



SANGFOR

Sangfor Checks

User Manual

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About This Document

This document is Sangfor Checks' user manual.

Intended Audience

This document is intended for:

- Sangfor Products user
- Partners
- Engineers

Note Icons

English Icon	Description
	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
	Indicates a hazardous situation, which if not avoided, could result in minor or moderate injury.
	Indicates a hazardous situation, which if not avoided, could result in settings failing to take effect, equipment damage, or data loss. NOTICE addresses practices not related to personal injury.
	Calls attention to important information, best practices, and tips. NOTE addresses information not related to personal injury or equipment damage.

Change Log

Date	Change Description
Jun. 01, 2023	This is the first release of this document.

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1 Overview

1.1 Background

With increased product quantity and complexity, business operations become challenging. In response, we have developed **Sangfor Checks**, a one-stop solution for business and business-related goals.

1.2 Features

1.2.1 Health Check and SP Installation

The current version of Sangfor Checks includes two main features: Health Check and Service Packs.

Health Check support 6 products: Network Secure, Cyber Command, IAG, Endpoint Secure, HCI and VDI.

Service Packs allow users to download service packages for Network Secure, Cyber Command, Endpoint Secure, and IAG. However, users can only directly patch the service packages for Endpoint Secure, IAG and NGAF8.0.47.

2 Installation

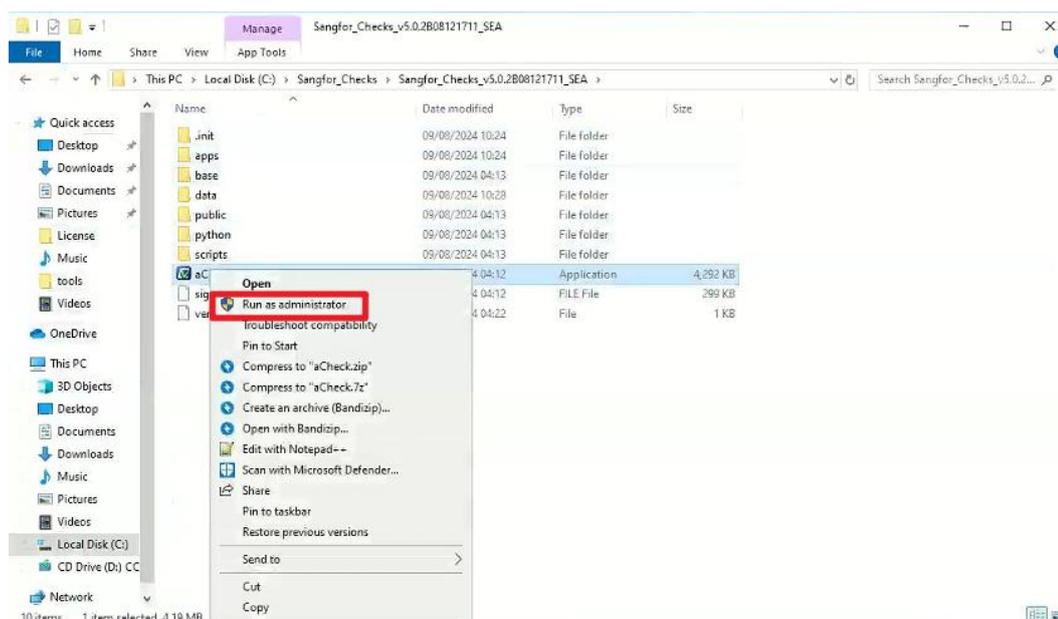
2.1 Download

Sangfor Checks can be downloaded from the Sangfor Community.

