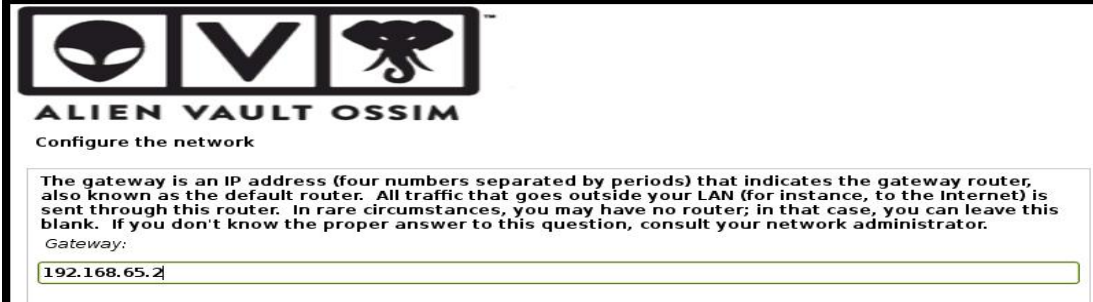
The netmask is used to determine which machines are local to your network. Consult your network administrator if you do not know the value. The netmask should be entered as four numbers separated by periods.

Netmask:

255.255.255.0

Press Enter to continue.

11. On the next screen provide the default gateway as shown below.



ALIEN VAULT OSSIM

Configure the network

The gateway is an IP address (four numbers separated by periods) that indicates the gateway router, also known as the default router. All traffic that goes outside your LAN (for instance, to the Internet) is sent through this router. In rare circumstances, you may have no router; in that case, you can leave this blank. If you don't know the proper answer to this question, consult your network administrator.

Gateway:

192.168.65.2

Press Enter to continue.

12. On the next screen provide a DNS Server.



ALIEN VAULT OSSIM

Configure the network

The name servers are used to look up host names on the network. Please enter the IP addresses (not host names) of up to 3 name servers, separated by spaces. Do not use commas. The first name server in the list will be the first to be queried. If you don't want to use any name server, just leave this field blank.

Name server addresses:

8.8.8.8

Press Enter to continue.

13. On the next screen provide a password for the root user.



ALIEN VAULT OSSIM

Set up users and passwords

You need to set a password for 'root', the system administrative account. A malicious or unqualified user with root access can have disastrous results, so you should take care to choose a root password that is not easy to guess. It should not be a word found in dictionaries, or a word that could be easily associated with you.

A good password will contain a mixture of letters, numbers and punctuation and should be changed at regular intervals.

The root user should not have an empty password. If you leave this empty, the root account will be disabled and the system's initial user account will be given the power to become root using the "sudo" command.

Note that you will not be able to see the password as you type it.

Root password:

••••••••

☐ Show Password in Clear

Please enter the same root password again to verify that you have typed it correctly.

Re-enter password to verify:

