

Reinstall Secure Network Analytics Operating System On Hardware Models

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Introduction

This document describes the process to reinstall the Cisco Secure Network Analytics (SNA) software remotely on UCS hardware models.

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- Cisco Secure Network Analytics
- Cisco Integrated Management Controller (CIMC)

Components Used

The information in this document is based on these components:

- Cisco Flow Sensor 4240 (M5 Hardware)
- CIMC version 4.1(1d)

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

Procedure

The suggested procedure is to reinstall the SNA Operating System (OS) remotely via the Kernel-based Virtual Machine (KVM) console from the CIMC. To accomplish this, proceed as follows:

Step 1. Download the ISO file

An ISO file for the applicable appliance model is required to reinstall the SNA OS. To download the required ISO file:

1. Go to **Cisco Software Central**, <https://software.cisco.com>.
2. In the **Download and Upgrade** section, select **Software Download**.
3. Type **Secure Network Analytics** in the **Select a Product** field. Press Enter.
4. Select the applicable **virtual** appliance model.

Note: The ISO file is located **only** in the **virtual edition of the appliance**. For example, if you need to reinstall the SNA OS of a Flow Collector 4210 appliance, you must select **Virtual Flow Collector**.

5. Under **Select a Software Type**, select **Secure Network Analytics System Software**, and then select the desired **Software Version**.
6. Locate the **ISO** file required for the virtual appliance model.

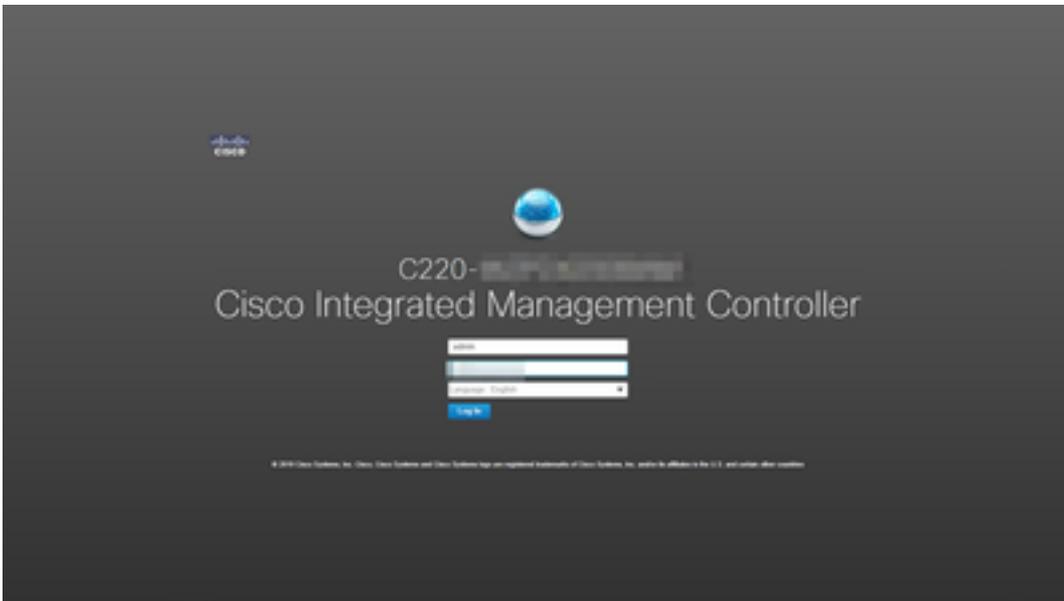
The screenshot displays the Cisco Software Central interface for downloading software. The breadcrumb navigation path is highlighted in red: [Downloads Home](#) / [Security / Network Visibility and Segmentation](#) / [Secure Analytics \(Stealthwatch\)](#) / [Secure Network Analytics Virtual Flow Sensor](#) / [Secure Network Analytics System Software](#) 7.4.1. The main content area shows the product name 'Secure Network Analytics Virtual Flow Sensor' and the release version '7.4.1'. A table of file information is displayed below, with the 'Flow Sensor ISO installer' file highlighted in red. The table includes columns for File Information, Release Date, and Size.