2.2 Installation

2.2.1 Online Environment

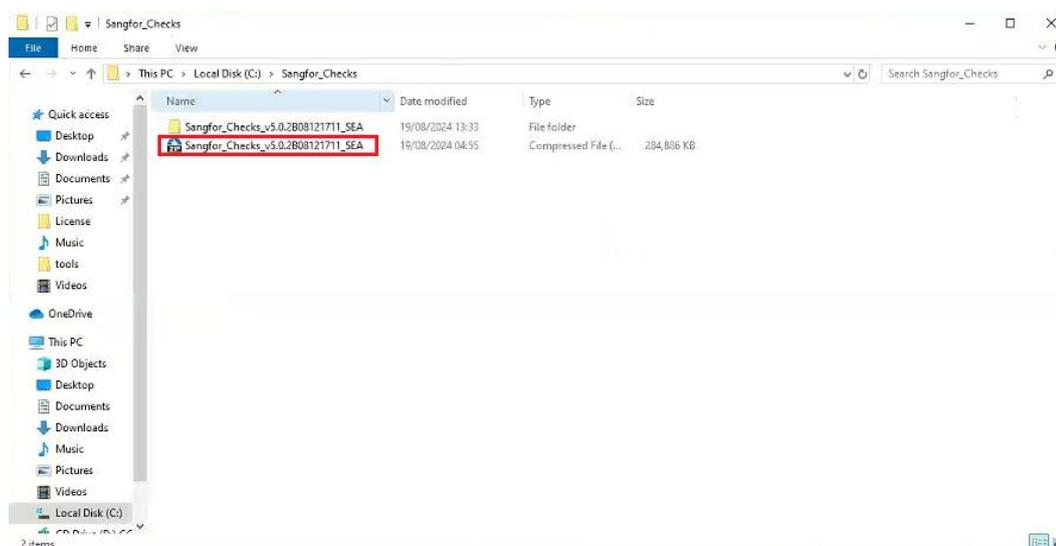
After downloading and decompressing the file, you can double-click **aCheck.exe** to run **Sangfor Checks**. Run it **as an administrator** to avoid errors caused by insufficient permissions.



2.2.2 Offline Environment

When using Sangfor Checks in an offline environment, follow these steps:

1. Download Sangfor Checks on a PC connected to the Internet, decompress the compressed file, and run Sangfor Checks to download the patches or Health Check plugins.
2. Transfer all Sangfor Checks files to the offline PC. You can either directly copy or compress the files before transferring and then decompress them on the offline PC.
3. You can now use Sangfor Checks in an offline environment.



2.3 Operation

2.3.1 OS Compatibility

Supported: Windows 7, Windows 10, and Windows 11.

Not Supported: Windows Server 2008 and above, MacOS, and Linux.

2.3.2 Run Sangfor Checks

Decompress the downloaded package and run **aCheck.exe**.



1. Run it as an administrator to avoid errors caused by insufficient permissions.
 2. Create a desktop shortcut for easy access.
-

2.3.3 Update Sangfor Checks

For more information, see **Chapter 3. 5. 2 System Upgrade**.

2.4 Login

You can log in to Sangfor Checks with a **Partner Portal account**, **Sangfor Community account**, or **WeCom account**.

2.4.1 Partner Portal

Partner Portal is oriented for engineers of Sangfor partners, you are able to input the email account for login. If you need to apply it, contact Sangfor sales to open it.

2.4.2 Sangfor Community

Partner Portal is oriented for users who have registered in Sangfor community (<https://community.sangfor.com/>) . You are able to login with registered email address.

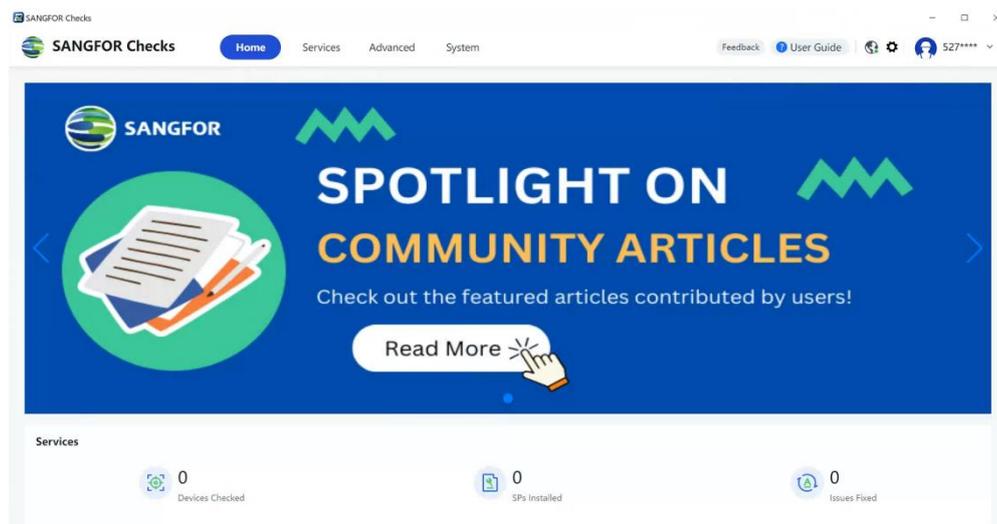
2.4.3 WeCom

WeCom method is targeted for Sangfor vendor engineer, which can login it with scanning WeCom QR code.