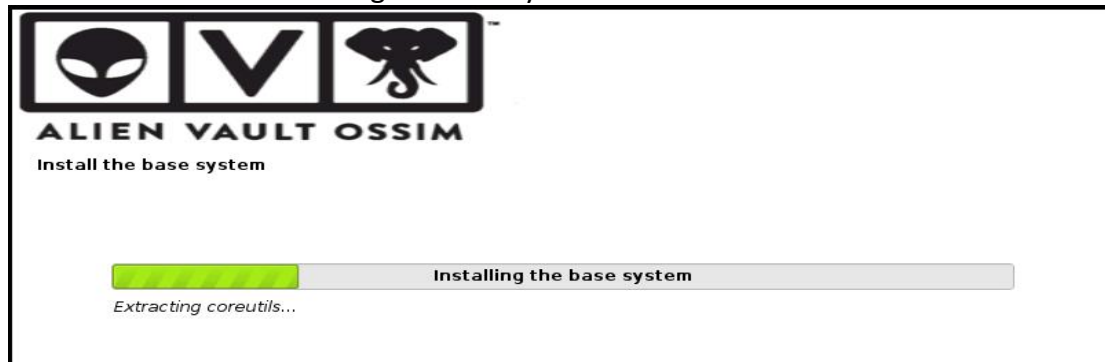
••••••••

☐ Show Password in Clear

Screenshot Go Back Continue

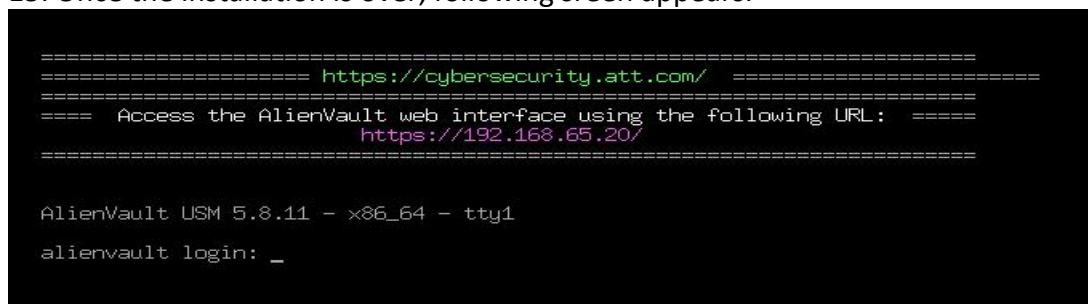
Press Enter to continue.

14. Now it will start installing the base system as shown below.



It takes lot of time to complete this installation.

15. Once the installation is over, following screen appears.

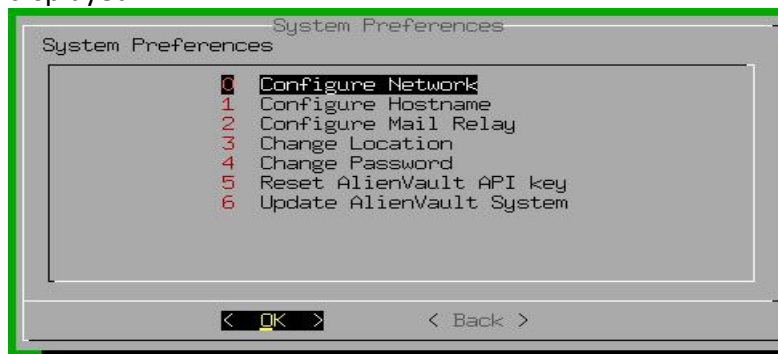


Provide username as **root** and password given during installation.

16. It takes some time to display the following screen.



17. Press Enter to go into the System Preference menu. Following options are displayed.



18. Press Enter to enter into Configure Network options. Following options are displayed.

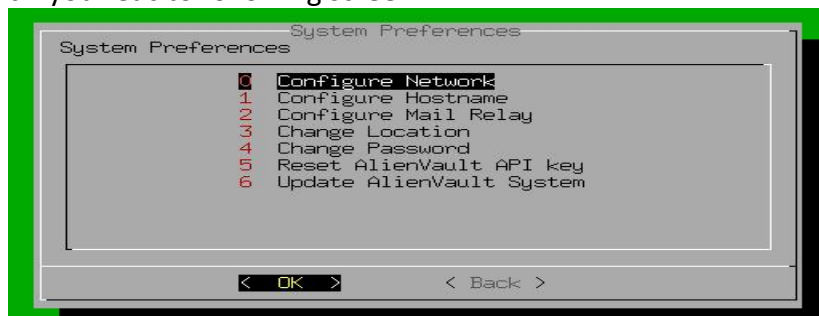


Press Enter to enter into Setup Management Network option.

19. Make sure the interface is selected (* is displayed).



20. If you press Enter, it will ask you to set IP address, Subnet mask and Default gateway. However as it is already set during installation, press cancel. Press Cancel till you reach the following screen.



21. Select **Configure Hostname** and press Enter.

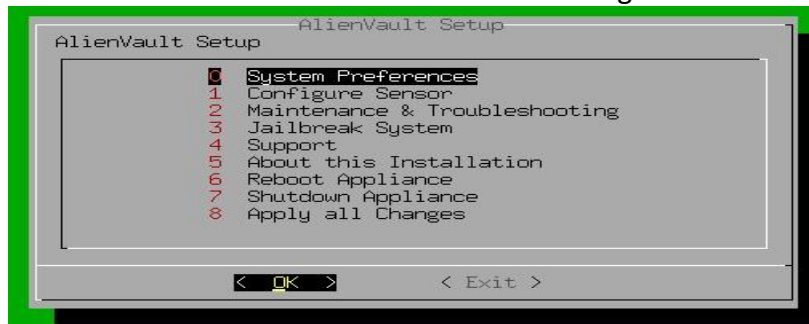


Type a Hostname for your OSSIM server and press Enter.