File Information	Release Date	Size
Flow Sensor ISO installer FlowSensor-7.4.1-20220411.1352-0674092e2d2e-1.iso Advisories	08-May-2022	2910.91 MB

7. Download the file(s).

Step 2. Install the image from KVM Console

1. Log in to the CIMC.



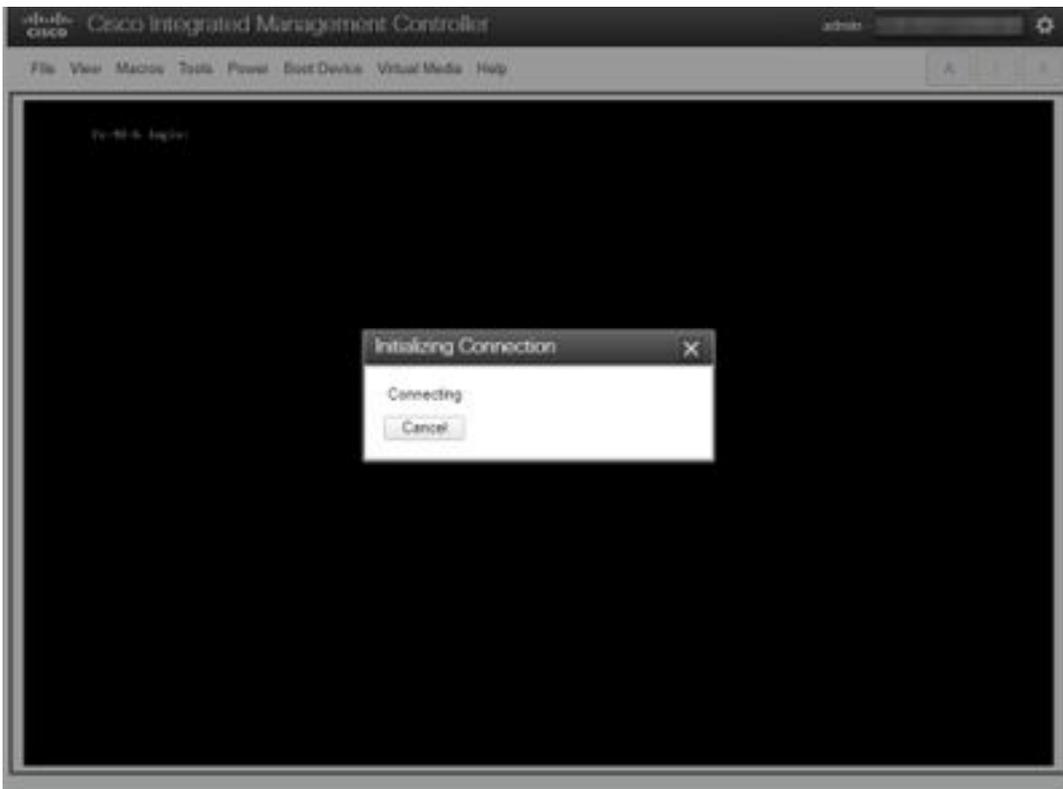
2. Click **Launch KVM** on the top right side of the screen.



3. Once the KVM Console launches select **Virtual Media > Activate Virtual Devices**.



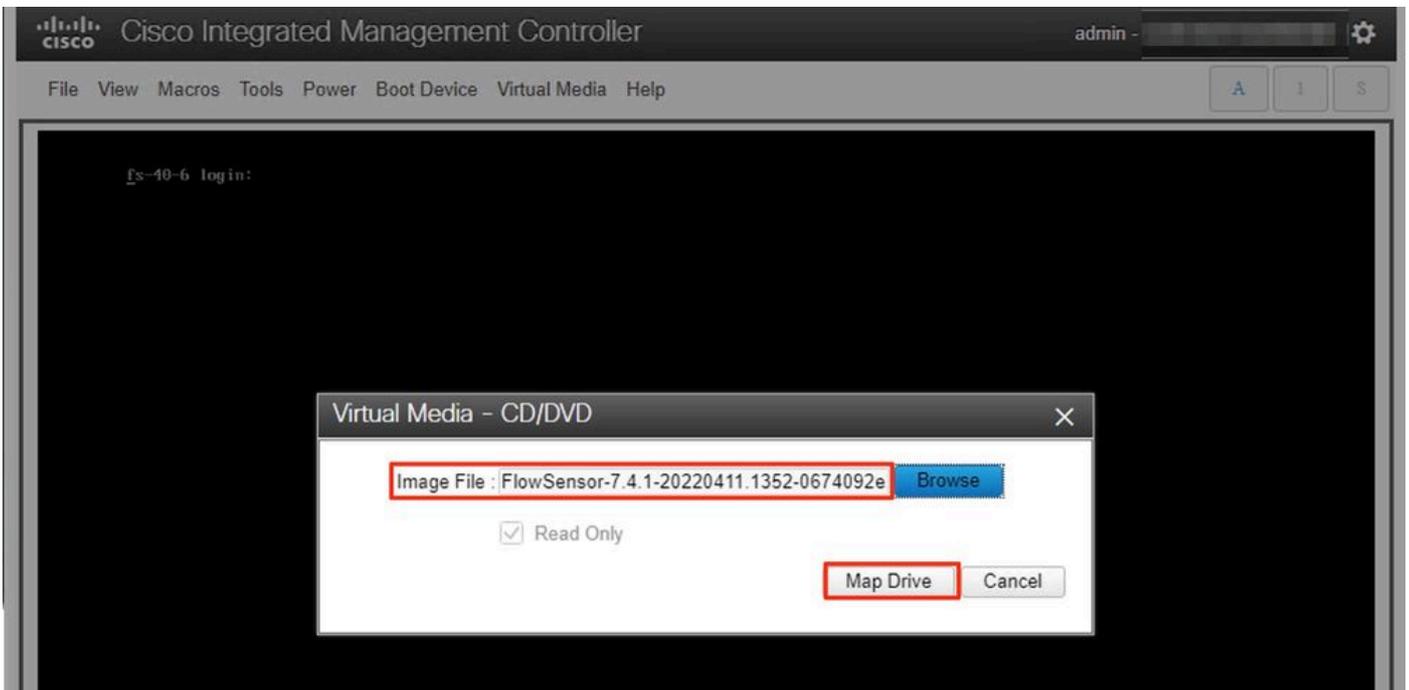
4. Wait for the connection to be established.



