Scanning Intra-Websites on Nemasis DAST

The **Domain Name System** (**DNS**) is the Internet's phonebook, using domain names such as example.com, people access information online. Web browsers use Internet Protocol (IP) addresses to interact. DNS translates domain names into IP addresses so browsers can load Internet resources.

Each internet-connected device has a unique IP address that is used by other machines to locate the device. DNS servers remove the need for people to memorize IP addresses like 010.010.0.1 (in IPv4) or more complex new IP addresses like 2400:cb00:2048:1::c629:d7a2 (in IPv6).

Steps in DNS Lookup

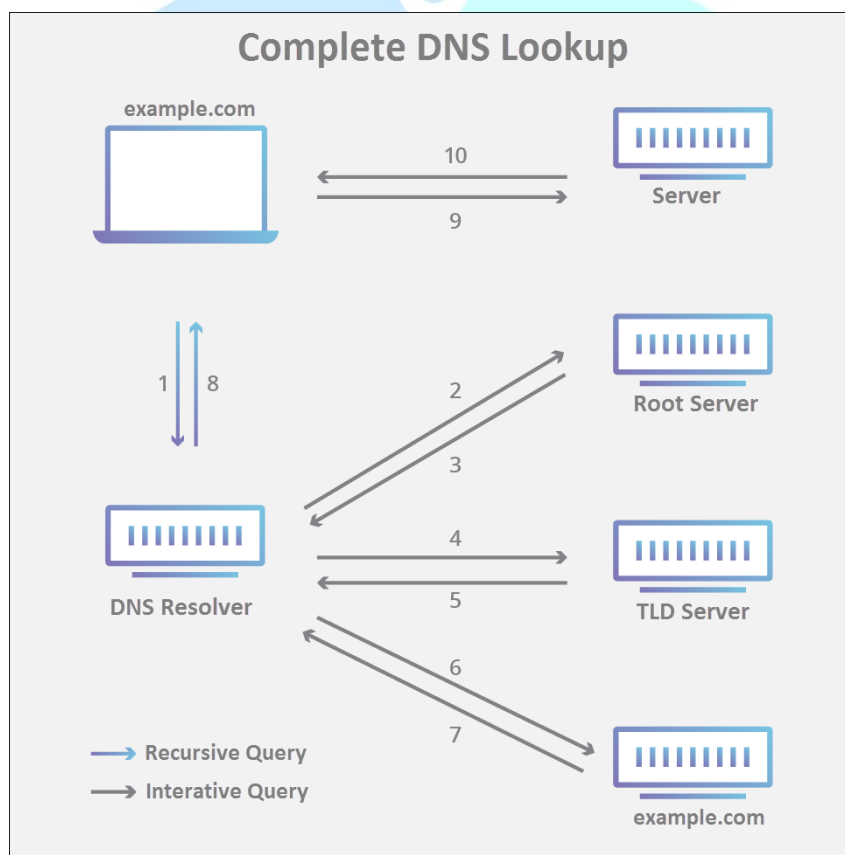The following diagram will help you to understand how DNS lookup work:

Figure 1

Steps to Scan Intra-Website

Nemasis DAST not only provide users with an option to scan publically hosted websites but also scans Intra-website (locally hosted) by inserting DNS name. When Nemasis receives a request from a DNS client, it first searches the requested host-to-IP-address translation is already stored within its local layer of persistence. Once the data is found then, it will use that IP address to scan the web applications.

To add Local DNS follow the below steps:

1. Login to the system where Nemasis is installed. Type the root password and then press Enter to log in. Refer to Figure 2.
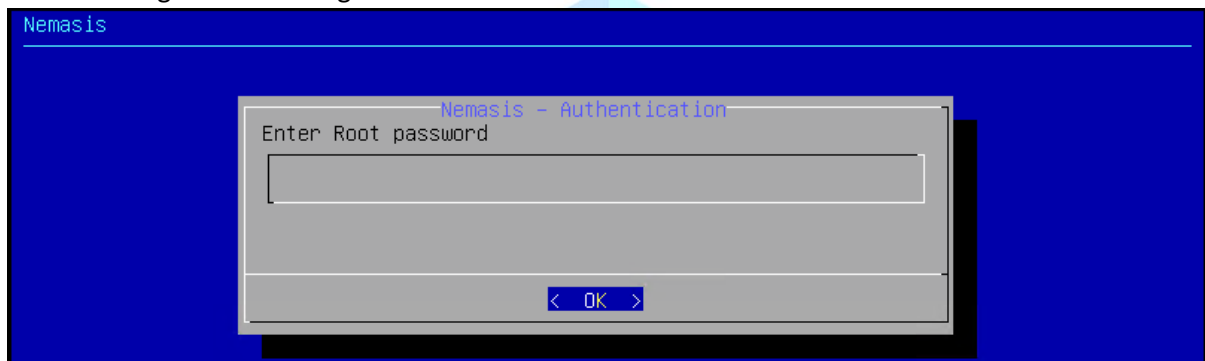