22. Following screen is displayed.

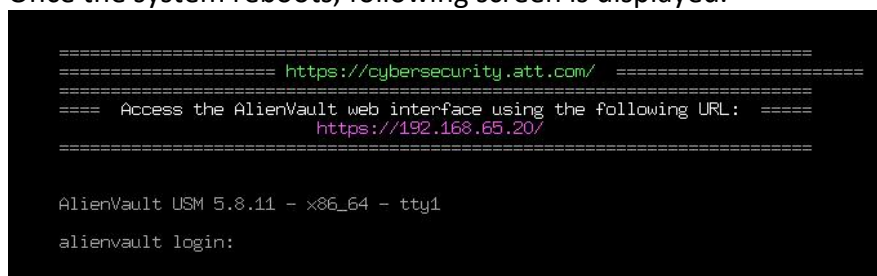


Press Enter. Press back to come to the following screen.



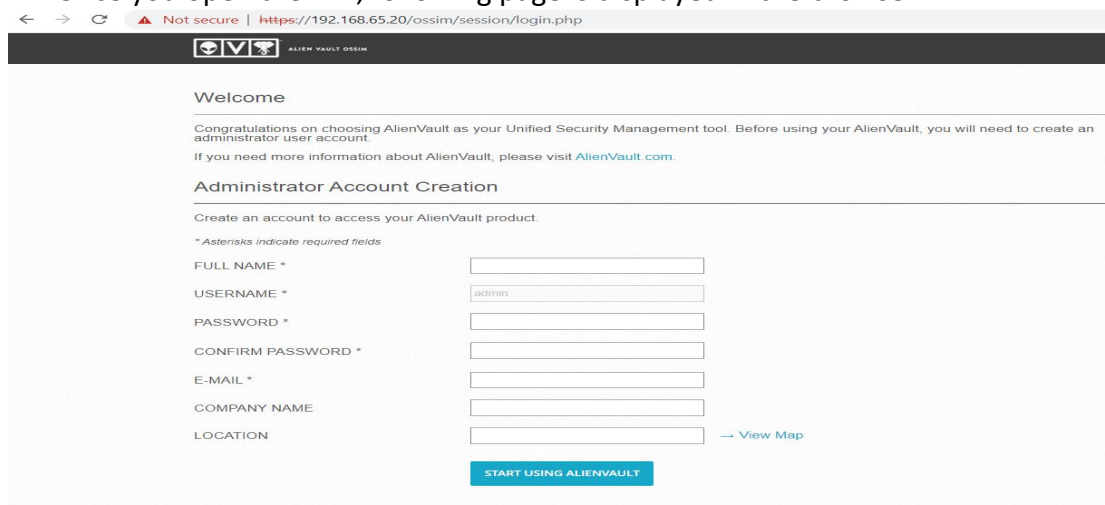
23. Select **Reboot appliance** option and press Enter. Press Yes.

Once the system reboots, following screen is displayed.

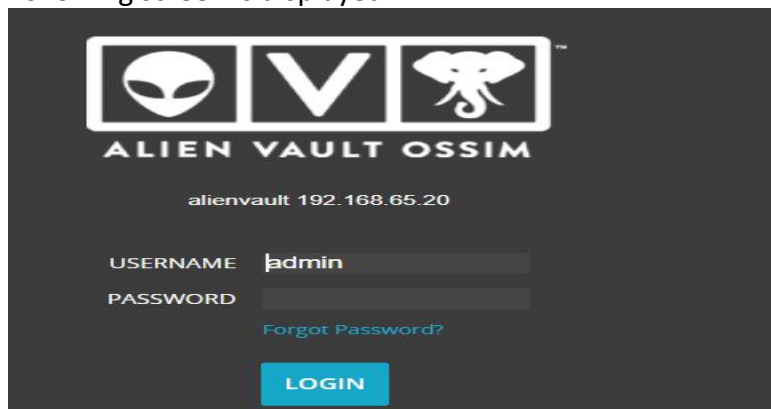


Further configuration is using the web console. Thus open the browser on your main Windows machine or any other VM and type the URL shown in the above screen.

