

Installation Guide for Uila uObserve VIC SaaS Uila Deployment

Table of Contents

Introduction	
Scope and Purpose	
Architecture Overview	
Virtual Architecture	2
Getting Started	4
System Requirements	
User Registration	7
Deploy Virtual Information Controller (vIC)	10
Contact Uila Support	16
About Uila	17



Introduction

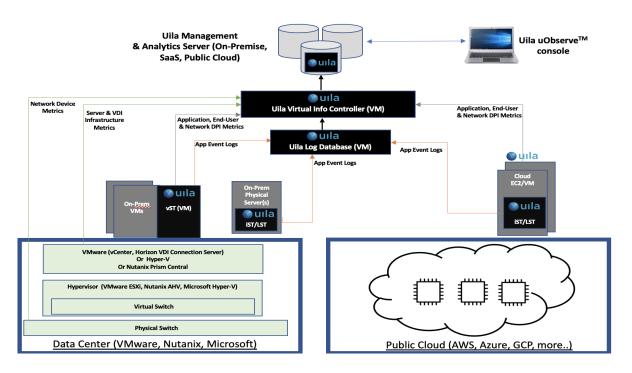
Scope and Purpose

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

It is assumed that the reader has already installed VMware and is familiar with the configurations and operations of VMware.

Architecture Overview

The diagram below shows the Uila Management and Analytics System architecture (UMAS) and its relationship to Virtual Information Controller (vIC) and Uila Virtual Smart Taps (vST).



Virtual Architecture

uObserve[™] consists of a few major components –

Management and Analytics system (UMAS) – The core of the Uila virtual infrastructure
architecture is a big data store and analytics engine that is designed from ground up to
scale-out to accommodate large data center deployments with thousands of servers, to
scale-in to record data in high resolution, maintain historical data while maintaining real
time responsiveness. Built-in redundancy offers high availability, mitigates downtime,



and reduces maintenance overhead. UMAS can be installed in the Private, Public or SaaS Cloud.

The analytics engine is the brain that correlates application to infrastructure performance metric by providing the smarts to pinpoint the infrastructure root cause behind application performance degradation. The trending reports generated from the historical data helps identify infrastructure hotspots and maintains optimal application performance.

- Virtual Information Controller(vIC) The vIC can be installed in either the Private or Public Cloud. In the Private Cloud, Virtual Information Controller (vIC) is the integration conduit to the VMware Horizon VDI infrastructure & Virtualization Management System e.g., VMware vCenter, Microsoft Hyper-V, Nutanix Prism Central or OpenStack Controller. The vIC retrieves your infrastructure configuration as a template to build Uila monitoring domain and to streamline deployment. The vIC collects network, storage and compute performance metrics that are maintained by vCenter (or equivalent from Microsoft, Nutanix, OpenStack) and combines it with the application and network metadata from all deployed vSTs. In the Public Cloud, the vIC collects the Instance & VM level networking, application, compute statistics from the vSTs. In both cases, the vIC securely transmits it to the Uila Management and Analytics System, either on-premise or in the cloud.
- Uila Log Database Server- The Uila Log Database Server can be installed in either the
 Private or Public Cloud. The Uila Log Database Server collects and consolidates logs and
 log statistics from multiple Logging Smart Taps (LST). The Uila uObserve web console
 requests the log data from Uila vIC, which in turn queries the Log Database Server and
 delivers it back to the Uila UMAS server.
- Virtual Smart Tap(vST) vST is deployed at the host as a small footprint guest VM that
 utilizes Deep Packet Inspection (DPI) technology to identify unique applications and its
 attributes. The vST measures application response time and collects network
 performance data. No packet payload is examined or stored, thus removing the risk of
 exposing sensitive data.

In a cloud deployment, the VST, also collects the network and performance metrics from the IST and utilizes the Deep Packet inspection technology to identify applications.

 Instance Smart Tap (IST) – The Uila Instance Smart Tap (iST) is deployed as a plug-in in a distributed manner across the Public Cloud on the VMs or Instances running the



application workload. It collects traffic as well as VM and Instance level Compute statistics and sends it to the vST for Deep Packet Inspection.

Logging Smart Tap (LST) – The Uila Logging Smart Tap (LST) is deployed as a plug-in in a
distributed manner across the Data Center on VMs/Physical Servers and Public Cloud in
the VMs or Instances. It collects logs from the server and/or application and sends it to
the Uila logging server for further analysis.