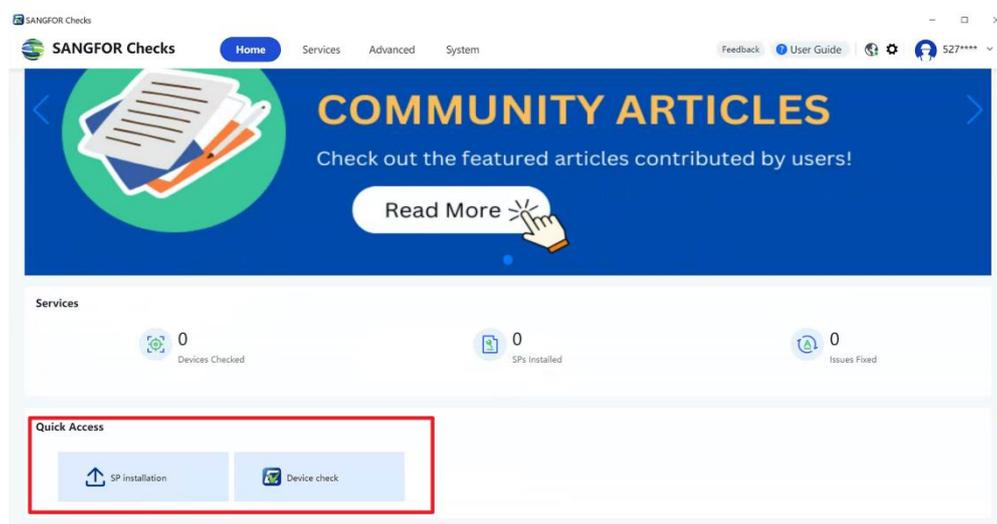
3 User Guide

3.1 Home

The Homepage will show the banner slider.



Click the icons under the **Services** or **Quick Access** section to visit the corresponding function module.



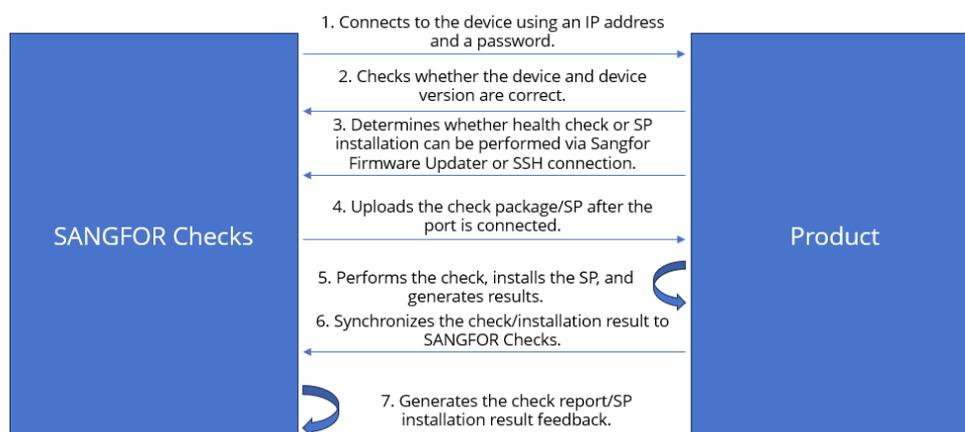
3.2 Device Health Check

Device Health Check is crucial to device maintenance. Devices are regularly or irregularly checked to spot and fix any potential failure or issue, aiming to extend the device's lifetime and ensure production efficiency and security.

3.2.1 Principle

Sangfor Checks is a framework whose core capabilities, such as Health Check and SP installation, are supported by different product line devices. The

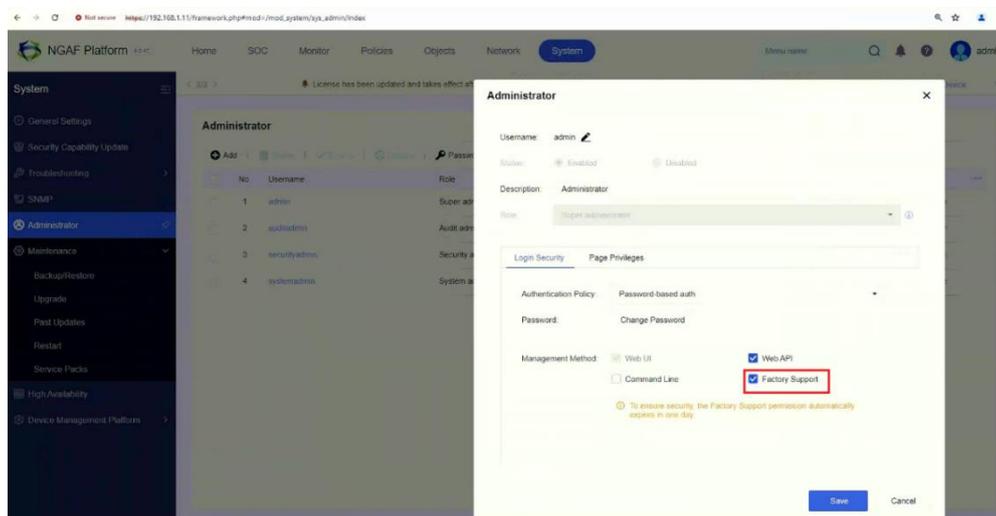
workflow is illustrated in the following figure.