24. Once you open the link, following page is displayed in the browser.



Provide details. Click Start using AlienVault. It will create an admin user. Following screen is displayed.



The login screen for AlienVault OSSIM. At the top, there is a logo consisting of three icons: an alien head, a large 'V', and an elephant. Below the logo, the text 'ALIEN VAULT OSSIM' is displayed. Underneath, the IP address 'alienvault 192.168.65.20' is shown. There are two input fields: 'USERNAME' with 'admin' entered and 'PASSWORD' which is empty. A link 'Forgot Password?' is located below the password field. A blue 'LOGIN' button is at the bottom.

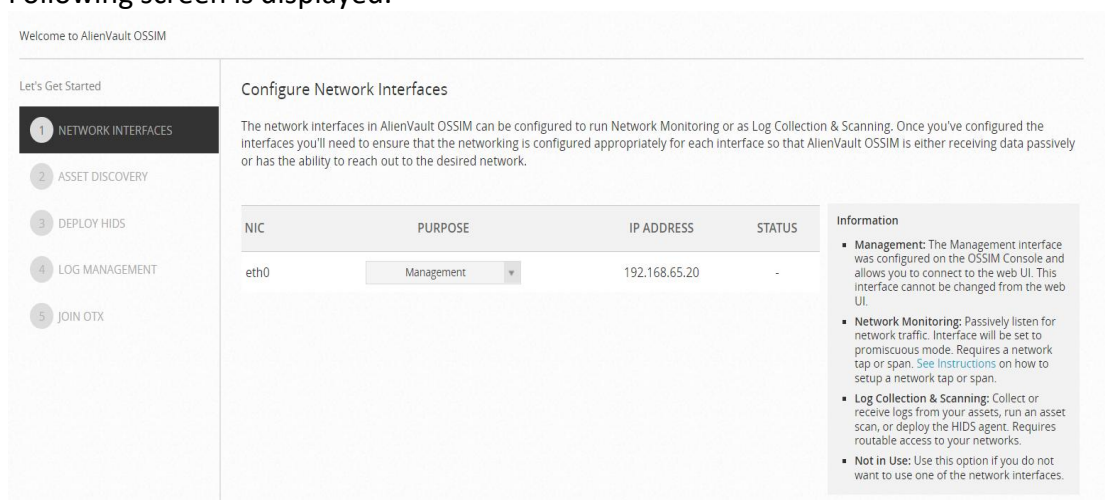
Once you login, following screen is displayed.



The 'Welcome to the AlienVault OSSIM Getting Started Wizard' screen. It features the AlienVault logo at the top. Below the logo, the title 'Welcome to the AlienVault OSSIM Getting Started Wizard' is displayed, followed by a subtitle: 'You are about to use this wizard to configure the critical security capabilities provided by AlienVault OSSIM.' The wizard consists of three steps: 1. Monitor Network (Configure interfaces and monitor network traffic for threats), 2. Discover Assets (OSSIM will perform a discovery scan to detect assets), and 3. Collect Logs & Monitor Assets (Monitor asset logs and alarm on suspicious activity). Each step is accompanied by a diagram. At the bottom, there is a message: 'Once done you'll be ready to use AlienVault OSSIM. Now, go forth!' and a link 'Skip AlienVault Wizard'. A blue 'START' button is located at the bottom right.

Click START.

Following screen is displayed.