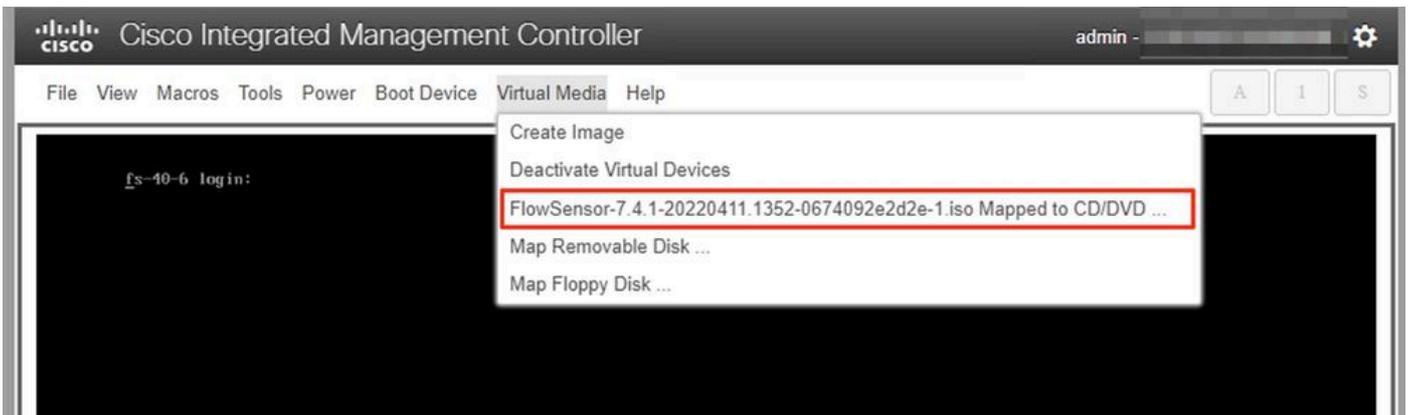
5. Click **Virtual Media > Map CD/DVD**.



6. Browse the ISO file downloaded in Step 1 and click **Map Drive**.



7. Click **Virtual Media** to confirm that the correct file was mapped to the CD/DVD drive.



8. Select **Power > Reset System (Warm Boot)** to begin the reboot process.

9. When asked, press **F6** to enter the Boot Menu.


```
Cisco Integrated Management Controller admin - [A] [I] [S]
File View Macros Tools Power Boot Device Virtual Media Help

-- Scanning for Cisco StealthWatch Install ISO or CD/DVD/USB --
-- A Cisco StealthWatch Install ISO or CD/DVD/USB was found in device sr0 --
Installer for StealthWatch Found, Proceeding
-- Start - Stage Initialization --
-- Start - Stage Initialization --
Installer Version: 1.0.0
Capabilities: SECUREBOOT,UEFI,BIOS
-- Installing System -- Stage 0 --
-- Cleaning the Drive - Stage 1 --
  0 logical volume(s) in volume group "vg_lancope" now active
/dev/sda: 8 bytes were erased at offset 0x00000200 (gpt): 45 46 49 20 50 41 52 54
/dev/sda: 8 bytes were erased at offset 0x22ddc7ffe0 (gpt): 45 46 49 20 50 41 52 54
/dev/sda: 2 bytes were erased at offset 0x000001fe (PMBR): 55 aa
-- Cleaning Grub - Stage 2 --
1+0 records in
1+0 records out
2040 bytes (2.0KB) copied, 0.000310 seconds, 6.3MB/s
Creating new GPT entries.
GPT data structures destroyed! You may now partition the disk using fdisk or
other utilities.
The operation has completed successfully.
-- Partitioning Drives - Stage 3 --
The operation has completed successfully.
-- Formatting EFI Partition --
mkfs.fat 3.0.20 (2015-05-16)
Physical volume "/dev/sda4" successfully created.
Volume group "vg_lancope" successfully created
  0 logical volume(s) in volume group "vg_lancope" now active
-
```

