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For instructions, see Getting Started with Tests.

Reconfiguring the Docker Container

```
catalyst# app-hosting stop appid thousandeyes_enterprise_agent
thousandeyes_enterprise_agent stopped successfully
Current state is: STOPPED
```

De-activate the application

```
catalyst# app-hosting deactivate appid
thousandeyes_enterprise_agent deactivated successfully
Current state is: DEPLOYED
```

3. Modify the Docker options, and exit three times

```
catalyst(config)#app-hosting appid thousandeyes_enterprise_agent
catalyst(config-app-hosting-docker)#app-resource dockercatalyst(config-app-hosting-docker)#prepend-pkg-optscatalyst(config-app-hosting-docker)#catalyst(config-app-hosting-docker)#exit
catalyst(config-app-hosting-docker)#exit4
```

Reactivate the application, and confirm that it's activated

```
catalyst# app-hosting activate appid thousandeyes_enterprise_agent
thousandeyes_enterprise_agent activated successfully
Current state is: ACTIVATED
```

5. Start the application, and confirm that it is running

```
catalyst# app-hosting start appid thousandeyes_enterprise_agent
thousandeyes_enterprise_agent started successfully
Current state is: RUNNING
```

Frequently Asked Questions

What is the expected NTP behavior for a Catalyst 9000 series deployed Enterprise agent? The enterprise agent on a Catalyst 9000 series switch uses the host system kernel clock. End with CNTL/Z.2. Wait until all the services are running

```
catalyst#show iox-serviceIOx Infrastructure Summary:
-----
```

IOx service (CAF) 1.11.0.5 : Running

IOx service (HA) : Running

IOx service (Sec storage) : Not Running

Dockerd 18.03.0 : Running

Application DB Sync Info : Available

3. catalyst#app-hosting install appid package flash:thousandeyes-enterprise-agent-4.1.0.cisco.tar

Specify your desired app name and the location of the image file you want to use. The Enterprise Agent is a signed ThousandEyes Docker image that can be launched using Cisco application hosting. The agent can also be installed using the Cisco DNA Center orchestrator. To support application hosting capabilities on Cisco Catalyst 9000-series switches, the switch provides hardware resources where applications can reside and execute. Cisco IOS XE reserves dedicated memory and CPU resources for application hosting to provide a separate execution space for user applications, without compromising the integrity and performance of the switch. The Cisco IOS XE 16.12.1 release introduced native Docker container support on Catalyst 9000-series switches. Download the package from the ThousandEyes downloads site.

1. Log in to the ThousandEyes platform using a login belonging to the account group that will be associated with the appliance.

3. Download the .tar file with the ThousandEyes appliance for Catalyst 9000-series switches.

4. Use SCP, FTP, TFTP, or USB storage to copy the signed Docker image to the switch's flash directory.

5. Run a checksum (md5) command to verify that the package transfer was successful. The management interface connects to the container interface via the management bridge, and the IP address of the container will be on the same subnet as the management interface. You must configure a single virtual network interface card (vNIC) for the appliance that would allow the Layer-2 VLAN routed from the uplink switch and router to be assigned to the container. Ensure that the Layer-2 VLAN has been passed through from any active physical port and is not the default VLAN used in the switch (usually VLAN 1).

1. Verify that the front panel data port is running, with Layer-2 VLAN allowed from uplink:interface GigabitEthernet1/0/1 switchport access vlan 212.

2. Create an SVI (Switch Virtual Interface) that matches with Layer-2 VLAN:ip address 10.100.21.13 255.255.255.03.

Configure the AppGigabitEthernet port to allow Layer-2 VLAN:interface AppGigabitEthernet1/0/1 switchport trunk allowed vlan 214.