The 'Configure Network Interfaces' screen. On the left, there is a sidebar titled 'Let's Get Started' with five steps: 1. NETWORK INTERFACES (selected), 2. ASSET DISCOVERY, 3. DEPLOY HIDS, 4. LOG MANAGEMENT, and 5. JOIN OTX. The main content area is titled 'Configure Network Interfaces' and contains a paragraph: 'The network interfaces in AlienVault OSSIM can be configured to run Network Monitoring or as Log Collection & Scanning. Once you've configured the interfaces you'll need to ensure that the networking is configured appropriately for each interface so that AlienVault OSSIM is either receiving data passively or has the ability to reach out to the desired network.' Below this paragraph is a table with four columns: NIC, PURPOSE, IP ADDRESS, and STATUS. The table has one row with the following data: NIC: eth0, PURPOSE: Management (with a dropdown arrow), IP ADDRESS: 192.168.65.20, and STATUS: -. To the right of the table is an 'Information' section with four bullet points: Management, Network Monitoring, Log Collection & Scanning, and Not in Use.

NIC	PURPOSE	IP ADDRESS	STATUS
eth0	Management	192.168.65.20	-

Information

- **Management:** The Management interface was configured on the OSSIM Console and allows you to connect to the web UI. This interface cannot be changed from the web UI.
- **Network Monitoring:** Passively listen for network traffic. Interface will be set to promiscuous mode. Requires a network tap or span. See [Instructions](#) on how to setup a network tap or span.
- **Log Collection & Scanning:** Collect or receive logs from your assets, run an asset scan, or deploy the HIDS agent. Requires routable access to your networks.
- **Not in Use:** Use this option if you do not want to use one of the network interfaces.

Click Next. It will start Asset Discovery. It scans the network and displays the hosts discovered as shown below.

Let's Get Started

- 1 NETWORK INTERFACES
- 2 ASSET DISCOVERY
- 3 DEPLOY HIDS
- 4 LOG MANAGEMENT
- 5 JOIN OTX

[SKIP ALIENVault WIZARD](#)

Scan & Add Assets

In order to begin monitoring your environment we must first find the assets in your network. There are three (3) ways you can add assets to monitor: you can scan your network using network ranges, import a CSV of assets in your network, or you can add assets manually.

Add Asset Manually

HOSTNAME	IP	TYPE	
alienvault	192.168.65.20	Linux	<input type="button" value="X"/> <input type="button" value="Delete"/>
Host-192-168-65-1	192.168.65.1	Windows	<input type="button" value="X"/> <input type="button" value="Delete"/>
Host-192-168-65-140	192.168.65.140	Windows	<input type="button" value="X"/> <input type="button" value="Delete"/>
Host-192-168-65-151	192.168.65.151	Select an Asset Type	<input type="button" value="X"/> <input type="button" value="Delete"/>
Host-192-168-65-2	192.168.65.2	Select an Asset Type	<input type="button" value="X"/> <input type="button" value="Delete"/>
Host-192-168-65-254	192.168.65.254	Select an Asset Type	<input type="button" value="X"/> <input type="button" value="Delete"/>

SHOWING 1 TO 6 OF 6 ASSETS

FIRST PREVIOUS 1 NEXT LAST

You can add hosts manually if the hosts are not discovered. If you want to scan network click SCAN NETWORKS option. You can add hosts later also. Once you get all your hosts, Click Next .

The following page allows you to deploy HIDS on the Windows machines. For Linux machines remote HIDS monitoring will be configured. On Windows tab, expand Network address displayed. Provide Username and password and click deploy.

Welcome to AlienVault OSSIM

Let's Get Started

- 1 NETWORK INTERFACES
- 2 ASSET DISCOVERY
- 3 DEPLOY HIDS
- 4 LOG MANAGEMENT
- 5 JOIN OTX

Deploy HIDS to Servers

For these devices we recommend deploying HIDS in order to perform file integrity monitoring, rootkit detection and to collect event logs. For windows machines the HIDS agent will be installed locally, for Unix/Linux environments remote HIDS monitoring will be configured.

WINDOWS (2) UNIX / LINUX (1)

Enter the domain admin account to install the HIDS agent. The username and password you provide will *not* be permanently stored, it will be used to deploy an agent to the selected assets.

