

# FortiSOAR - Upgrade Guide

Version 6.4.4



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## **TABLE OF CONTENTS**

Change Log	4
Introduction	
Preparing to Upgrade FortiSOAR	6
Upgrading a FortiSOAR Enterprise Instance	7
Upgrading a FortiSOAR High Availability Cluster	8
Upgrading an Active-Active HA Cluster	8
Upgrading an Active-Passive HA Cluster	8
Upgrading a FortiSOAR Distributed Multi-Tenancy Configuration	10
Upgrading a FortiSOAR master node	10
Upgrading a FortiSOAR Tenant node	10
Upgrading a FortiSOAR Secure Message Exchange	11
Upgrading a FortiSOAR Secure Message Exchange Cluster	11

## **Change Log**

Date	Change Description
12-14-2020	Initial release of 6.4.4.
01-11-2020	Added information about Maintenance Packs in the Preparing to Upgrade FortiSOAR section.

## Introduction

This guide covers upgrading a FortiSOAR™ enterprise instance, High Availability (HA) cluster, or a distributed multitenant configuration.

This document describes how to upgrade FortiSOAR to 6.4.4. This guide is intended to supplement the FortiSOAR Release Notes, and it includes the following sections:

- Preparing to Upgrade FortiSOAR
- Upgrading a FortiSOAR Enterprise Instance
- Upgrading a FortiSOAR High Availability Cluster
- Upgrading a FortiSOAR Distributed Multi-Tenancy Configuration



You can upgrade your FortiSOAR enterprise instance, High Availability (HA) cluster, or a distributed multi-tenant configuration to version 6.4.4 from version 6.4.3 only. Also, once you have upgraded your configuration, you must log out from the FortiSOAR UI and log back into FortiSOAR.

Also, note that the upgrade procedure temporarily takes the FortiSOAR application offline while the upgrade operations are taking place. We recommend that you send a prior notification to all users of a scheduled upgrade as users are unable to login to the FortiSOAR Platform during the upgrade.

To solve common issues that occur during the upgrade process, see the *Troubleshooting FortiSOAR* chapter in the "Deployment Guide."

## Preparing to Upgrade FortiSOAR

We recommend performing the following tasks to prepare for a successful FortiSOAR upgrade:

To prepare for upgrading FortiSOAR (summary):

- Ensure that you can connect to <a href="https://globalupdate.fortinet.net">https://globalupdate.fortinet.net</a>, else the license deployment will fail. You can yet choose to upgrade your instance without connectivity to <a href="https://globalupdate.fortinet.net">https://globalupdate.fortinet.net</a>, however, your license will not be deployed. Connectivity to this address is required for fetching the license entitlements and product functioning post-upgrade.
- Take a VM snapshot of your current system. Only after you have taken a VM snapshot of your system should you
  attempt to upgrade FortiSOAR. In case of any failures, these VM snapshots will allow you to revert to the latest
  working state. Follow the steps mentioned in the documentation of your platform for taking a snapshot and
  reverting to the current snapshot.
- Take a backup of your FortiSOAR Built-in connectors' (SSH, IMAP, Database, Utilities, etc.) configuration, since
  the configuration of your FortiSOAR Built-in connectors might be reset, if there are changes to the configuration
  parameters across versions.
- Ensure that the ssh session does not timeout by entering into the screen mode. For more information on how to
  handle session timeouts, see the Handle session timeouts while running the FortiSOAR upgrade article present in
  the Fortinet Knowledge Base.
- Ensure that update.cybersponse.com is reachable from your VM. If you are connecting using a proxy, then ensure that proxy details set are correct using the csadm network --listproxy command and also ensure that update.cybersponse.com is allowed in your proxy. For more information on csadm CLI, see the FortiSOAR Admin CLI chapter in the "Administration Guide."
- Ensure that you also check for latest Maintenance Packs for the FortiSOAR version to which you want to upgrade. For more information on Maintenance Packs, see the FortiSOAR Documentation Library.