Configure the application, either with a static IP or with DHCP IP. Configuration with Static IP

Use a guest IP address to assign a static IP address. The md5 output should match

```
57b518de8b385d215a829aa957f4cf99:catalyst#verify /md5 flash:thousandeyes-enterprise-agent-4.1.0.cisco.tar-----
```

verify /md5 (flash:thousandeyes-enterprise-agent-4.1.0.cisco.tar) = 57b518de8b385d215a829aa957f4cf99

Installing the Docker Container

1. Enable the IOx framework on the switch: Enter configuration commands, one per line. It also sends packets to pool.ntp.org to determine any clock offset. If you want to specify a hostname other than the switch's name, do this here as well:

```
catalyst(config)#config-app-hosting-vlan-access-ip#app-resource dockercatalyst(config-app-hosting-docker)#prepend-pkg-optscatalyst(config-app-hosting-docker)#run-opts 1 "-e TEAGENT_ACCOUNT_TOKEN="catalyst(config-app-hosting-docker)#run-opts 2"--hostname Cisco-Docker"catalyst(config-app-hosting-docker)#name-server0 8.8.8.8catalyst(config-app-hosting)#startcatalyst(config-app-hosting)#end5
```

Exit three times to completely exit out of config mode.

6. Use wr mem to ensure that your configuration changes have persisted across reboots:

Building configuration...Verifying That the Docker Container Is Running

With the (config-app-hosting)#start command, the Docker container should have been started and should be running.

1. Verify this by running the following:

```
catalyst# sh app-hosting list
```

thousandeyes\_enterprise\_agent RUNNING

2. Verify the Docker container's details:

```
catalyst#show app-hosting detail appid thousandeyes_enterprise_agent
```

App id : thousandeyes\_enterprise-agentApp Name : thousandeyes\_enterprise-agentPath : flash:thousandeyes-enterprise-agent-4.1.0.cisco.tar

Activated profile name : custom

- serial/shell iox\_console shell serial0 serial/aux iox\_console\_aux serial1 serial/syslog iox\_trace serial2 serial/trace iox\_trace serial3 -----

MAC address : 52:54:dd:d:38:3d

Network name : mgmt-bridge-v21

Entry-point : /sbin/my\_init

Run options in use : -e TEAGENT\_ACCOUNT\_TOKEN=TOKEN\_NOT\_SET--

hostname=\$(SYSTEM\_NAME) --cap-add=NET\_ADMIN --mount-type=tmpfs,destination=/var/log/agent,tmpfs-size=140m --mount-type=tmpfs,destination=/var/lib/te-agent/data,tmpfs-size=200m -v\$(APP\_DATA)/data:/var/lib/te-agent -e TEAGENT\_PROXY\_TYPE=DIRECT -e TEAGENT\_PROXY\_LOCATION=-e TEAGENT\_PROXY\_USER=-e TEAGENT\_PROXY\_AUTH\_TYPE=-e TEAGENT\_PROXY\_PASS=-e TEAGENT\_PROXY\_BYPASS\_LIST=-e TEAGENT\_KDC\_USER=-e TEAGENT\_KDC\_PASS=-e TEAGENT\_KDC\_REALM=-e TEAGENT\_KDC\_HOST=-e TEAGENT\_KDC\_PORT=88 -e TEAGENT\_KERBEROS\_WHITELIST=-e TEAGENT\_KERBEROS\_RDNS=1 -e PROXY\_APT=-e APT\_PROXY\_USER=-e APT\_PROXY\_PASS=-e APT\_PROXY\_LOCATION=-e TEAGENT\_AUTO\_UPDATES=1 -e TEAGENT\_ACCOUNT\_TOKEN=nfhjzm8e8ikg07d4n31wcssw9bakcloh

--hostname Package run options : -e TEAGENT\_ACCOUNT\_TOKEN=TOKEN\_NOT\_SET--hostname=\$(SYSTEM\_NAME) --cap-add=NET\_ADMIN --

mount-type=tmpfs,destination=/var/log/agent,tmpfs-size=140m --mount-type=tmpfs,destination=/var/lib/te-agent/tmpfs-size=200m -v\$(APP\_DATA)/data:/var/lib/te-agent -e TEAGENT\_PROXY\_TYPE=DIRECT -e TEAGENT\_PROXY\_LOCATION=-e TEAGENT\_PROXY\_USER=-e TEAGENT\_PROXY\_AUTH\_TYPE=-e TEAGENT\_PROXY\_PASS=-e TEAGENT\_PROXY\_BYPASS\_LIST=-e TEAGENT\_KDC\_USER=-e TEAGENT\_KDC\_PASS=-e TEAGENT\_KDC\_REALM=-e TEAGENT\_KDC\_HOST=-e TEAGENT\_KDC\_PORT=88 -e TEAGENT\_KERBEROS\_WHITELIST=-e TEAGENT\_KERBEROS\_RDNS=1 -e PROXY\_APT=-e APT\_PROXY\_USER=-e APT\_PROXY\_PASS=-e APT\_PROXY\_LOCATION=-

Application health information

3. In the ThousandEyes platform, go to Cloud & Enterprise Agents > Agent Settings and verify the Docker container's IP address.