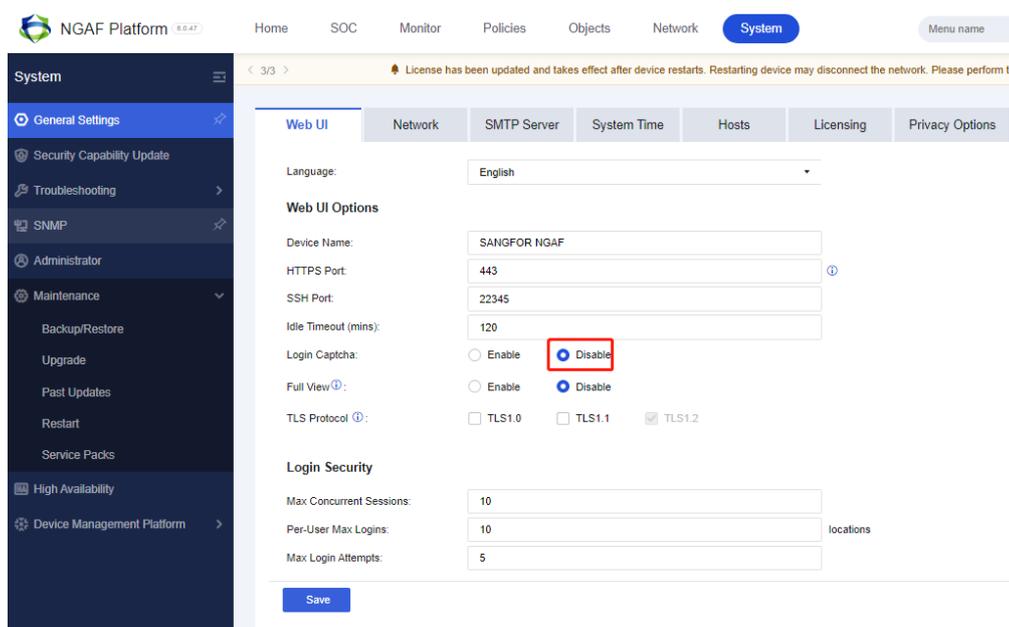
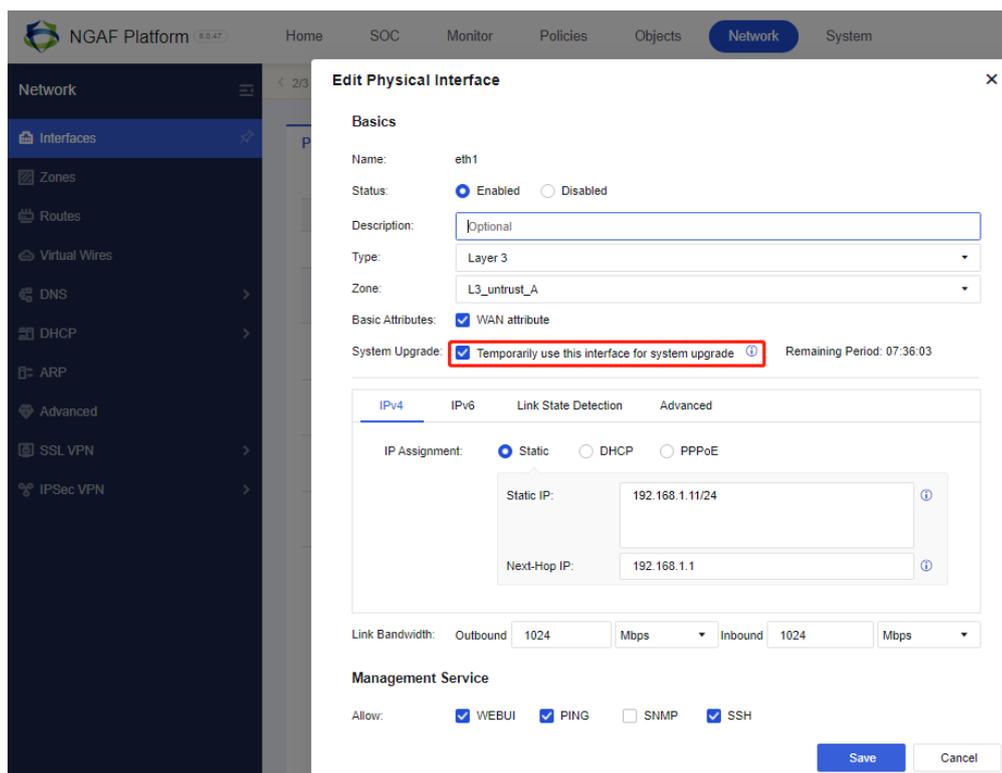
3.2.2 Procedure

