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Summary

The purpose of this guide is to provide a detailed overview of how to enable Qualys Context Extended Detection and Response (XDR). Qualys splits the enabling process over several phases. This guide covers the activities on Day 0, during which an appliance is deployed, and a collector is set up. This also covers information to set up the Qualys Windows Cloud Agent for XDR.

Day 0 – Deployment

On Day 0, we will walk you through the steps to:

1. Deploy an appliance
2. Set up a collector
3. Prepare Qualys Cloud Agent for XDR
Appliance Deployment

Deploying an appliance involves 5 stages:
1. Download the appliance image
2. Deploy and verify the appliance
3. Generate the registration code
4. Apply the registration code
5. Verify the activation

To know more information on the appliance size requirements, refer to the Appliance – Sizing calculations section in the Online Help.

Stage 1: Download the Appliance Image

Qualys appliance image is available for download right from the Qualys Context XDR UI. Follow these steps to download the image:

1. From the module picker, select XDR to access the Extended Detection and Response (XDR) module within the Qualys Cloud Platform.

2. On the Qualys Context XDR UI, click Configuration.

3. Click the drop-down box near Configuration Overview.

4. On the drop-down menu, select the option for Data Collection.
5. Next, click **Appliances**.

6. On the Appliances tab, click the **Download Image** button to view available links to download the image. You can use the downloaded image to create a VM.

---

**Stage 2: Deploy and Verify the Appliance**

It is imperative to deploy the appliance within your environment such that there is network connectivity between the log sources and the appliance and between the appliance and the Qualys Cloud platform. See Appendix A for a few network diagrams on the recommended appliance deployment.

**Note**: If needed, consult your Solutions Architect for assistance.

Follow these steps to deploy the appliance:

1. Deploy the image you downloaded. After deploying, the appliance may need 5-10 minutes to boot up the first time. After the appliance fully boots, console into the virtual machine to view this screen:
2. By default, the appliance tries to automatically configure via DHCP. To verify the IP address, select Info to view the following screen:

![DHCP Configuration Screen]

**Note:** XDR only supports a static IP address. If you need DHCP, contact Technical Account Manager (TAM).

3. To assign a static IP address, return to the main menu and Select **System Settings**.

![System Configuration Menu]

4. On the System Configuration menu, Select **Network Settings**.

![Network Settings Menu]
5. On the Network Configuration menu, Select **Network Interface Settings**. If required, define specific DNS settings and proxy information.

![Network Configuration Menu](image)

6. On the Network interface Configuration menu, Select **Static**.

![Network Interface Configuration](image)

**Note:** XDR only supports a static IP address. If you need DHCP, contact Technical Account Manager (TAM).

7. Enter the IP address and Gateway to configure the interface that conforms to the virtual network/switch where the virtual machine image is deployed.

![IP Configuration](image)
8. Once the network is successfully configured, return to the main menu and see if the Registered status is shown as **Appliance is registered with Qualys**.

![Configuration](image1.png)

9. Also, if the network is successfully configured, QAG Status should show as **Connected** on the Info screen under the **General information** of main menu.

![General information](image2.png)

The initial stages of the appliance setup are considered as verified when the QAG Status is Connected. You can now proceed to generate an activation code from the XDR UI.
Stage 3: Generate Activation Code

After you have deployed an appliance, you need to bind it with the Qualys Cloud Platform. Qualys uses an activation code for this purpose.

Follow these steps to generate an activation code:

1. On the Qualys Cloud Platform, under XDR > Configuration > Data Collection > Appliance, click New Appliance.

2. Enter the Appliance Name, Description, and Location details you want to use for the appliance and click Save.
3. An Appliance registration code is generated when the appliance is saved. This registration code is required in the Apply Activation Code section.

The appliance is visible on the Appliances tab with the **Unregistered** status.

**Stage 4: Apply Activation Code**

To bind the virtual machine appliance deployed in the Deploy and Verify the Application section with the Qualys Cloud Platform, you need to register the appliance with the registration code generated in stage 3.

Follow these steps to register your appliance:

1. Access the appliance deployed and verified in the Deploy and Verify the Application section via the console.
2. On the Configuration screen, select **Registration**.
3. Next, enter the registration code generated in the Generate Registration Code section and select **OK**.