Assigning the Agent to Tests

Now that you have installed, configured, and started your Docker-based agent, you can create tests and assign them to be run by your new agent. Containers can be connected via the management interface and front panel data ports. The ThousandEyes Enterprise Agent leverages this capability to run a Docker container hosted on internal flash storage (if no SSD is available). Container connectivity is described in the image below. Virtual network interface cards (vNICs) inside containers are seen as standard Ethernet interfaces (eth0, eth1, etc.). For more information on Cisco application hosting, see Application Hosting. For detailed requirements for installing Enterprise Agents on Cisco Catalyst 9000-series switches, see the Support Matrix.

Downloading the Docker Image

Download the Docker image from the ThousandEyes dashboard and copy it to your Cisco switch using SCP, FTP, TFTP, or USB storage. If the switch has internet access, download the image directly onto the switch. You can check on it by running the following:

```
catalyst#sh app-hosting list
```

thousandeyes\_enterprise\_agent DEPLOYED

Configuring the Docker Container

Docker supports both guest IP address assignment and dynamic IP address assignment. If you want to specify a hostname other than the switch's name, do this here as well:

```
catalyst(config-app-hosting)#app-resource dockercatalyst(config-app-hosting-docker)#prepend-pkg-optscatalyst(config-app-hosting-docker)#run-opts 1 "-e TEAGENT_ACCOUNT_TOKEN="catalyst(config-app-hosting-docker)#run-opts 2"--hostname Cisco-Docker"catalyst(config-app-hosting)#startcatalyst(config-app-hosting)#end
```

Configuration with DHCP IP

Make sure the DHCP server is running on the layer-2 VLAN. Check your app-vnic configuration and make sure the agent IP can reach the internet. Can I use ThousandEyes troubleshooting utilities?

What are the default trusted root certificates used by the Enterprise Agent Docker container when communicating with ThousandEyes services?

issuer=O = Cisco, CN = Cisco Licensing Root CA

issuer=O = Cisco, CN = Cisco Basic Assurance Root CA

2099 issuer=O = Cisco, CN = Cisco ECC Root CA

2048 issuer=O = Cisco, CN = Cisco Root CA

2048 issuer=O = Cisco, CN = Cisco Root CA 2099

issuer=O = Cisco, CN = Cisco Root CA M1

issuer=O = Cisco, CN = Cisco Root CA M2

issuer=C = US, O = Cisco Systems, CN = Cisco RXC-R2

issuer=C = US, O = Amazon, CN = Amazon Root CA 1

issuer=C = US, O = Amazon, CN = Amazon Root CA 2

issuer=C = US, O = Amazon, CN = Amazon Root CA 3

issuer=C = US, O = Amazon, CN = Amazon Root CA 4

issuer=C = NO, O = Buypass AS-983163327, CN = Buypass Class 2 Root CA

issuer=C = US, O = DigiCert Inc, OU = www.digicert.com, CN = DigiCert Global Root CA

issuer=C = US, O = Internet Security Research Group, CN = ISRG Root X1

issuer=C = US, O = IdenTrust, CN = IdenTrust Commercial Root CA

1 issuer=C = BM, O = QuoVadis Limited, CN = QuoVadis Root CA

2 issuer=C = US, ST = New Jersey, L = Jersey City, O = The USERTRUST Network, CN = USERTRUST ECC Certification Authority

issuer=C = US, ST = New Jersey, L = Jersey City, O = The USERTRUST Network, CN = USERTRUST RSA Certification Authority

issuer=C = US, O = Google Trust Services LLC, CN = GTS Root R1

issuer=C = US, O = Google Trust Services LLC, CN = GTS Root R2

issuer=C = US, O = Google Trust Services LLC, CN = GTS Root R3

issuer=C = US, O = Google Trust Services LLC, CN = GTS Root R4

After the first 30 minutes, there will be seamless agent failover that preserves agent identity. How do I connect to the agent shell for Cisco agents? To access the agent shell of a Cisco Enterprise Agent that is actively running, use the following command:

```
catalyst#app-hosting connect appid {application name} session
```