3.2.2.1 Network Secure Health Check

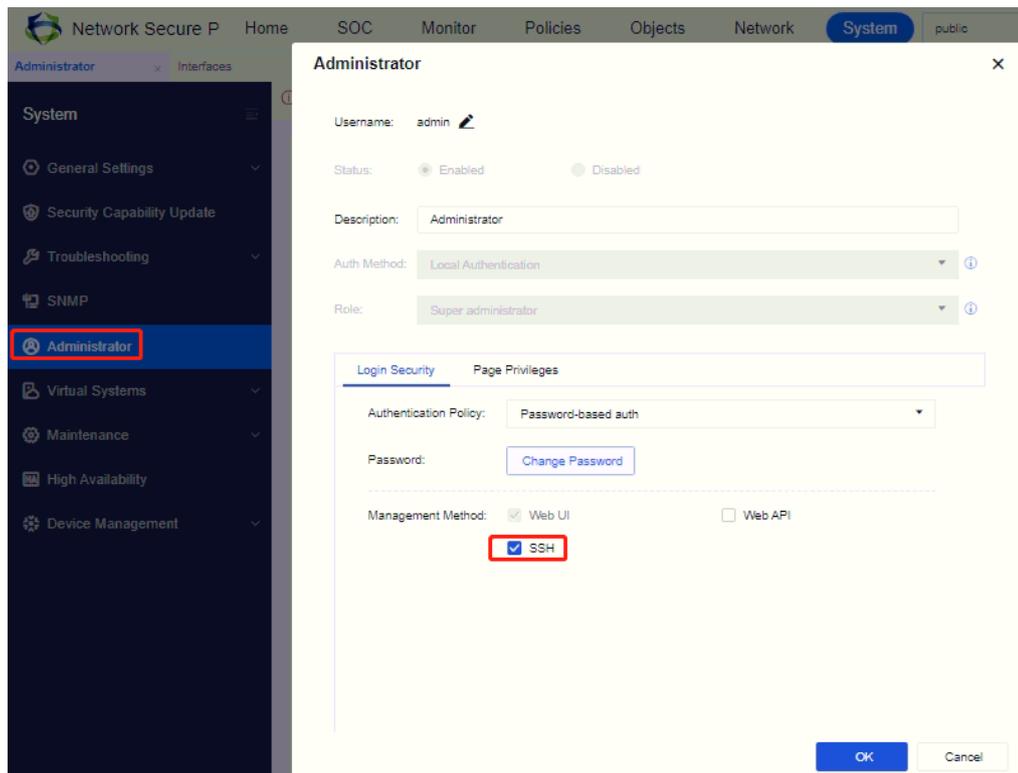
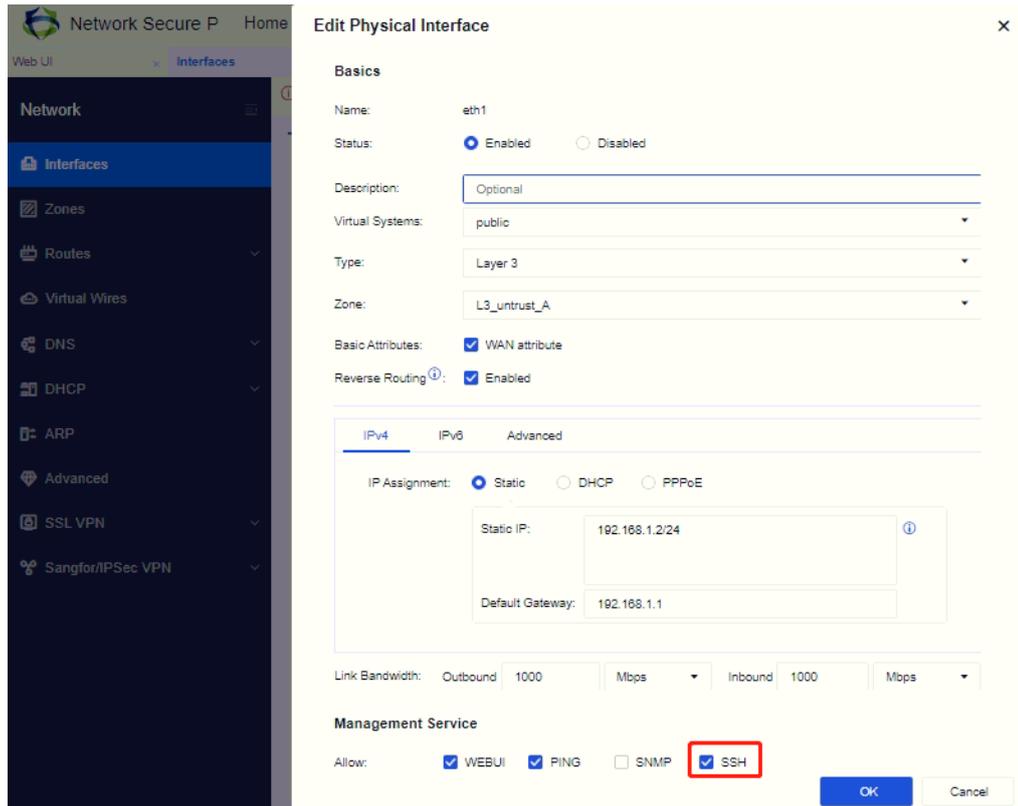
Log in to the Network Secure 8.0.47 console, go to **System > Administrator**, and select **Factory Support** for **Management Method**, as shown in the following figure.