**TIP**: Some consoles do not allow copy-paste. You might have to manually type in the registration code on such consoles.

**Stage 5: Verify Activation**

The final step in deploying an appliance is verifying the deployment. To verify the deployment, on the Qualys UI, navigate to **Configuration > Data Collection > Appliance**. The appliance you deployed should be displayed with the status as **Active**.

If the status does not update or continues to show 'Unregistered' after 10 minutes, contact your Solutions Architect for assistance.
Collector Deployment

After the new application is deployed, you can deploy and prepare log collectors for ingestion to the Qualys Context XDR Platform. Depending on your initial scope, you can deploy a syslog collector and/or perform Windows Agent activation (WLC logging profile will be on Day 1).

**IMPORTANT:** To continue, validate your XDR appliance is successfully registered and the status appears as **Active**.

You can deploy the following collectors:
- Syslog Collector
- Active Directory Collector

**Syslog Collector**

Follow these steps to configure a Syslog collector:

1. From the Qualys Context XDR UI, click **Configuration**.

2. From the **Configuration Overview** menu, select **Data Collection**.

3. From the secondary navigation bar, select **Collectors**.
4. Next, click the **New collector** button.

5. Enter a **Name** and **Description** for the collector.
   In our example, we chose a naming convention that will quickly give us the information.

6. Next, from the **Type** dropdown list, choose **Syslog**.

7. The **Appliance** drop-down lists all the active appliances you have already deployed. Select the appliance you want to deploy this Syslog collector on.
8. When you set the Type to SYSLOG, additional details will open up. Define the protocol and port number you want the collector to listen on and then click **Save**.

9. After a few minutes, when the collector binds successfully, the collector status appears as **Active** under the Collectors tab.

If the status does not show Active, try the following:
- Recheck the parameters and verify the credentials.
- Attempt configuring the collector on a different port.

If the status does not change to Active, contact your Qualys Technical Account Manager (TAM) or Solution Architect. You can also contact Qualys Support to resolve your issue.
Active Directory Collector

An Active Directory collector allows you to import your organization’s user directory and user attributes into Qualys Context XDR. XDR uses this user data to enrich data from other log sources.

Follow these steps to configure an Active Directory collector:

1. From the Qualys Context XDR UI, click **Configuration**.

2. From the **Configuration Overview** menu, select **Data Collection**.

3. From the secondary navigation bar, select **Collectors**.

4. Next, click the **New collector** button.
5. Enter a **Name** and **Description** for the collector.

![Collector Details](image1)

7. The **Appliance** drop-down lists all the active appliances you have already deployed. Select the appliance you want to deploy this Active Directory collector on.

8. After selecting the appliance, define the heartbeat interval for this collector.

   **NOTE**: Qualys recommends a heartbeat interval of 5m.

![Collector Details](image2)
9. When you set the Type to AD, additional details will open up. You can now choose to configure this collector as **LDAP** or **LDAPS**.

**A. LDAP**

Follow these steps to configure your collector as LDAP:

a) Define the **Host** and **Port** for this collector.

b) Next, configure the **BindDN** and enter the password.

c) You can then define the refresh frequency in minutes. 
**NOTE:** Qualys recommends a refresh frequency of 1440 minutes.

d) Next, add the base context for this collector.

e) Finally, define the filter you want to set for this collector. 
**NOTE:** Qualys recommends this filter – (&(objectCategory=person)(objectClass=user))

**B. LDAPS**

Follow these steps to configure this collector as LDAPS:
b) Drag and drop or browse and select your certificate to attach it.

c) Next, add the base context for this collector.

d) You can then define the refresh frequency in minutes.

   **NOTE**: Qualys recommends a refresh frequency of 1440 minutes.

e) Next, configure the **BindDN** and enter the password.

f) Now, define the **Host** and **Port** for this collector.

   **NOTE**: The port is typically set as 636.

g) Finally, define the filter you want to set for this collector.

   **NOTE**: Qualys recommends this filter – `(&(objectCategory=person)(objectClass=user))`. 
10. Finally, click **Save** to configure your Active Directory collector.