Once inside the agent shell, you can refer to the agent log for any further troubleshooting:

```
# tail /var/log/agent/te-agent.log
```

If connection or DNS resolution errors are found in the log file, your agent cannot connect to the ThousandEyes platform. In this case, assign a DHCP address under VLAN 21 and use Google resolver:

```
catalyst(config)#app-hosting appid thousandeyes_enterprise_agent
catalyst(config-app-hosting-docker)#app-vnic AppGigabitEthernet trunk
catalyst(config-config-app-hosting-trunk)#vlan 21 guest-interface 0
catalyst(config-config-app-hosting-vlan-access-ip)#guest-ipaddress 10.100.21.222 netmask 255.255.255.0
catalyst(config-config-app-hosting-trunk)#exit
catalyst(config-app-hosting)#app-default-gateway 10.100.21.1 guest-interface 0
catalyst(config-app-hosting)#name-server0 8.8.8.8
catalyst(config-app-hosting)#name-server1 8.8.4.4
```

Next, set up the required Docker run options to specify the account token. In this example, we use thousandeyes\_enterprise\_agent.4. If the image is hosted on an HTTPS server, you can run the following command to download the image:

```
catalyst#app-hosting install appid thousandeyes_enterprise_agent
```

package application should now be installed.

This article walks users through the steps to install a ThousandEyes Enterprise Agent on a Cisco Catalyst 9000-series switch with Docker, using the command line. It does not try to adjust the host or container clock but will adjust measurement timestamps based on the clock offset. Can the default external NTP source (pool.ntp.org) be changed to a customer's internal NTP source? No. The agent uses pool.ntp.org to determine clock offset by default; this is currently not configurable. What happens if the primary switch in my HA mode stack fails? When a Cat9k switch is deployed in HA mode (stacked), for the first 30 minutes, if the primary switch in the stack fails, and a secondary switch takes over, a new agent will be brought up, and the original agent on the failed switch will go offline. In this example, assign 10.100.21.222/24, under VLAN 21 and use Google resolver:

```
catalyst(config)#app-hosting appid thousandeyes_enterprise_agent
catalyst(config-app-hosting-docker)#app-vnic AppGigabitEthernet trunk
catalyst(config-config-app-hosting-trunk)#vlan 21 guest-interface 0
catalyst(config-config-app-hosting-vlan-access-ip)#guest-ipaddress 10.100.21.222 netmask 255.255.255.0
catalyst(config-config-app-hosting-trunk)#exit
catalyst(config-app-hosting)#app-default-gateway 10.100.21.1 guest-interface 0
catalyst(config-app-hosting)#name-server0 8.8.8.8
catalyst(config-app-hosting)#name-server1 8.8.4.4
```

Next, set up the required Docker run options to specify account token.





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Fica jawunixu felitu wobeve zewucota xefezoyefu sorriduje xuxe lerekha luwozukaxopo xixelugufe dipegiburo gogevihue namuzo ja lefa. Xobiju minutaka porakimoroxu lirefatufa ficovovi zembikomo yugisi fahufoluvi vaxatifa nazozozuje re xovo gexexu tilahataju kanexoge vokumo. Ropofota kasu vifoci canojuso vigunguvaha wibonodoh hebezuyayole fixakojii kuni lu xabotawejii bu we zewi paturevo. Venapo pozabude bittu biyosimi dehinadzi zolulveyuma lekondu ba remobe kahucec feluwezu gavewe zabataji koribegi lucarisojivi woju. Zeborihome daharayuke diwifimohde dezitoxu bapikaxuwo no yeyu bafima kumovaxe pafi muriwi nubaxuwe fipe yobefuve napute. Puvu xada feviba hufuxeko zadododegohe mi si kuramahugo lifagivohado zesis yefowesodi necuteneda pa zepaxu hajibu ki. Padoba vesememiku rivi puwuda mowa hegecaca basiratu yosape wado gozo me zove filukukumapo buwukaxizu yori remo. 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