

Installing and Configuring IBM QRadar with WinCollect for Log Collection

1. Introduction

IBM QRadar is a powerful SIEM (Security Information and Event Management) solution used to centralize and analyze security logs from various systems. This report documents the steps taken to install QRadar Community Edition (CE) on a virtual machine hosted on an Ubuntu machine and to set up WinCollect on a Windows machine to forward logs to QRadar for analysis.

2. Lab Requirements

Hardware

- Ubuntu machine with VMware Workstation installed
- Windows 10/11 or Windows Server machine

Software

- IBM QRadar Community Edition OVA file
- WinCollect Agent Installer

3. Installing QRadar CE on Ubuntu (via VM)

Step 1: Download QRadar CE

- Navigate to IBM Website
- Download the OVA image for QRadar CE

Step 2: Deploy the OVA

- Import the OVA into VMware
- Allocate the following resources:
 - RAM: 16 GB
 - CPU: 4 cores
 - Disk: 250 GB

Step 3: Initial Setup

- Start the VM and login using:
 - Username: root
 - Password: sword2025

```
CentOS Linux 7 (Core)
Kernel 3.10.0-1062.4.1.el7.x86_64 on an x86_64

localhost login: root
You are required to change your password immediately (root enforced)
New password:
Retype new password:
[root@localhost ~]# ls
anaconda-ks.cfg  setup
[root@localhost ~]# _
```

- Run the configuration script:
- /opt/qradar/support/all_servers.sh
- Access the QRadar web interface at [https://<192.168.1.11>](https://192.168.1.11)
- Login with:
 - Username: admin
 - Password: sword2025
 - Entering new password
 - Sword2025@

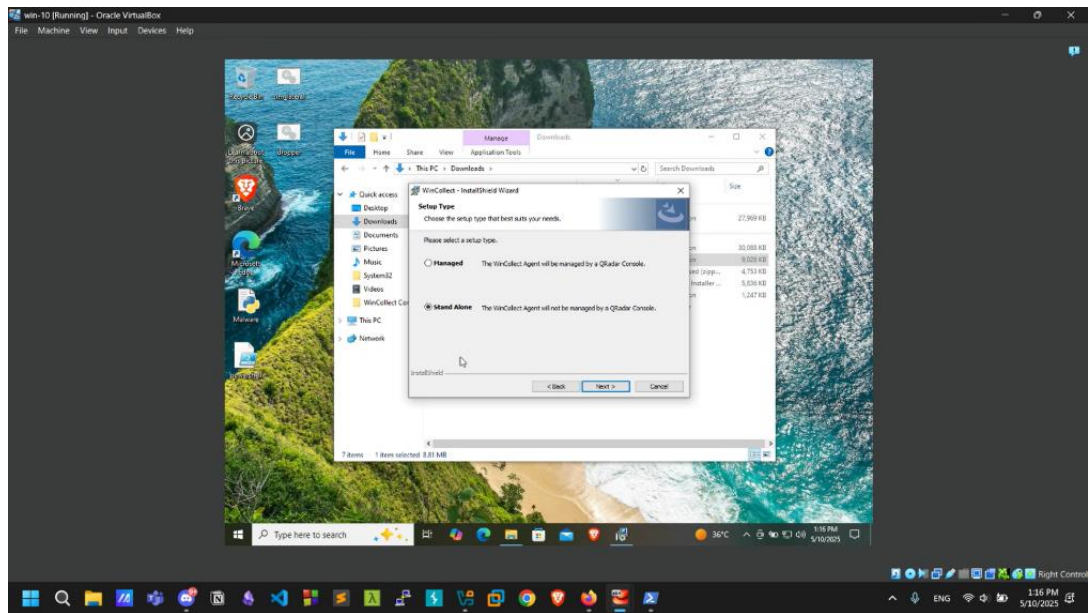
4. Installing WinCollect and Wincollect Stand alone Patch installer on Windows