After a few minutes, when the collector binds successfully, the collector status appears as **Active** under the Collectors tab.

If the status does not show Active, try the following:

- Recheck the parameters and verify the credentials.
- Verify the connection between the appliance and the directory host.
- If you are trying to configure your collector using LDAPS, ensure your Active Directory server is set up to allow LDAPS.
- Attempt configuring the collector on port 389 instead of 636.
- Ensure you have used FQDN or IP address to reduce name resolution errors.

After trying these steps, if the status does not change to Active, contact your Qualys Technical Account Manager (TAM) or Solution Architect. You can also contact Qualys Support to resolve your issue.
Windows Agent Preparation

Qualys Context XDR allows you to leverage existing Qualys Cloud Agents (Windows only) to collect event logs from assets on which agents are deployed. You can also deploy fresh agents and configure them to collect logs for XDR.

The Windows Cloud Agents used for Extended Detection and Response (XDR) must be assigned a Configuration Profile with XDR enabled. The Windows Cloud Agent must also be activated for XDR (see ‘Existing Agent’ below).

Install New Agent

For new Windows hosts without an existing Qualys Cloud Agent, refer the Qualys Cloud Agent Getting Started Guide for details.

Existing Agent

For Windows hosts with an existing Qualys Cloud Agent installed, first enable Extended Detection and Response (XDR) within the correct Configuration Profile and then activate the XDR license for each Cloud Agent to support XDR.

Enable XDR via a Configuration Profile

Before collecting event logs from assets using the Windows Cloud Agent, you first need to enable XDR for these agents by either updating an existing configuration profile or by creating a new configuration profile.

Follow these steps to enable XDR through a configuration profile:

1. Navigate to Cloud Agent module within Qualys Cloud Platform and move to the Agent Management tab.

2. Next, navigate to the Configuration Profile tab.
3. Choose an existing Configuration Profile (should already be assigned to the hosts) or create a new Configuration Profile.

4. For the Configuration Profile selected, click **Edit** from the **Actions** menu.

5. Scroll to the section for XDR and toggle the slider to **Enable XDR module for this profile** and click **Save**.

**NOTE**: When selecting a configuration profile, ensure the profile is assigned to the correct hosts. You can view and modify the hosts assigned to the profile, navigate to the **Assign Hosts** tab from the left pane of the Configuration Profile pop-up.

All hosts using this configuration profile are now enabled for XDR.
Activate Cloud Agents for XDR

After you have enabled XDR via the configuration profile, ensure that your agents are activated for XDR.

Follow these steps to activate the Windows Cloud Agents for XDR:

1. Navigate to the Agent Management tab of the Cloud Agent.

2. On the Agents sub-tab, search for the configuration profile that you enabled XDR on. This displays the Agents assigned to this configuration profile. For example, we search for the configuration profile named 'DemoProfile'.
3. Select all agents using this configuration profile and click the **Actions** menu. Next, click the **Activate for FIM or EDR or PM or XDR** option.

4. On the **Activate Agents** pop-up, toggle the slider to activate the agent for XDR and click **Activate**.
5. Finally, after a few minutes, XDR is listed against all the agents you had selected.

![Agent Management Screen](image)

**What’s Next**

Contact your Solution Architect for details on ‘Day 1 – Data Collection’.
Appendix A – Appliance Deployment

Virtual Machine Deployment

Single-Site
## Appendix B - Windows Cloud Agent Requirements

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<th>Architecture</th>
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<td>Microsoft Windows 10 Pro</td>
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<tr>
<td>Microsoft Windows 8</td>
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</tr>
<tr>
<td>Microsoft Windows Server 2019</td>
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<td>Microsoft Windows 10 Enterprise</td>
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<td>Microsoft Windows Server 2012 R2</td>
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<tr>
<td>Microsoft Windows 7 Professional</td>
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<td>Microsoft Windows Vista</td>
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<td>Microsoft Windows 7 Professional</td>
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<td>Microsoft Windows 10 Enterprise</td>
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<td>Win Vista</td>
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<tr>
<td>Microsoft Windows Server 2016</td>
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