## Upgrading a FortiSOAR Enterprise Instance

To upgrade your system to FortiSOAR from 6.4.3 to 6.4.4, perform the following steps:

- 1. Users who have root access must run the upgrade installer.
- 2. ssh to the VM that you want to upgrade.
- **3.** Run the following command to download the upgrade installer:

```
# wget https://update.cybersponse.com/6.4.4/upgrade-fortisoar-6.4.4.bin
```

**Note**: If your instance can connect to "update.cybersponse.com" only by using a proxy, then ensure that the proxy is set in the /etc/wgetrc file. For example,

```
use_proxy=yes
http_proxy=<proxy_server_ip:port>
https proxy=<proxy server ip:port>
```

You can also set the proxy while running the FortiSOAR Configuration Wizard or by using the csadm network command

**4.** Run the upgrade installer using the following command:

```
# sh upgrade-fortisoar-6.4.4.bin
OR
# chmod +x upgrade-fortisoar-6.4.4.bin
# ./upgrade-fortisoar-6.4.4.bin
```

**Note**: The FortiSOAR upgrade installer checks /boot for disk space, and if the /boot has insufficient space, then the upgrade installer exits after displaying an appropriate error message. Steps for cleaning up /boot are present in the Clean up /boot article present in the Fortinet Knowledge Base.

The FortiSOAR upgrade installer also checks the /var/lib/pgsql disk space to ensure that you have sufficient disk space for pgsql. If you do not have sufficient disk space for pgsql, in this case also the upgrade installer exits. In these cases, you must increase the partition size for /var/lib/pgsql. For the procedure to increase the partition size, see the 'Issues occurring in FortiSOAR due to insufficient space' section in the *Deployment Troubleshooting* chapter in the "Deployment Guide" for more information.

Once you complete cleaning up /boot and/or increasing disk space (as per the messages provided by the upgrade installer) and you have sufficient space for upgrading FortiSOAR, you must re-run the upgrade installer to continue the process of upgrading FortiSOAR.

**Important**: To upgrade a high availability cluster in FortiSOAR, you require to upgrade each node individually, one after the other. For more information, see the Upgrading a FortiSOAR High Availability Cluster section. For information on how to upgrade a FortiSOAR distributed multi-tenant configuration to 6.4.4, see the Upgrading a FortiSOAR Distributed Multi-Tenancy Configuration section.

5. Once your FortiSOAR instance is upgraded, you must log out from the FortiSOAR UI and log back into FortiSOAR.

## Upgrading a FortiSOAR High Availability Cluster

This section describes the procedure to upgrade a FortiSOAR High Availability (HA) cluster. This section considers that the HA setup has a Reverse Proxy or Load Balancer such as "HAProxy" configured.



Refer to the Preparing to Upgrade FortiSOAR section and ensure that all the prerequisites mentioned in that section are met. The upgrade installer will handle all FortiSOAR services management.

## **Upgrading an Active-Active HA Cluster**

For the purpose of the following procedure, *Node1* is considered as the Active Primary node, *Node2* is considered as the Active Secondary node. Both the nodes are fronted by a Reverse Proxy or Load Balancer such as "HAProxy".



Approximately 30 minutes of downtime is required for the upgrade.

To upgrade your active-active HA cluster to FortiSOAR 6.4.4, perform the following steps:

- Configure the Reverse Proxy to pass requests only to Node1.
   This ensures that FortiSOAR requests are passed only to Node1, and Node2 can be upgraded.
- 2. Use the #csadm ha command as a root user and run the leave-cluster command on *Node2*. This makes *Node2* a standalone system.
- 3. Upgrade Node2 using upgrade-fortisoar-x.x.x.bin.
  Once the upgrade of Node2 is completed successfully, you can now upgrade Node1.
  Important: Upgrade of Node1 will incur downtime.
- 4. Once both the nodes are upgraded then run the join-cluster command from Node2.
- **5.** Configure the Reverse Proxy again to handle requests from both *Node1* and *Node2*.