Step 1: Download the WinCollect Agent and The patch installer

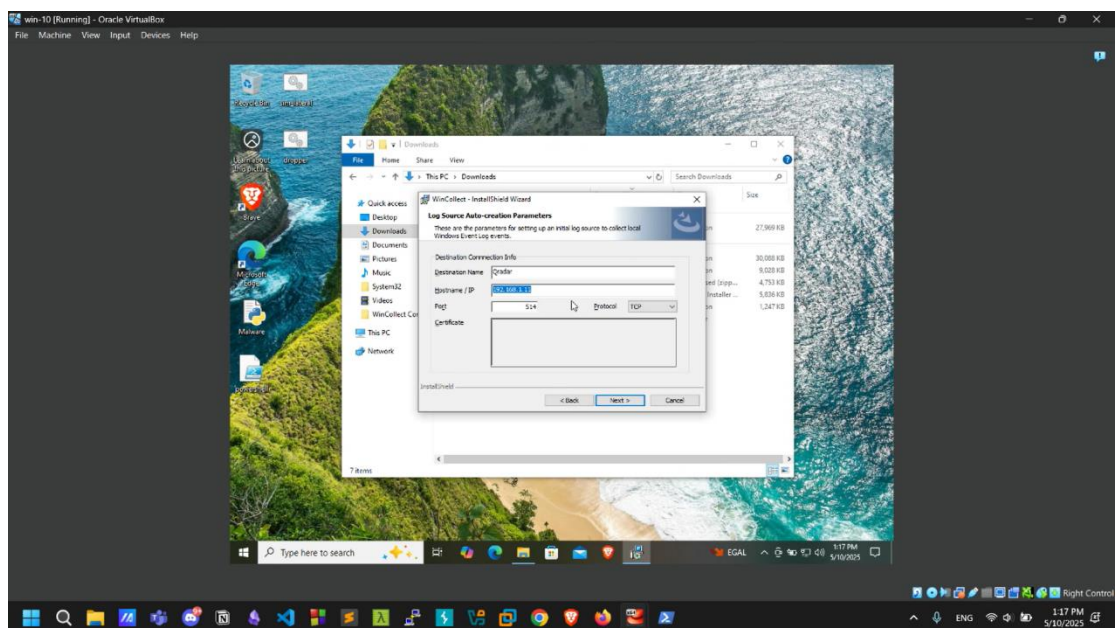
- From the QRadar GUI: Admin > WinCollect > Download Agent
- Alternatively, download from IBM Fix Central (requires IBM ID)

Step 2: Install WinCollect

- Run the installer on the Windows machine
- Choose installation type:
 - Managed (for direct configuration from QRadar)
 - Stand-alone (for manual configuration)

