**Installation Guide for External vST deployment
Version 1.26**

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# Introduction

## Scope and Purpose

This document describes the system requirements, installation and configuration steps for the Uila External Virtual Smart Tap (External vST).

It is assumed that the reader has already installed the Uila Management and Analytics system(UMAS) and the Virtual Information Controller (vIC).

## Overview

The external vST is deployed as a standalone physical server with the ability to monitor non-virtualized appliances in a datacenter. The external vST is embedded with a Deep Packet Inspection (DPI) to identify unique applications and their attributes within the datacenter infrastructure. The external vST also measures application response time and collects performance data without examining or storing the packets, thus eliminating the risk of exposing sensitive data.

# Getting Started

## System Requirements

Installation guide for External vST deployment

Prior to the install of the External vST appliance, prepare the infrastructure:

- Locate network switch where the physical hosts are to be monitored.
- Identify a switch with at least one SPAN port.
    - Open one network port for the External vST connection

- Minimum hardware requirements for the physical server:
    - Intel Xeon E3-1230 v5 3.4Ghz, 4xCore, equivalent or better
    - 8G RAM
    - 500G hard drive
    - 1 x 1G Network interface port to be attached to switch Span port – prefer Intel Ethernet Server Adapter I350 equivalent or better. (Intel adapter yields better performance)
    - 1 x 1G Network interface port for connection to Uila vIC.

- **OS requirements**:

| Linux Type | Build |
|---|---|
| **Centos 7 & RedHat 7.3** | 3.10.0-514.el7.x86_64 |
| **RedHat 7** | 3.10.0-123.el7.x86_64 |
| **Ubuntu 16.04** | 4.4.0-31-generic |
| **Ubuntu 16.04.2** | 4.4.0-62-generic |

**Note:** Uila will supply vST software bundle with the instruction for installation on target machine.

## Preparing the network for Uila External vST Appliance

The following network diagram will illustrate a typical network connection required for External vST appliance.

- Ensure the physical hosts and physical vST appliance is connected to the same network switch.
- Network switch must have an open SPAN

## Deploy Uila External vST to monitor Physical Networks

This section describes the step-by-step instruction to download, install and activate the External vST.

1. Connect network interface cards to the physical network switch. Locate the two NIC ports at the back of the External vST Appliance.
   - Connect NIC-1 to a port of the network switch that has IP connectivity to Uila vIC.
   - Connect NIC-2 to the SPAN port of the network switch.