Figure 2

2. Nemasis configuration window appears, it has various configure options. Refer to Figure 3.
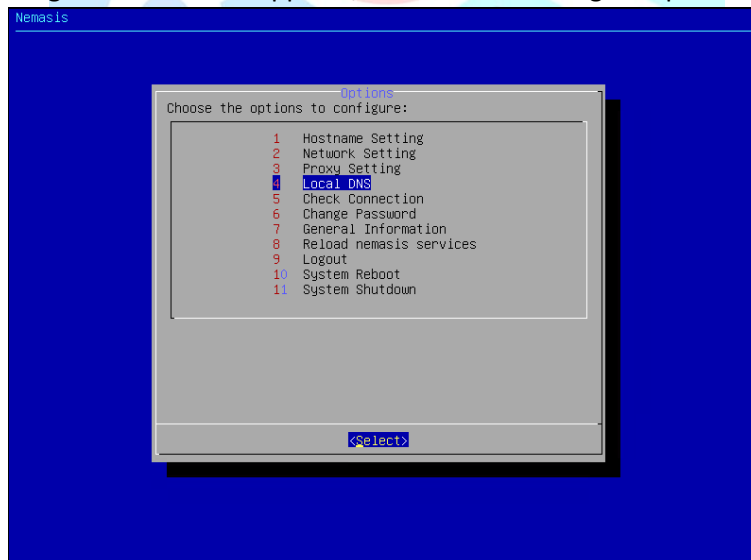

Figure 3

3. Select the **Local DNS** option to configure the scanning of intra-website. DNS configuration window appears. Refer to Figure 4.
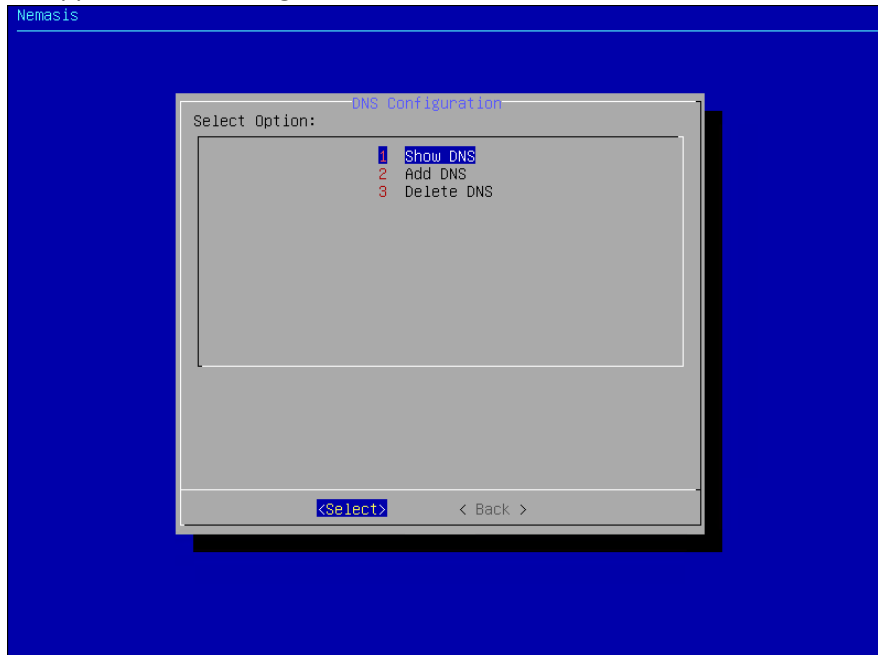

Figure 4

This window has following option:

- **Show DNS**: This option displays the DNS set by the users. Refer to Figure 5.
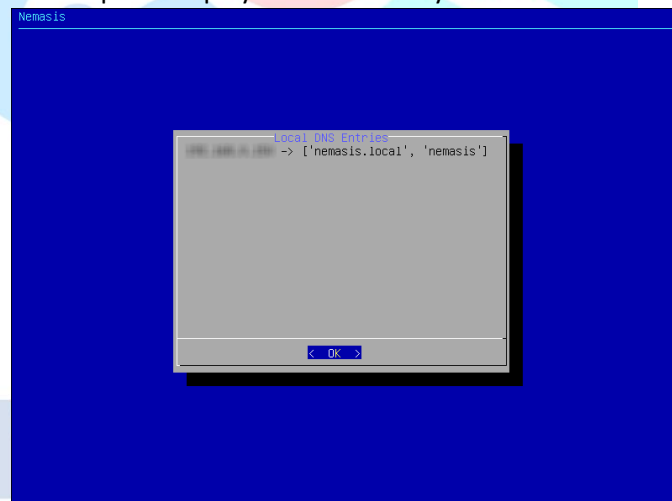