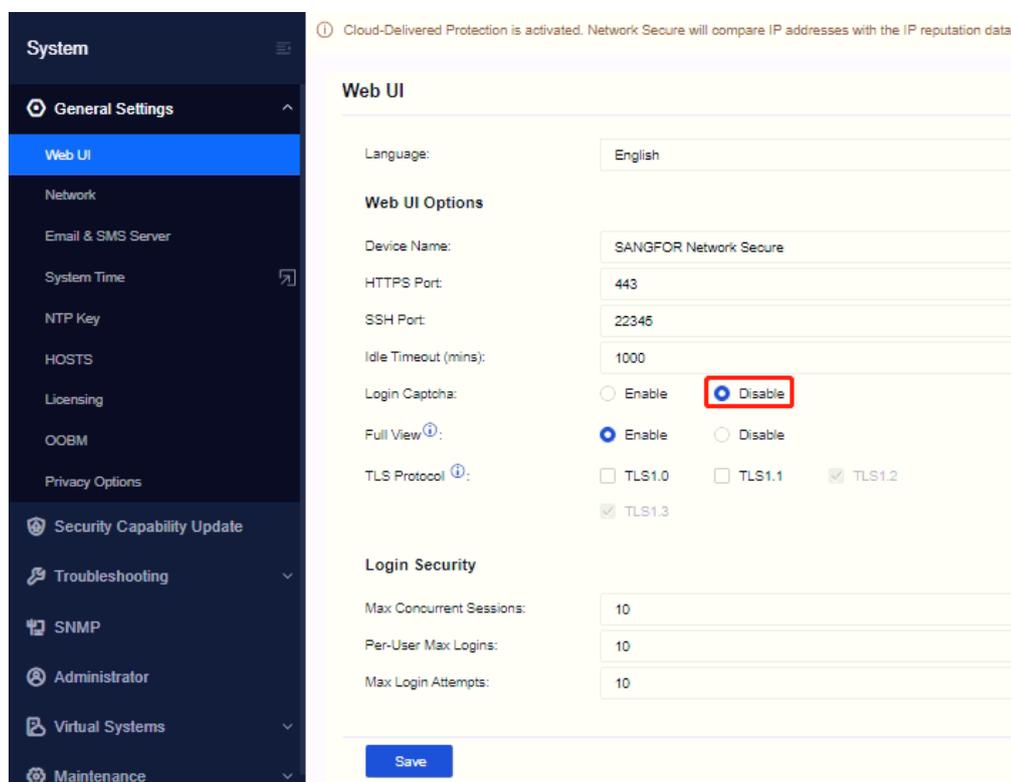
For Network Secure 8.0.47, configure the interface as shown in the following figure and disable captcha option. The console port is 443, and the SSH port is 51111 by default.