Username

Password

Domain (Optional)

Deploy to the following hosts:

- ☒ Local_192_168_65_0_24
- ☐ Host-192-168-65-1
- ☒ Host-192-168-65-140

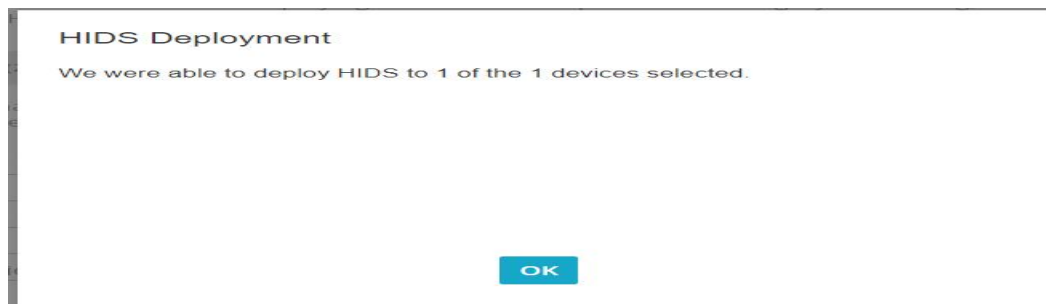
Following screen is displayed.

HIDS Deployment

You are about to deploy 1 host, this may take more than a few minutes. Are you sure you would like to continue?

Click Continue.

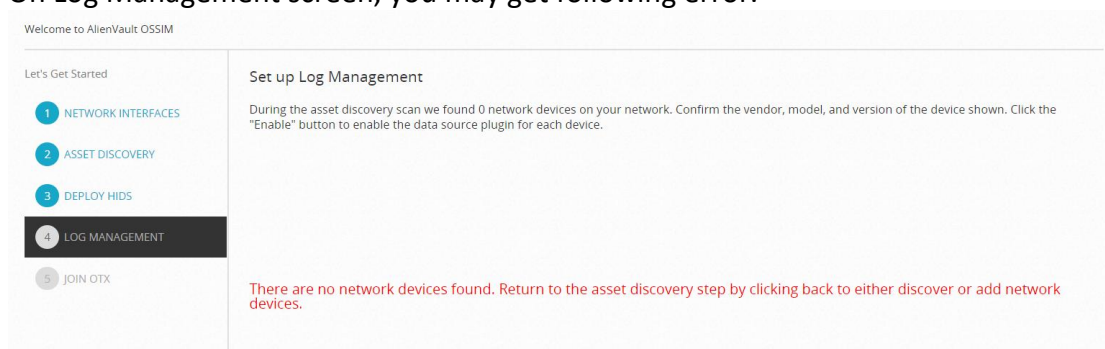
It starts deploying the HIDS.



However it may fail. Thus it is always good to install the HIDS agent on the client machines manually.

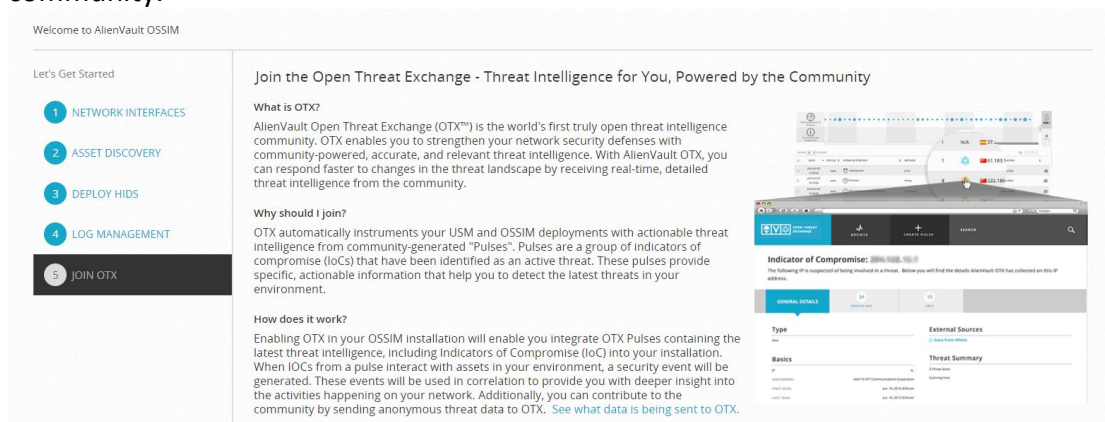
Click OK. Click NEXT.