Figure 5

- **Add DNS**: This option helps user to add the DNS for the intra-websites. User will enter the Domain name and IP address of the intra-websites and click on **Submit**. Refer to 6.
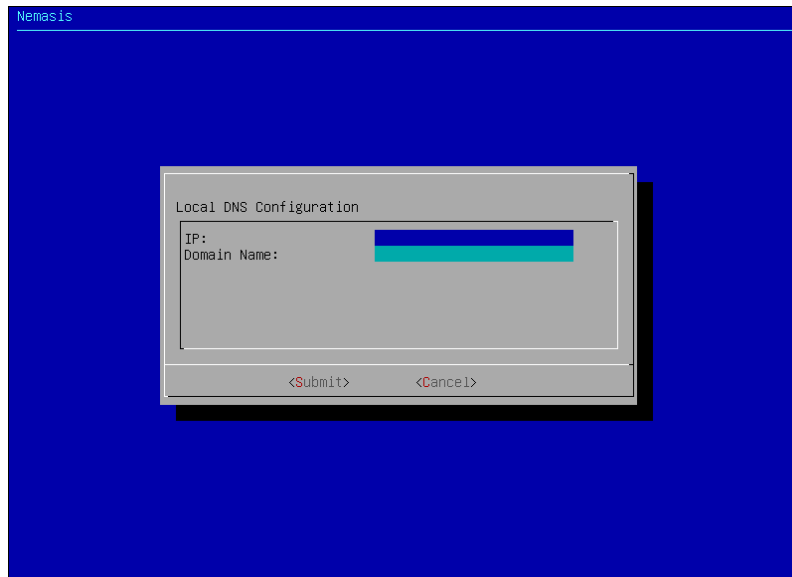

<p align="center">**Figure 6**</p>

- **Delete DNS**: This option helps user to delete the DNS that are added.
4. As explained above, select **Add DNS** option and enter the domain name and IP address.
5. After adding the DNS, go to Nemasis web console. Click on **Scan** submodule and enter the domain name provided in the **Add DNS** option. Refer to Figure 7.
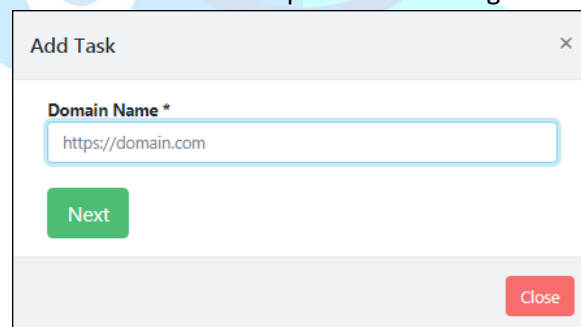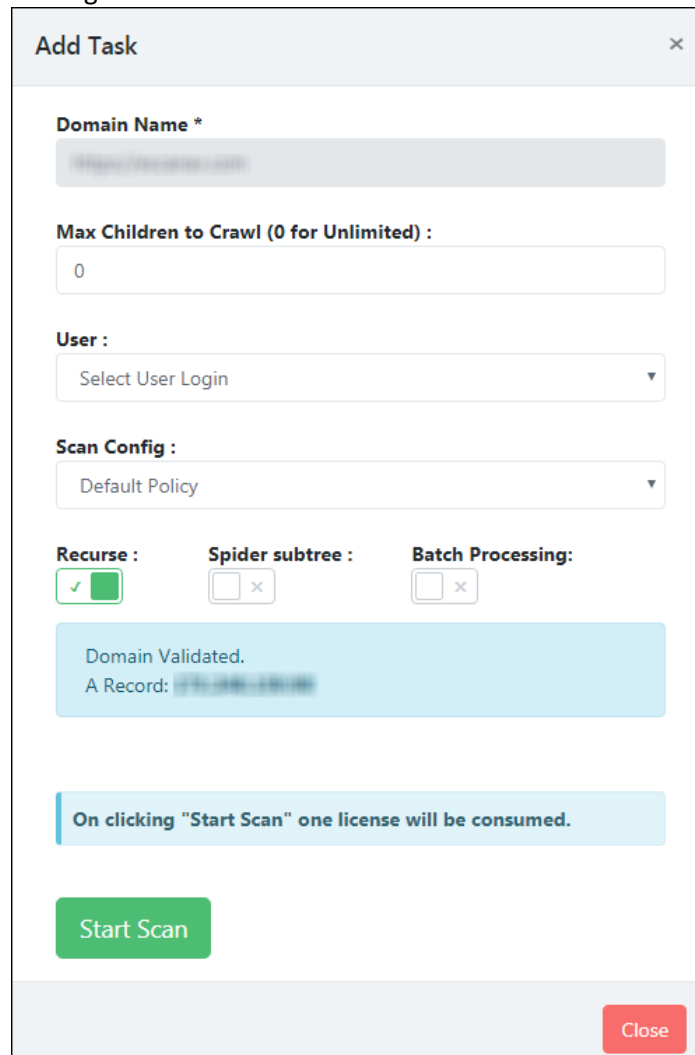

<p align="center">**Figure 7**</p>

6. Click **Next**. Add task window extends. Nemasis maps the domain name with the given IP address. Refer to Figure 8.

7. Click **Start Scan**. The scan will be initiated.