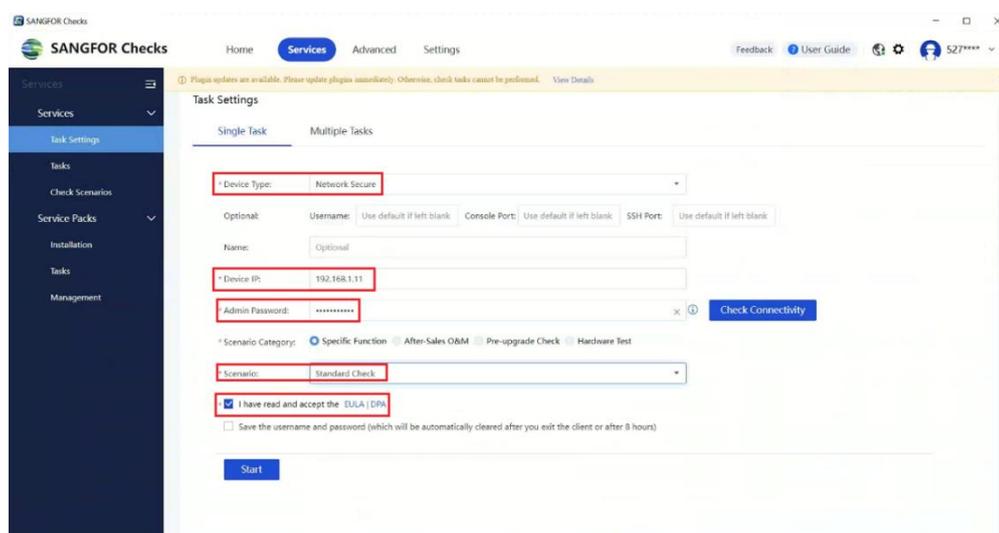
For Network Secure 8.0.83, 8.0.85, and 8.0.95, the console port is 443 and does not need to be separately opened, and the SSH port is 22345 by default, which requires enabling configurations as shown in the following figures.



In addition, select **Disable** for **Login Captcha**, as shown in the following figure. Otherwise, the connectivity test will fail. Enable login captcha after the health check is complete.

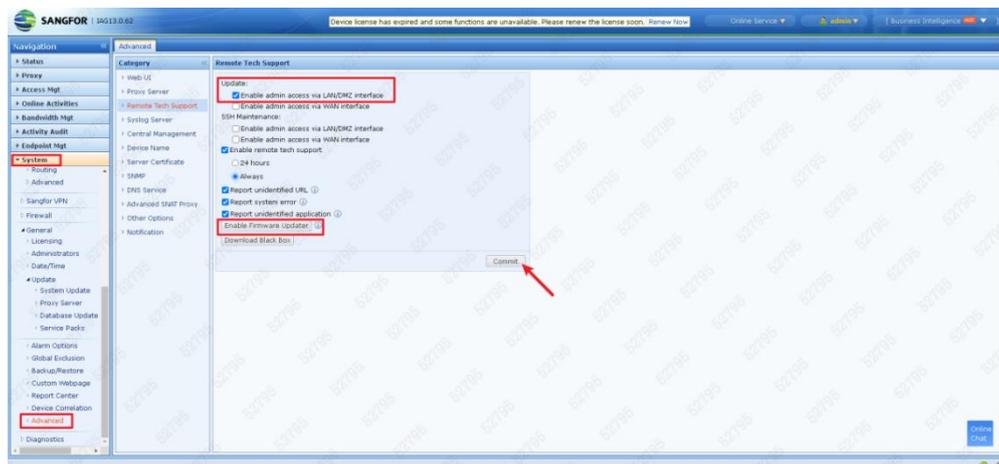


For Network Secure 8.0.47, 8.0.83, 8.0.85, and 8.0.92, configure the **Task Settings** according to the following figure and click **Start**.