On Log Management screen, you may get following error.



Click SKIP THIS STEP.

On the following screen you can participate in the Open Threat Exchange community.



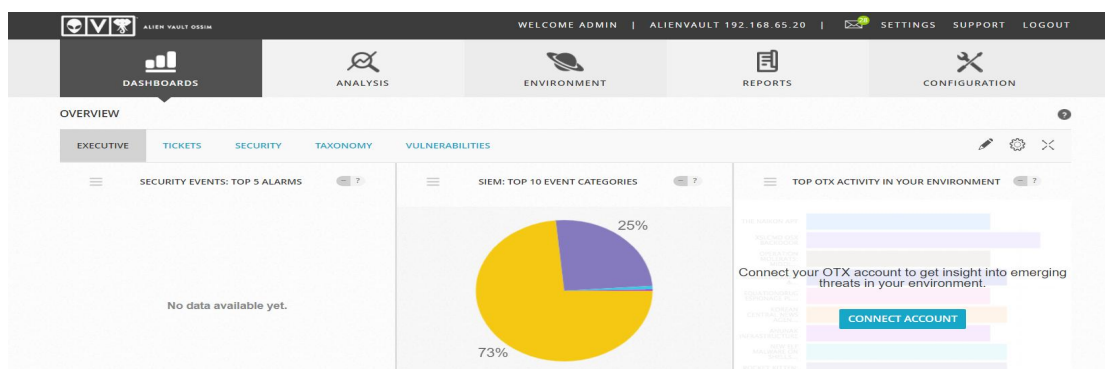
Click SKIP THIS STEP if you do not want to participate.

Finally Click FINISH.

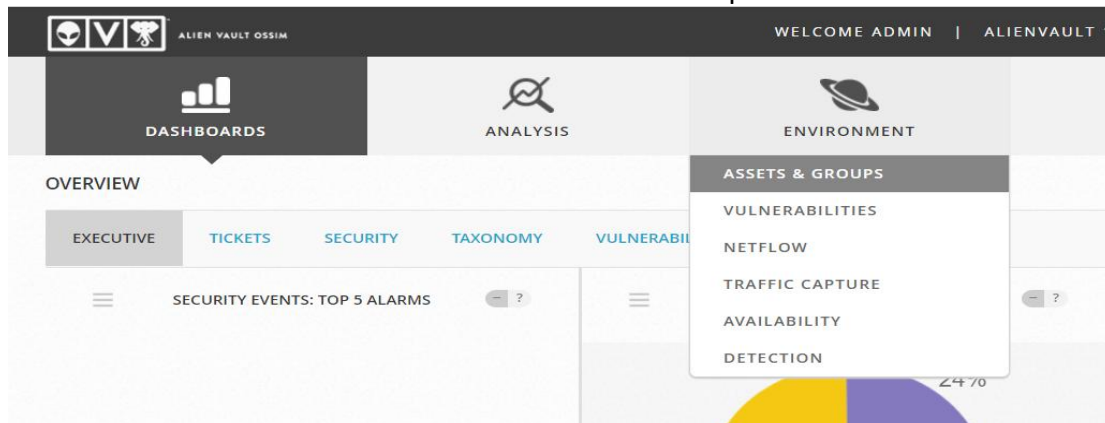
Following screen is displayed.



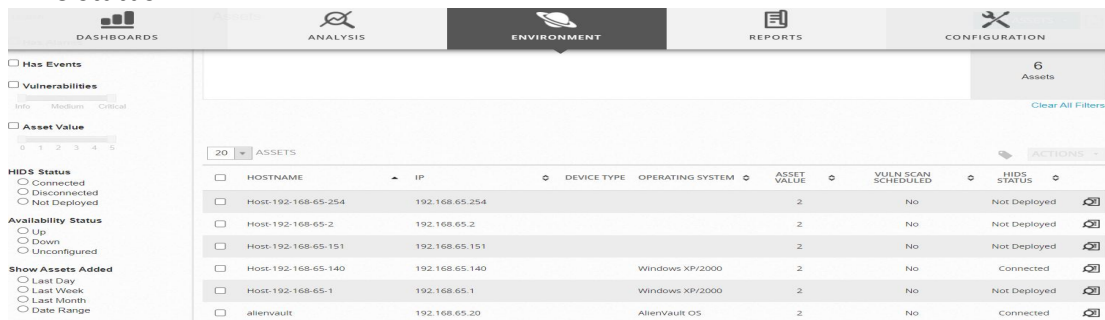
Click Explore AlienVault OSSIM.
You will reach to the following console.