#### **Upgrading an Active-Passive HA Cluster**

For the purpose of the following procedure, *Node1* is considered as the Active Primary node, *Node2* is considered as the Passive Secondary node. Both the nodes are fronted by a Reverse Proxy or Load Balancer such as "HAProxy".



Approximately 30 minutes of downtime is required for the upgrade.

To upgrade your active-passive HA cluster to FortiSOAR 6.4.4, perform the following steps:

- **1.** Reverse Proxy is configured to have *Node2* as backup system. Therefore, you require to comment out that part from Reverse Proxy configuration.
- 2. Use the #csadm ha command as a root user and run the leave-cluster command on Node2. This makes Node2 a standalone system.
- Upgrade Node2 using upgrade-fortisoar-x.x.x.bin.
   Once the upgrade of Node2 is completed successfully, you can now upgrade Node1.
   Important: Upgrade of Node1 will incur downtime.
- **4.** Once both the nodes are upgraded then run the join-cluster command from *Node2*.
- **5.** Configure the Reverse Proxy again to set *Node2* as the backup server.

# Upgrading a FortiSOAR Distributed Multi-Tenancy Configuration

This section describes the procedure to upgrade a FortiSOAR distributed multi-tenant configuration for managed security services providers (MSSPs) or Distributed SOC configuration.

You must first upgrade the master node of your FortiSOAR distributed multi-tenant configuration and only then upgrade the tenant nodes of your FortiSOAR multi-tenancy setup.



In case of a distributed deployment, both the master and the tenant nodes must be upgraded. A version mismatch will not work if either of them upgrades to 6.4.4.

## **Upgrading a FortiSOAR master node**

Before you upgrade your FortiSOAR master node, ensure the following:

- All playbooks have completed their execution on the master.
- The tenant node(s) are deactivated from the master node before upgrading the master node.
- If the master node of your multi-tenant configuration is part of an HA setup, i.e., MSSP +HA, then follow the steps mentioned in the Upgrading a FortiSOAR High Availability Cluster section.
   If the master node of your multi-tenant configuration is not part of an HA setup, then follow the steps mentioned in the Upgrading a FortiSOAR Enterprise Instance section.

## **Upgrading a FortiSOAR Tenant node**

Before you upgrade your FortiSOAR tenant node, ensure the following:

- Data replication from the tenant node to the master node is stopped. You can stop data replication by logging on to the tenant node and clicking Settings to open the System page, then in the Multi Tenancy section, click the Master Configuration menu item and then in the Communication With Master Node section, toggle the Enabled button to NO.
- All playbooks have completed their execution on the tenant.
- All schedule playbooks that fetch data from data sources to the tenant are stopped.
- Any application that pushes data from data sources to the tenant is stopped.
- If the tenant node of your multi-tenant configuration is part of an HA setup, i.e., MSSP +HA, then follow the steps
  mentioned in the Upgrading a FortiSOAR High Availability Cluster section.
   If the tenant node of your multi-tenant configuration is not part of an HA setup, then follow the steps mentioned in
  the Upgrading a FortiSOAR Enterprise Instance section.

## **Upgrading a FortiSOAR Secure Message Exchange**

A secure message exchange establishes a secure channel that is used to relay information to the agents or tenant nodes. To create a dedicated secure channel, you are required to add the reference of the installed and configured secure message exchange, when you add agent or tenant nodes to your environment. For information on agents see the Segmented Network support in FortiSOAR chapter in the "Administration Guide," and for more information on secure message exchange and tenants, see the "Multi-Tenancy support in FortiSOAR Guide".

- 1. Ensure that you stop data replication between the master and the tenant nodes. You can stop data replication by logging on to the tenant node and clicking **Settings** to open the System page, then in the Multi Tenancy section, click the **Master Configuration** menu item and then in the Communication With Master Node section, toggle the **Enabled** button to **NO**.
- 2. SSH to the secure message exchange VM that you want to upgrade.
- 3. Run the following command to download the upgrade installer:
  # wget https://update.cybersponse.com/6.4.4/upgrade-fortisoar-6.4.4.bin
- **4.** Run the upgrade installer using the following command:

```
# sh upgrade-fortisoar-6.4.4.bin
OR
# chmod +x upgrade-fortisoar-6.4.4.bin
# ./upgrade-fortisoar-6.4.4.bin
```

**5.** Once you have successfully upgraded the secure message exchange, start the data replication between the master and the tenant nodes again by toggling the **Data Replication** button to **ON**, and then verify the replication.