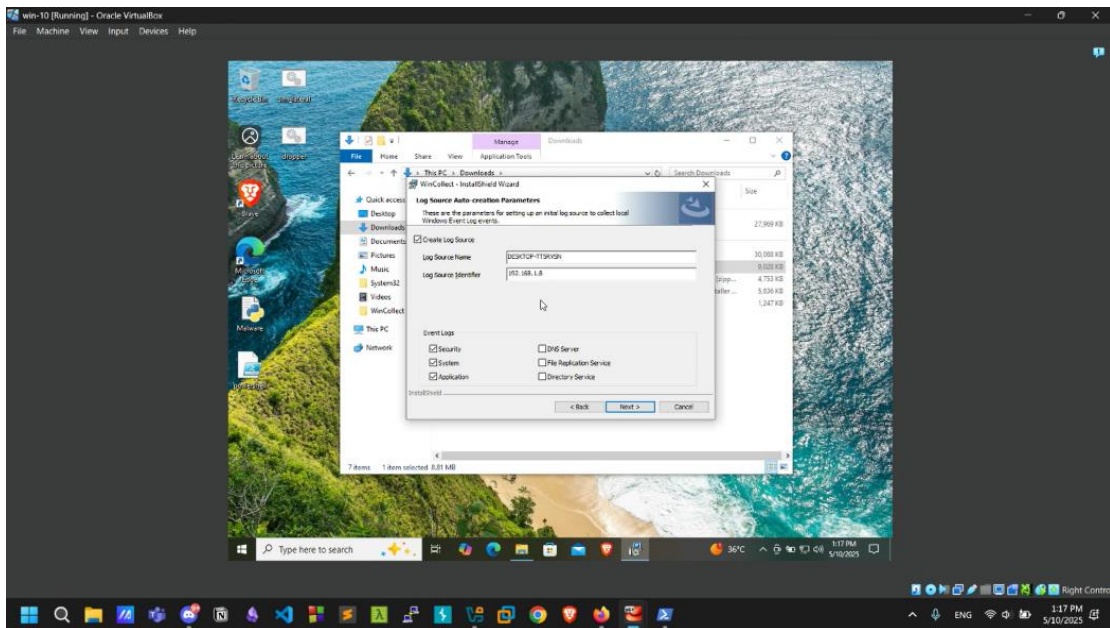


- Input the QRadar IP address when prompted

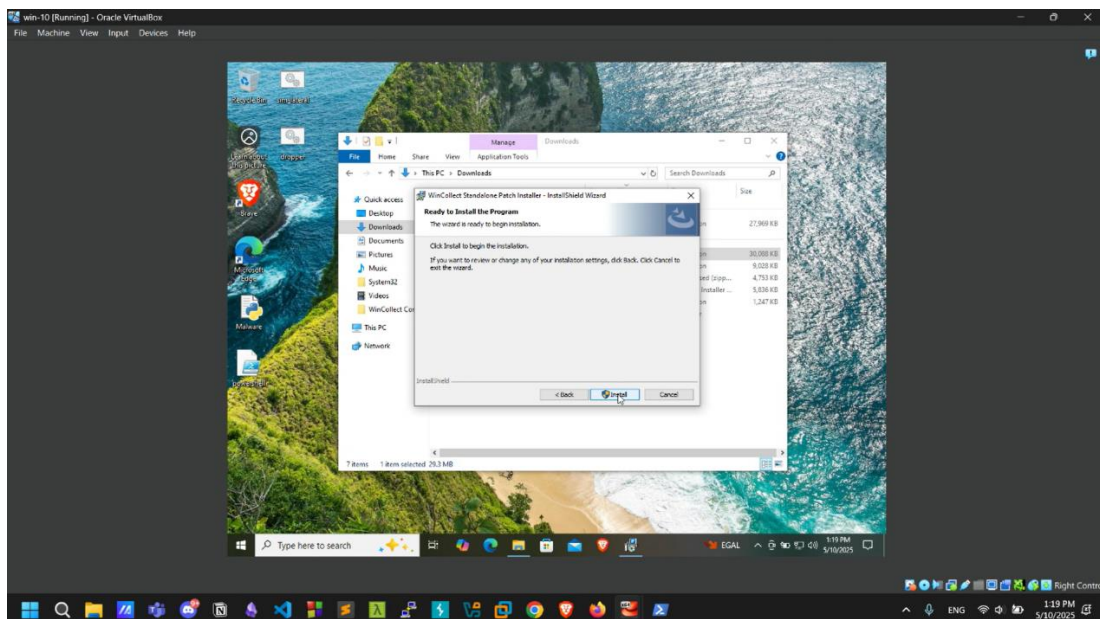


Step 3: Configure Event Log Sources

- Choose which logs to forward:
 - Security
 - System
 - Application



- Save configuration and complete installation



5. Configuring QRadar to Receive Logs

Step 1: Add a New Log Source

- Navigate to Admin > Log Sources > Add
- Enter the following:
 - Log Source Type: WinCollect
 - Protocol: Syslog
 - Log Source Identifier: Hostname or IP of the Windows machine
- Enable Auto Detection if desired
- Save the new log source

Edit a log source

Note that the connection information for this log source is shared amongst one or more other log sources. Because this log source was auto-discovered, its connection information is not modifiable.

Log Source Name

WindowsAuthServer @ 192.168.1.8

Log Source Description

WindowsAuthServer device

Log Source Type

Microsoft Windows Security Event Log

Protocol Configuration

Syslog

Log Source Identifier

192.168.1.8

Enabled

☒

Credibility

5

Target Event Collector

eventcollector0 :: localhost

Coalescing Events

☒

Incoming Payload Encoding

UTF-8

Store Event Payload

☒

Log Source Language

English

Please select any groups you would like this log source to be a member of:

Save

Cancel

Step 2: Ensure Syslog Port is Accessible

- Verify that ports UDP/514 and TCP/514 are open on the QRadar host
- Ensure firewalls do not block incoming log traffic

7. Conclusion

In this lab, we successfully set up IBM QRadar CE in a virtual environment on an Ubuntu machine and configured a Windows host with WinCollect to send event logs to QRadar. This setup enables real-time log collection and analysis, an essential step in building a security monitoring infrastructure.