Getting Started

System Requirements

Always refer to the Uila website for updated system requirements as the first step: https://www.uila.com/products/uila-system-requirements

- Internet Browser for your monitoring console
 - Firefox, Chrome on Windows platform
 - Safari, Firefox, Chrome on OS X platform
 - o Firefox, Chrome on CentOS, Ubuntu Linux platform
- VMware version requirements
 - o vSphere ESXi 5.5 or higher
 - o vCenter Server 5.5 or higher
- VMware® NSX requirement (if Applicable)
 - NSX-V
 - NSX-T™ Data Center
- Uila Virtual Smart Tap (vST) requirements
 - o vST for On-Premise -
 - Installed as a guest VM
 - 1 vCPU (1 Core)
 - 1Gb memory
 - 2Gb Storage



VIC for VMware requirements

- Installed as a guest VM
- 4 vCPU
- Memory:

Small VIC 24 GB RAM allocated (32 GB if using Horizon VDI integration), 12GB RAM reserved, 50GB storage, thin provisioned: <1000 VMs, less than 200 Network Monitoring ports, less than 100 nodes for server monitoring

Medium VIC 32 GB RAM allocated (40 GB if using Horizon VDI integration), 16GB RAM reserved, 100GB storage, thin provisioned: 1000~2000 VMs, 200~400 Network Monitoring ports, 100~200 nodes for server monitoring

Large VIC 48 GB RAM allocated (56 GB if using Horizon VDI integration), 24GB RAM reserved, 200GB storage, thin provisioned: 2000~5000VMs, 400~600 Network Monitoring ports, 200-400 nodes for server monitoring

Proper vCenter access right is required for vIC to collect structural information and CPU, memory and storage metrics from vCenter, make configuration changes, deploy and setup vST VM. You must have one of the two options pre-configured before vIC deployment:

- 1. Full administrative access right (vCenter administrator role), or
- 2. Partial administrative access right with the following table of privileges enabled (checked).

Privilege Categories	Privilege Items
Datastore	Allocate space
	Browse datastore
	Remove file
Global	Cancel task
Host	 Local operations->Create virtual machine
	 Local operations->Delete virtual machine
	 Configuration → Network Configuration
Network	Assign network
Resource	Assign virtual machine to resource pool



•	Modify resource pool
Scheduled task	Create tasks
•	Modify tasks
•	Remove tasks
•	Run task
Virtual machine	Configuration
•	• Guest Operations
•	Interaction
•	Inventory
•	Provisioning
	Service configuration
•	Snapshot management
•	vSphere replication
dvPort group	Create
	Delete
•	Modify
vApp	Add virtual machine
	Assign resource pool
•	• Assign vApp
	• Import

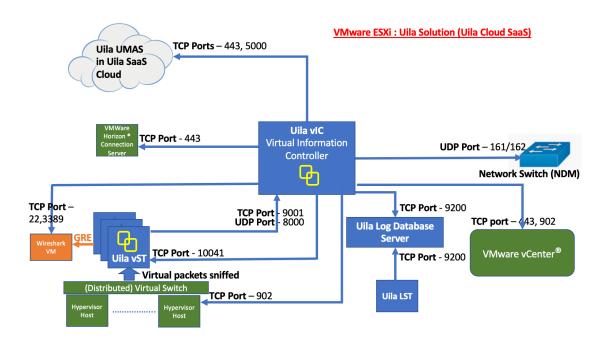
Table 4.2: vCenter access rights table

• Network requirements

- o Pre-allocate one IP address for each of the vST's, which can be either static IP address or allocated via DHCP, prior to deployment
- o Pre-allocate one static IP address for vIC prior to deployment



- o Pre-configure your network to open TCP and UDP ports to allow communications between Uila sub-systems as illustrated in the chart below.
 - o UMAS -
 - If Cloud UMAS is being used, add ugw1s.uila.com/38.99.127.15 as permitted site on the firewall.
 - Pre-allocate one static IP if the on premise UMAS is used.



Network connection overview for Uila SaaS Cloud

User Registration

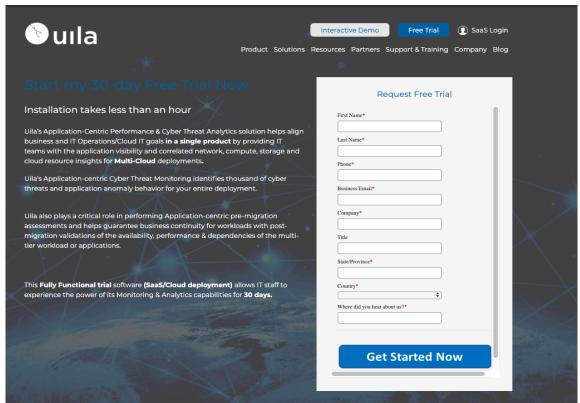
For Uila SaaS deployment, follow these steps to obtain your login ID and password.