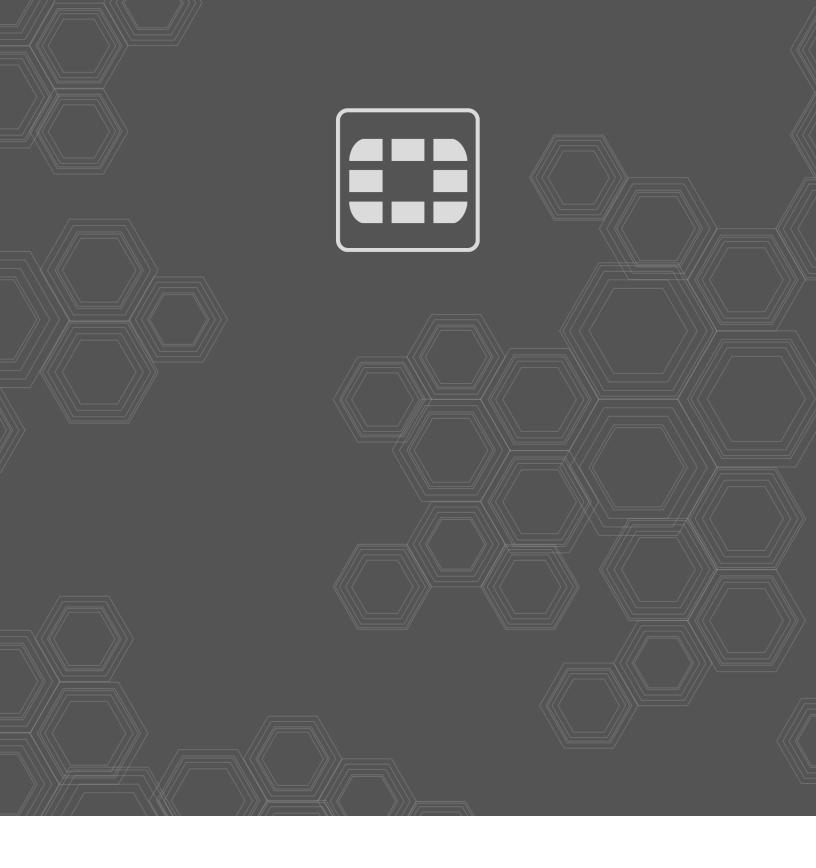
#### **Upgrading a FortiSOAR Secure Message Exchange Cluster**

RabbitMQ supports clustering, that in conjunction with Queue Mirroring can be used for an Active-Active configuration as explained in the Clustering Guide and in the Highly Available (Mirrored) Queues article, which includes steps on how to set up the clusters and monitor queues. The clustered instances should be fronted by a TCP Load Balancer such as HAProxy, and clients should connect to the cluster using the address of the proxy. For more information, see the *Multitenancy support in FortiSOAR* guide.



For the purpose of the following procedure, we are considering a two-node MQ mirrored queue clusters that are both added to the Reverse Proxy.

- **1.** Configure the Reverse Proxy to pass requests only to *Node1*, which is the primary node of the MQ cluster. Therefore, now all requests will be handled by *Node1* and *Node2* will be available for maintenance.
- 2. Log on to the *Node2* terminal session as a root user, and upgrade *Node2* by following the steps mentioned in the Upgrading a FortiSOAR Secure Message Exchange section.
- **3.** Configure the Reverse Proxy to route requests through *Node2*. Therefore, now all requests will be handled by *Node2* and *Node1* will be available for maintenance.
- **4.** Login to *Node1*, and upgrade *Node1* as per the procedure mentioned in **step 2**.
- **5.** Reconfigure the Reverse Proxy to load balance both *Node1* and *Node2*.



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