

# RHEL 7 Warehouse Management System: Cybersecurity Monitoring Deployment

## Project Author

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## Overview

This project documents the deployment of cybersecurity monitoring tools on Red Hat Enterprise Linux (RHEL) 7.0 servers hosting a Warehouse Management System (WMS). A total of 12 servers were involved: 6 development (dev) servers and 6 production (prod) servers. The servers were approaching End-of-Life (EOL) status, prompting a proactive security hardening effort ahead of potential cloud migration mandates. Key focus: Installing Arctic Wolf Networks Linux agents for managed detection and response (MDR), alongside ConnectSecure for automated vulnerability management and compliance monitoring.

**Goals:** - Enhance threat detection on legacy infrastructure. - Identify and mitigate vulnerabilities before EOL enforcement. - Ensure minimal downtime for critical WMS operations.

**Tech Stack:** - OS: RHEL 7.0 - Monitoring: Arctic Wolf Linux Agent, ConnectSecure - Environment: On-premises servers (warehouse ops)

## Background

Our WMS ran on RHEL 7 servers, which reached end of maintenance support in June 2024 (with optional Extended Life Cycle Support available until 2028/2029 depending on add-ons). An upgrade to RHEL 8 would have provided full maintenance support until May 2029, offering a more secure on-premises path. However, the software vendor showed limited interest in supporting an OS uplift and appeared focused on migrating customers to their cloud-hosted product—likely at a higher long-term cost. Vendor support for the on-premises version was inconsistent, leaving security gaps in an unmonitored legacy setup. This deployment added layered monitoring without disrupting 24/7 warehouse workflows, buying time while bridging the EOL risks.

# Project Timeline

- **Start Date:** Second week of January 2025
- **Completion Date:** End of January 2025
- **Scope:** 6 dev servers + 6 prod servers (12 total)
- **Approach:**
  - Initial deployment and testing on the 6 dev servers.
  - Monitoring period of one week to observe stability, performance impact, and alert accuracy.
  - Final rollout to the 6 prod servers after successful validation on dev.

# Prerequisites

- Root access to RHEL 7.0 servers.
- Arctic Wolf Networks account/subscription for agent licensing.
- ConnectSecure account (MSP-focused platform; agent deploy via portal-generated scripts).
- Basic package management (yum for RHEL 7).
- Firewall rules allowing outbound traffic for agent telemetry (e.g., ports 443/TCP for Arctic Wolf and ConnectSecure).

**Note:** All steps were first tested in the dev environment before production rollout.

# Deployment Steps

## 1. Arctic Wolf Linux Agent Installation

Arctic Wolf's agent provides endpoint detection, log collection, and MDR services tailored for Linux.

### 1. Download the Agent Package:

- Log in to your Arctic Wolf Console ([console.arcticwolf.com](https://console.arcticwolf.com)).
- Navigate to **Sensors > Linux** and generate a deployment token.
- Download the RPM: aw-sensor-linux-<version>.rpm (e.g., via wget: `wget https://your-org-sensor-url/aw-sensor-linux-x.x.x.rpm`).

### 2. Install the Agent:

```
```bash # Verify integrity (optional SHA checksum from Arctic Wolf) sha256sum aw-sensor-linux-x.x.x.rpm
```

## Install via yum

```
sudo yum localinstall aw-sensor-linux-x.x.x.rpm -y
```

# **Configure with your token (replace )**

```
sudo /opt/arcticwolf/awagent/bin/awagentctl set-token
```

# **Start and enable the service**

```
sudo systemctl start awagent sudo systemctl enable awagent
```