12. Wait for the OS installation to be completed.

```
Cisco Integrated Management Controller admin - [Progress Bar] [Settings]
File View Macros Tools Power Boot Device Virtual Media Help [A] [I] [S]

-- Formatting Secondary Partition --
mke2fs 1.43.1 (00-Jun-2016)
/dev/sda2 contains a ext3 file system labelled 'active'
    last mounted on / on Thu Aug 11 22:28:05 2022
Creating filesystem with 5120000 4k blocks and 1281120 inodes
Filesystem UUID: ed4bf87f-19c1-4498-975e-b4068b8cf578
Superblock backups stored on blocks:
    32768, 98384, 163840, 229376, 294912, 819200, 884736, 1605632, 2654200,
    4096000

Allocating group tables: done
Writing inode tables: done
Creating journal (32768 blocks): done
Writing superblocks and filesystem accounting information: done

-- Formatting Swap Partition --
mkswap: /dev/sda3: warning: wiping old swap signature.
Setting up swapon version 1, size = 1.5 GiB (1614882944 bytes)
no label, UUID=f87989e7-1e65-46b6-9116-960c81a91178
-- Formatting Data Partition --
mke2fs 1.43.1 (00-Jun-2016)
Creating filesystem with 574206976 4k blocks and 143556688 inodes
Filesystem UUID: e8577c57-f056-4dfe-8eeb-d4bf5cffb54d
Superblock backups stored on blocks:
    32768, 98384, 163840, 229376, 294912, 819200, 884736, 1605632, 2654200,
    4096000, 7962624, 11239424, 20480000, 23087072, 71663616, 78675960,
    102400000, 214990848, 512000000, 558731776

Allocating group tables: done
Writing inode tables: done
Creating journal (32768 blocks): done
Writing superblocks and filesystem accounting information: done

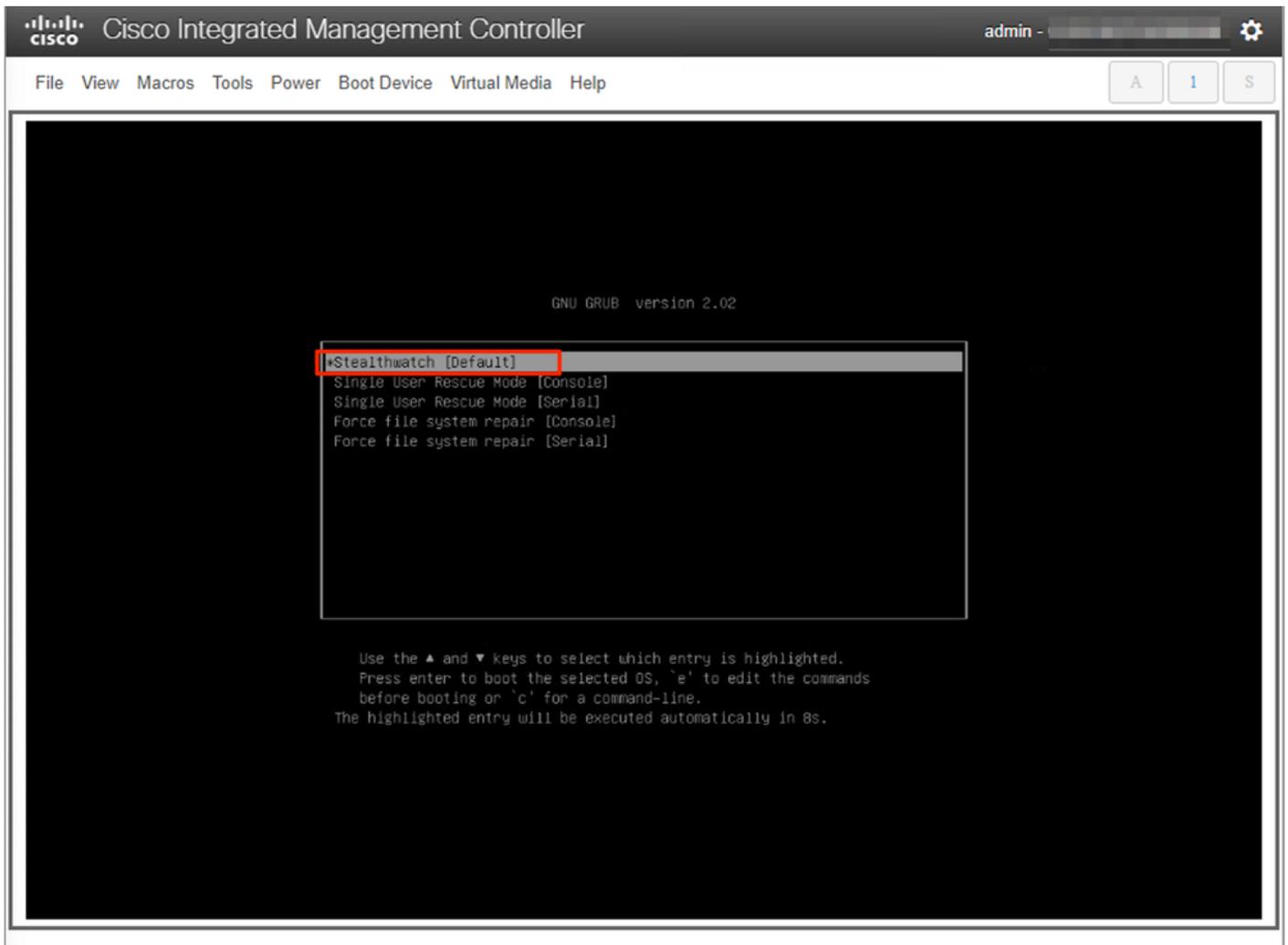
-- Mounting Partitions - Stage 4 --
    1 logical volume(s) in volume group "vg_lancope" now active
-- Extracting root image onto partitions - Stage 5 --
152MiB 0:02:32 [ 837KiB/s] [=> | 5% ETA 0:41:44
```