- 1. Browse to the Uila Web site www.uila.com
- 2. Click on "Free Trial" located on the top-right corner of the homepage



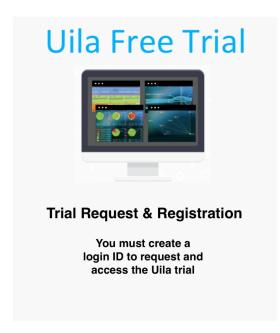


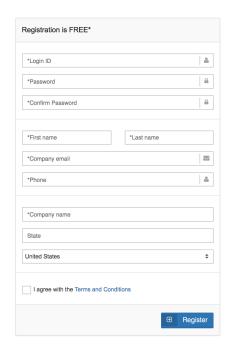
3. Fill out the form and click on "Get Started Now".



After you have spoken to a Uila sales team member and get approval for conducting a trial, you can visit: https://portal.uila.com/register to complete the registration form and receive registration confirmation.





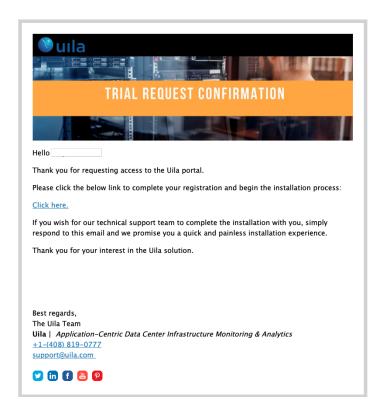


Registration completed!

Thanks for submitting your Uila free trial registration. An email has been sent to your email account. Please check your in-box.

4. Receive registration email with the link for completing the registration and beginning the installation.

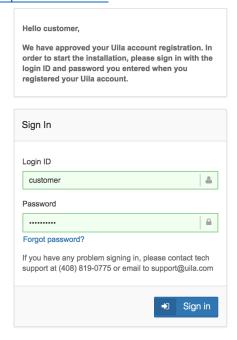




Deploy Virtual Information Controller (vIC)

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

1. Login to Uila Portal – www.portal.uila.com



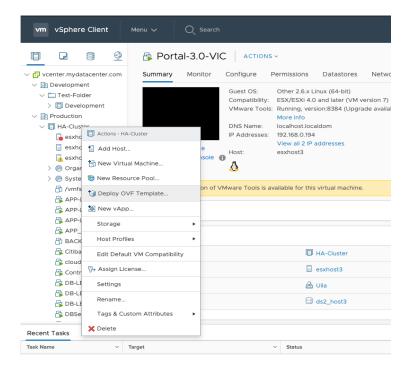


2. Download the VM template for Uila Virtual Information Controller(vIC)

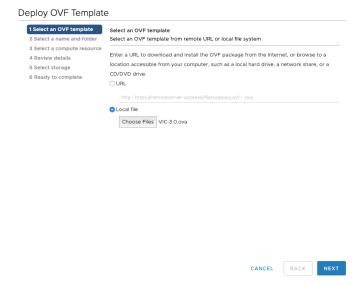


- 3. Login to vCenter
- 4. Deploy vIC.ova in vCenter





5. Browse to locate the vIC.ova file

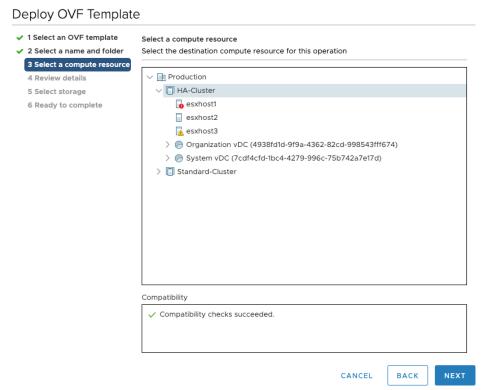


6. Choose name and folder location



Peploy OVF Template ✓ 1 Select a novF template 2 Solect a name and folder 3 Select a compute resource 4 Review details 5 Select storage 6 Ready to complete Select a location for the virtual machine. ✓ ☑ vcenter:mydatacenter.com > ☑ Development > ☑ Production > ☑ VDI

7. Select the Compute Resource and click Next



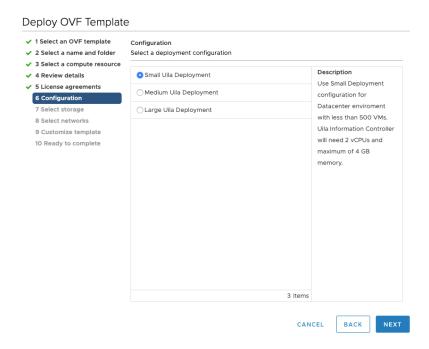
- 8. Review the details of the VIC and click Next
- 9. Accept the EULA and click Next

