Redhat Installer

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1 PeerIQ Installation for Red Hat and Rocky Linux

1.1 Introduction

1.1.1 Purpose of this Document

This manual provides instructions and requirements for installing and configuring the PeerIQ solution on a supported Red Hat Enterprise Linux (RHEL) or Rocky Linux system. It outlines system prerequisites, network requirements, essential packages, and services to ensure a successful deployment.

1.1.2 Intended Audience

This document is designed for **system administrators** and **technical personnel** responsible for the installation, configuration, and maintenance of the PeerIQ platform. Familiarity with Linux system administration, networking, and basic command-line tools is assumed.

1.1.3 System Update (Recommended)

It's generally good practice to ensure the underlying operating system is fully updated before installing PeerIQ. You can do this by running the following:

```
sudo dnf update
```

Keeping your OS up to date helps prevent dependency conflicts and ensures the latest security patches are in place.

1.2 System Requirements

1.2.1 Supported Operating Systems

- **Red Hat Enterprise Linux (RHEL) 9.2 or later**
- **Rocky Linux 9.2 or later**

Note: If you wish to install PeerIQ on other distributions or versions, please review with Peer Software support prior to attempting an install.

1.2.2 Licensing

PeerIQ is available in two licensing levels: Basic and Advanced. Each license level determines the depth of analytics and insights available within the application.

- Basic License: Provides access to all Environment Monitoring and File System Analytics data. Within File Activity Analytics, only aggregated statistics are available, offering a summarized overview of user and client activity across the environment.
- Advanced License: Includes all functionality of the Basic license, with the addition of full real-time activity logging as well as detailed user and client analytics across all monitored storage environments. This level also enables ML-based anomaly detection, which identifies patterns of user or client behavior that deviate from typical activity.

  Note: Please Contact Peer Software to discuss upgrading your license level.

1.2.3 Hardware Requirements

The specifications below represent the **minimum requirements** for deployment. Depending on the scale of your PeerGFS environment, data volume, and the number of monitored users or clients, additional resources may be required to maintain optimal performance.

1.2.4 Basic License

- A minimum of 4 CPU cores.
- 8 GB RAM.
- 120 GB virtual disk.

  Note: The virtual disk should be **thick provisioned**, and **high-performance SSD storage** is recommended to ensure smooth operation.

1.2.5 Advanced License

- A minimum of 8 CPU cores.
- 16 GB RAM.
- 1.5 TB virtual disk, required to store approximately three months of real-time activity data.

  Note: The virtual disk should be **thick provisioned**, and **high-performance SSD storage** is recommended to ensure smooth operation.

1.2.6 Software Requirements

All software components are installed via the `dnf` or `pip` package manager. The installer script handles the installation of these dependencies automatically when run as **sudo**.

The PeerIQ installation process requires the following packages.

- Common System Packages:
  - `getopt`
  - `util-linux`
  - `sort`
  - `coreutils`
- Additional Packages:
  - `whiptail`
  - `newt`
  - `jq`
- PeerIQ-Specific Packages:
  - `Podman v5.2.0 or later` (Older versions of Podman will be upgraded by the installer as needed).
  - `Podman-Compose`
  - `Python3-Pip`

1.3 Installation of PeerIQ

PeerIQ is a container-based solution. It leverages **podman** to manage containers and includes two `systemd` services to simplify administration and startup routines.

1.3.1 Task 1. Extract the Provided Tar File

The installation package for PeerIQ is provided as a `peeriq_redhat_xxxxx.tar` file.

To extract the contents of this tar file, run the following command:

```
tar -xvf peeriq_redhat_xxxxx.tar
```

This will extract 4 files

- config.json
- docker-compose.yml
- installer.sh
- start_peeriq.sh

If any of these files are missing, please contact Peer Software support.

1.3.2 Task 2. Run Installer Script

Run the `installer.sh` and follow the instructions.

```
sudo ./installer.sh
```

> **Important:** The PeerIQ installer script must be run with **sudo or root privileges** to properly install packages, configure services, and set up firewall rules.

Follow the steps through the installation wizard. Once complete, you will be presented with the following message:

```
The PeerIQ Software Updater was successfully installed.

Please log into the PeerIQ Software Updater web interface
to complete the PeerIQ installation:

https://<ip>:4443
```

1.3.3 Task 3. Complete Installation through the PeerIQ Service Administration interface

Navigate to the provided web URL in the message to select which version of PeerIQ to install.

> **Important:** You must log in to the PeerIQ Software Updater interface using Linux credentials for an account on the server that has sudo privileges.

If you require assistance in this stage, please see the Updating PeerIQ section in the PeerIQ user guide.

1.3.4 Services Added to the System

Two `systemd` services are installed and managed automatically by PeerIQ:

peeriq_software_updater.service

- **Purpose**:
  - Hosts the PeerIQ service administration web portal, used for software updates and container restarts.
- **Behavior**:
  - Runs continuously, monitoring and updating PeerIQ components.
  - By default, listens on **TCP 4443** (HTTPS), though it can be changed during installation.

peeriq_startup.service

- **Purpose**:
  - Automatically starts the PeerIQ container stack on system boot.
- **Behavior**:
  - Ensures containers are up and running after any system restart.
  - Enabled and started automatically by the installer.

1.4 Networking and Firewall Settings

1.4.1 Default Inbound Ports

1. **TCP 4430**
   - Main PeerIQ web interface (HTTPS).
2. **TCP 4443**
   - PeerIQ service administration and software updater portal.
3. **TCP/UDP 5140** *(For internal use only)*
   - **Rsyslog**: Used by the rsyslog service to receive logs from the `peeriq_service_administration.service`.
   - This port is **not** exposed externally, as it is only used for internal log forwarding.

These default ports can be changed during the installation process. If you configure firewall settings using a different method, the following commands show the automatically applied rules. These can be modified as needed for alternative firewall solutions such as `nftables` or `ufw`.

```
sudo firewall-cmd --permanent --add-port=4430/tcp
sudo firewall-cmd --permanent --add-port=4443/tcp
sudo firewall-cmd --permanent --add-rich-rule='\
  rule family="ipv4" \
  source address="127.0.0.1" \
  port port=5140 protocol=tcp \
  accept'
sudo firewall-cmd --permanent --add-rich-rule='\
  rule family="ipv4" \
  source address="127.0.0.1" \
  port port=5140 protocol=udp \
  accept'
sudo firewall-cmd --reload
```

1.4.2 Outbound Internet Traffic

A default Red Hat install doesn't typically block outbound connections. However, in a hardened security environment, PeerIQ requires outbound access to the following for updates, container images, and diagnostics:

1. **Firmware/Software Updates**
   - `https://peerdownloads.blob.core.windows.net/`
   - `https://downloads.peersoftware.com/`
2. **Container Registry**
   - `https://peersoftware.azurecr.io`
3. **Diagnostics**
   - `*.s3.amazonaws.com`
4. **System Updates (References for container images)**
   - RedHat
     - `cdn.redhat.com`
     - `subscription.rhsm.redhat.com`
   - Rocky
     - `*.rockylinux.org`

1.4.3 Local Network Outbound (LAN Traffic)

- **Broker/PMC Connection**
  - Ports: TCP 61616/61617.
  - Required for PeerIQ receive data from the PMC and Agents.

1.4.4 Optional Services Local Network Outbound (LAN Traffic)

- **AD/OpenLDAP/Red Hat Identity Management**
  - Ports: TCP 389/636 (or custom).
  - Only required if PeerIQ is to be integrated with your directory service.