13. The appliance reboots once the OS is installed successfully.

```
Cisco Integrated Management Controller admin - [A] [I] [S]
File View Macros Tools Power Boot Device Virtual Media Help

-- Mounting Partitions - Stage 4 --
  1 logical volume(s) in volume group "vg_lancope" now active
-- Extracting root Image onto partitions - Stage 5 --
2.60GiB 0:44:40 [1015KiB/s] [=====>] 100%
-- Extracting lvar Image onto partitions - Stage 6 --
5.09KiB 0:00:00 [ 705KiB/s] [=====>] 100%
-- PreStaging Directories - Stage 7 --
-- Resetting permissions - Stage 8 --
-- Archive RFD Images - Stage 9 --
-- Configuring Your System - Stage 10 --
Fix for ModelType Not available on initial if Applicable
-- Setting up Grub - Stage 11 --
-- Writing out to grub - Stage 12 --
-- Cleaning EFI boot device 0000 --
-- Adding EFI boot menu for StealthWatch --
BootCurrent: 0000
Timeout: 3 seconds
BootOrder: 0000,0009,000A
Boot0009* UEFI: Built-in EFI Shell
Boot000A* UEFI: Cisco vKVM-Mapped vDVD1.24
Boot0000* StealthWatch
-- Updating Grub with UNIFIED Boot Parameters - Stage 13 --
-- Setting Box to Process RFD on First Boot - Stage 14 --
-- Gathering Installed Details - Stage 14b --
-----
Installed Product Type : FlowSensor
Installed Product Version : 7.4.1
Installed Product Build : 20220411.1352-0674092e2d2e-1
-----
-- Unmounting Partitions - Stage 15 --
-- Rebooting - Stage 16 --
-- Finished - Stage Complete --
The system is going down NOW!
Sent SIGTERM to all processes
Sent SIGKILL to all processes
Requesting system reboot
-
```

14. Boot with the Stealthwatch (SNA) OS.



At this point the reinstall process is completed.

Verify

If the reinstall process was successful you must be prompted with the login screen once the appliance boots up.



Related Information

- For additional assistance, please contact Technical Assistance Center (TAC). A valid support contract is required: [Cisco Worldwide Support Contacts](#).
- You can also visit the Cisco Security Analytics Community [here](#).
- [Technical Support & Documentation - Cisco Systems](#)