2. Ensure at least 2 network interface cards (NIC) are enabled. This can be verified by typing "ifconfig" on the Linux terminal.

```
root@extvst:~# ifconfig
eno1      Link encap:Ethernet  HWaddr 5c:f9:dd:6f:e4:45
          inet6 addr: fe80::5ef9:ddff:fe6f:e445/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:1589 errors:0 dropped:2 overruns:0 frame:0
          TX packets:8 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:147607 (147.6 KB)  TX bytes:680 (680.0 B)
          Interrupt:20 Memory:e1d00000-e1d20000

enp3s2    Link encap:Ethernet  HWaddr 00:03:47:0a:55:40
          inet addr:192.168.0.173  Bcast:192.168.0.255  Mask:255.255.255.0
          inet6 addr: fe80::203:47ff:fe0a:5540/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:1653 errors:0 dropped:0 overruns:0 frame:0
          TX packets:50 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:149509 (149.5 KB)  TX bytes:8149 (8.1 KB)

lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING  MTU:65536  Metric:1
          RX packets:160 errors:0 dropped:0 overruns:0 frame:0
          TX packets:160 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1
          RX bytes:11840 (11.8 KB)  TX bytes:11840 (11.8 KB)
```
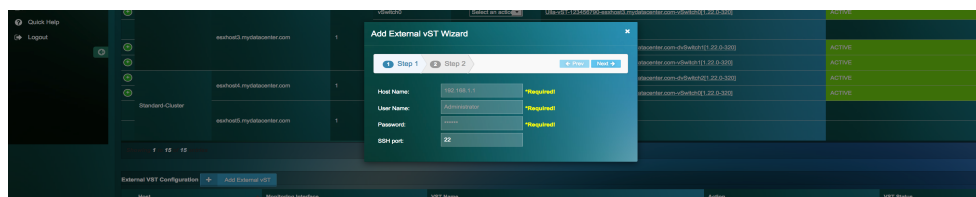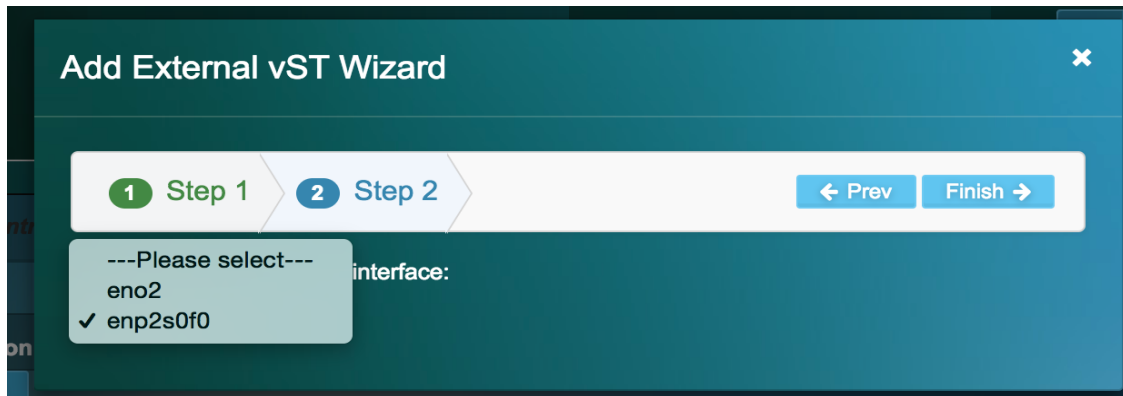
- o   NIC-1 is used for management and has to have IP connectivity to Uila vIC.
- o   NIC-2 is used for monitoring the network feed from the span port.
3. Login to the Uila portal page, go to Settings -> vST Configuration -> External vST Configuration
4. Click on "Add External vST".
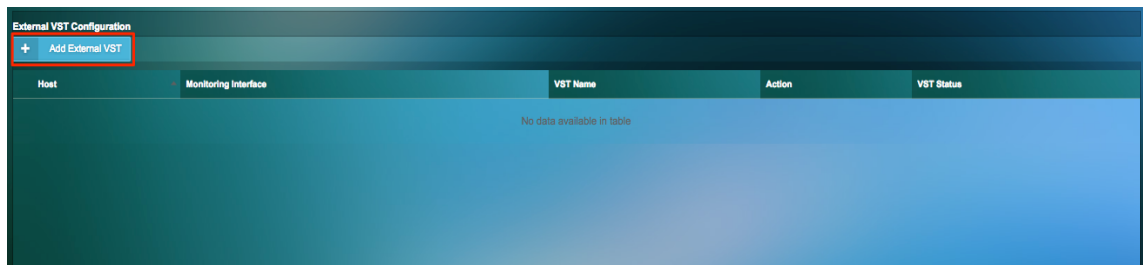


5. Fill SSH credentials in step 1

6. Select the appropriate monitoring interface.



7. Click "Finish" and the vST installation will kick off. The install will take roughly 5 mins. The external vST will show up in the list and turn green.

8. Set up a span port to allow the external vST to sniff physical packets.

## Contact Uila Support

Uila software solutions are designed with ease of installation and simplified maintenance in mind. The Uila team is dedicated to exceeding your expectations, and knows that any downtime is too much in today's competitive world. Our goal is to keep your applications running 24 X 7. We offer a simple and effective support program to meet your needs. Customers who purchased Uila products and under support contract will receive the following benefits:

- Unlimited support via email or phone call
- Free software minor release update
- Free software major release upgrade

Email: support@uila.com
Phone: (408) 819-0775

## About Uila

Uila gives IT infrastructure teams x-ray vision for their data center operations and end user experience. Designed for Private, Public and Hybrid Cloud environments, Uila's Application-Centric Data Center Infrastructure Monitoring and Analytics provide instant visibility into hotspots and bottlenecks in any data center. Uila provides service dependency mapping, full

stack correlation with 1-click root cause analysis and patented deep packet inspection technology that understands over 2,700 application protocols for transactional meta data analysis. Businesses use Uila to align themselves with their IT Operations team and cut time to resolution from days to minutes, keep their application at peak performance at all time and ensure end-user satisfaction to the fullest.