CANCEL

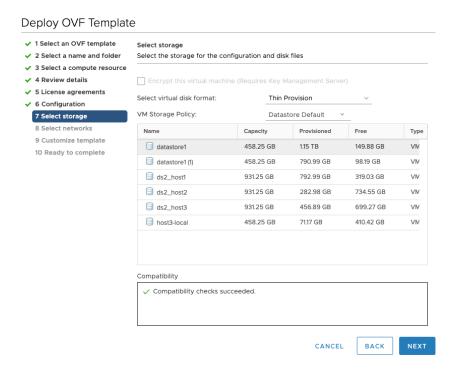
BACK



10. Select Uila deployment configuration, whether small, medium or large depending on the number of VM's in the environment.

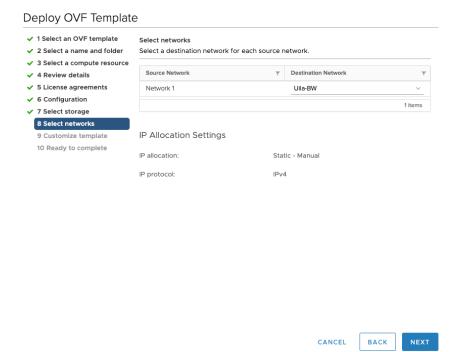


11. Select the datastore for the vIC and select disk format to be thin provisioned for more efficient usage of storage space.

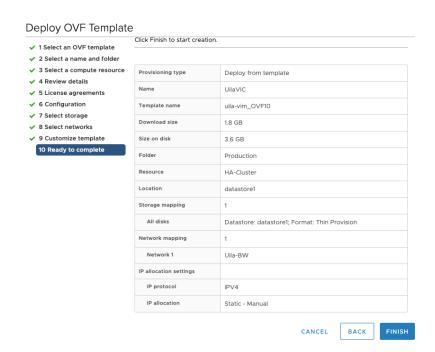




12. Select a network port group where the vIC can communicate with the vST and the UMAS.



13. Review all the settings and click finish.



14. Once the system is deployed, power on the vIC. Depending on the VMware environment this process may take several minutes.



- 15. Once the system is deployed, power on the vIC. Depending on the VMware environment this process may take several minutes.
- 16. Open the remote console to configure the VIC virtual machine
 - i. Press "Y" to agree to the Software License Agreement
 - ii. Go through the setup wizard to setup IP configuration

```
Setup Network Configuration for Interface eth0
Setup DHCP for interface eth0 [y/n]? n
Enter IP address: 192.168.0.50
Enter Subnet mask: 255.255.254.0
Enter Gateway: 192.168.0.1
Enter DNS IP: 192.168.0.20
Enter NTP Server:

Setup Static Network Information:
    IP : 192.168.0.50
    MASK : 255.255.254.0
    GATEWAY: 192.168.0.1
    DNS : 192.168.0.20
    NTP :
Confirm? (y/n):_
```

iii. In case of portal installation, type "y" for portal service

```
Setup Uila Software ...
Is vIC using Uila Portal Service? [y/n]
```

iv. Enter the vCenter login credentials

```
Setup UMware vCenter Login Credentials.
Enter UMware vCenter Login Server: 192.168.0.151
vCenter Login (example@domain.local): administrator@vsphere.local
vCenter Password:
Confirm Password:
Completing the installation. It may take a while ...
```

17. Once you see the login screen, the installation is complete

Now proceed to install the Virtual Smart Tap (vST)

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) 400-3706

About Uila

Uila resolves Complex IT Disruptions for Enterprise Organizations with its Intelligent Full-Stack Observability Platform, that correlates Application and Infrastructure Performance to isolate and remediate issues before business impact. With Uila, IT teams can visualize application workload dependencies across cloud platforms, rightsize infrastructure resources, troubleshoot disruptions for any onsite or remote VDI user due to application/network/infrastructure challenges, plan workload migration strategies for Cloud deployments and use AIOps to streamline troubleshooting and reduce MTTR with remediation actions. And most importantly, this is done WITHOUT any agents. Uila also allows security teams to combat advanced cyber threats, by providing comprehensive application anomaly insights, cyber threats & Data Exfiltration activities. Organizations use Uila to align themselves with their IT teams and cut MTTR from days to minutes to always keep End-User Experience at peak performance & secure, across cloud boundaries.