Now click ENVIRONMENT tab and click Assets and Group as shown below.



This will display following page. It will display hosts within your network and their HIDS status.



Click on any host and it will display details about that host as shown below.

<input type="checkbox"/>	HOSTNAME	IP	DEVICE TYPE	OPERATING SYSTEM	ASSET VALUE	VULN SCAN SCHEDULED	HIDS STATUS	
<input type="checkbox"/>	Host-192-168-65-254	192.168.65.254			2	No	Not Deployed	
<input type="checkbox"/>	Host-192-168-65-2	192.168.65.2			2	No	Not Deployed	
<input type="checkbox"/>	Host-192-168-65-151	192.168.65.151			2	No	Not Deployed	
<input type="checkbox"/>	Host-192-168-65-140	192.168.65.140		Windows XP/2000	2	No	Connected	

Vulnerabilities	Alarms	Events	Availability	Services	Groups	Notes

<input type="checkbox"/>	Host-192-168-65-1	192.168.65.1		Windows XP/2000	2	No	Not Deployed	
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Click on the Magnifier icon in front of host. Following screen is displayed.

ASSETS & GROUPS

ASSETS ASSET GROUPS NETWORKS NETWORK GROUPS SCHEDULE SCAN

Assets > Asset Details

Host-192-168-65-140

192.168.65.140 [00:0C:29:35:10:35]
Windows XP/2000

Asset Value
0 1 2 3 4 5

Device Type
Unknown

Networks
Local 192.168.65.0/24 (192.168.65.20)

Sensors
alienvault (192.168.65.20)

Model
Unknown

Asset Type
Internal

ACTIONS
Edit
Delete
Run Asset Scan
Run Vulnerability Scan
Enable Availability Monitoring
Disable Availability Monitoring
Deploy HIDS Agent

ENVIRONMENT STATUS
HIDS

Click the ACTIONS button and click RUN VULNERABILITY SCAN.

On the new window that opens, Provide a job name, Select required profile.

Vulnerability Scan

CREATE SCAN JOB

Job Name:

Select Sensor:

Profile:

Schedule Method:

Exclude Ports:

☒ Only scan hosts that are

☒ Pre-Scan locally (do not

☐ Do not resolve names

ASSET	SENSOR	AVAILABLE	NMAP SCAN
192.168.65.140	alienvault [192.168.65.20]	✓	✓ Pre-scan locally

Keep all other settings to default. Click Save.

Click Schedule Scan option on the same page.

Click Vulnerability Scans.

Following page shows the details.

VULNERABILITIES ?

OVERVIEW SCAN JOBS THREAT DATABASE

NEW SCAN JOB IMPORT ALIENVault SCAN PROFILES SETTINGS



RUNNING SCANS

No Running Scans

SCHEDULED JOBS

No Scheduled Jobs

ALL SCANS

JOB NAME	LAUNCH TIME	SCAN START TIME	SCAN END TIME	SCAN TIME	NEXT SCAN	REPORTS	ACTIONS
 scan1 Sensor 192.168.65.20 is not available. Loading plugins ...	2022-11-27 14:59:55				2022-11-27 15:15:04	-	

Please follow steps mention below to add a Linux host to Alien Vault OSSIM.

<https://cybersecurity.att.com/documentation/usm-appliance/ids-configuration/deploying-alienvault-hids.htm>

Following link provides details to add a Windows host to Alien Vault OSSIM.

<https://cybersecurity.att.com/documentation/usm-appliance/ids-configuration/deploying-alienvault-hids.htm>

A complete online guide for Alien Vault OSSIM can be found on the link given below.

<https://cybersecurity.att.com/documentation/usm-appliance-deployment-guide.htm?tocpath=Documentation%7CUSM%20Appliance%E2%84%A2%7CDeployment%20Guide%7C0>