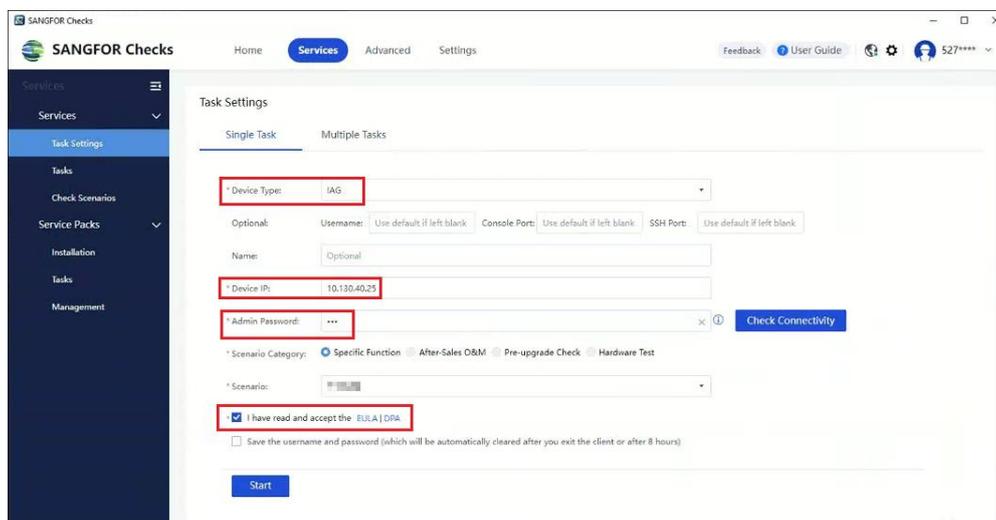


3.2.2.2 IAG Check

Log in to the IAG console, go to **System > General > Advanced**, and click **Remote Tech Support**. Then, select **Enable admin access via LAN/DMZ interface** for **Update** and click **Enable Firmware Updater**, as shown in the following figure.

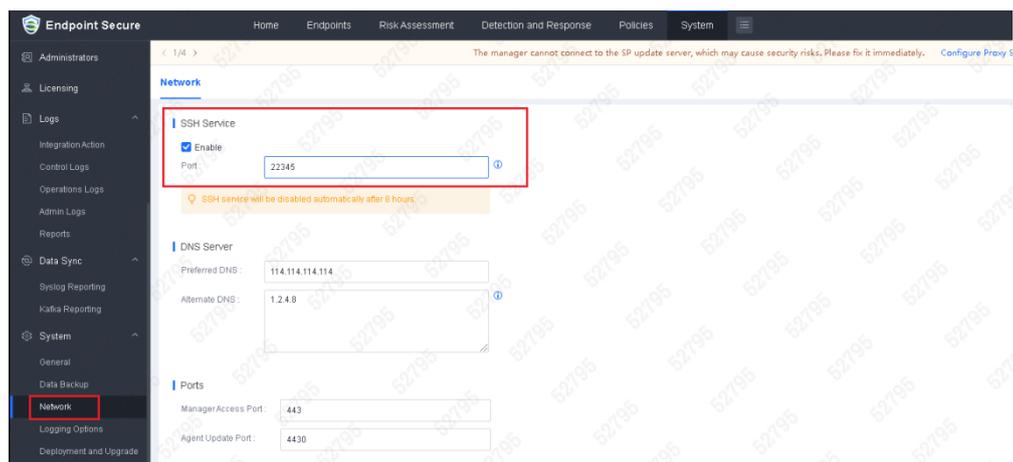


Configure the **Task settings** and click **Start**, as shown in the following figure.



3.2.2.3 Endpoint Secure Check

1. Log in to the Endpoint Secure console and go to **System > System > Network**. On the **Advanced** tab, select **Enable** and ensure that the port number is **22345** in the **SSH Service** section.

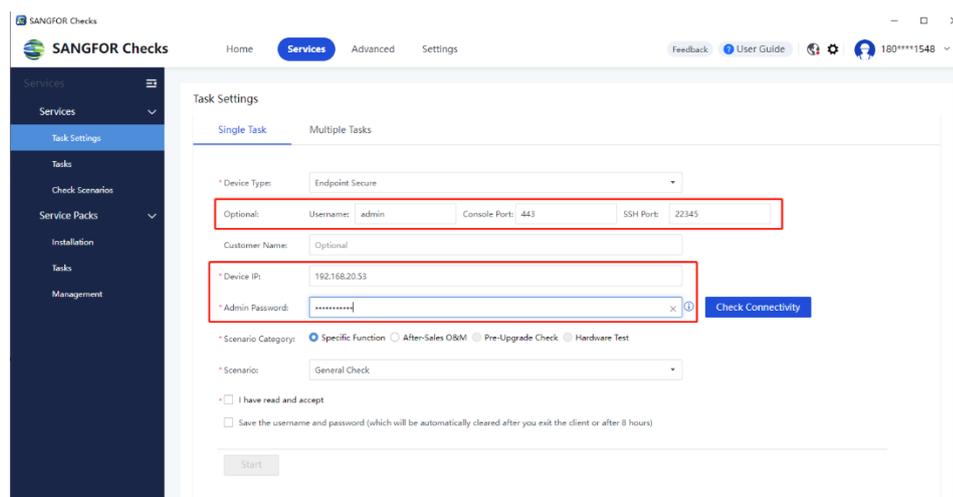


Click **Save**.

2. On Sangfor Checks, go to **Services** > **Task Settings**, select the **Single Task** tab, and configure the following parameters.

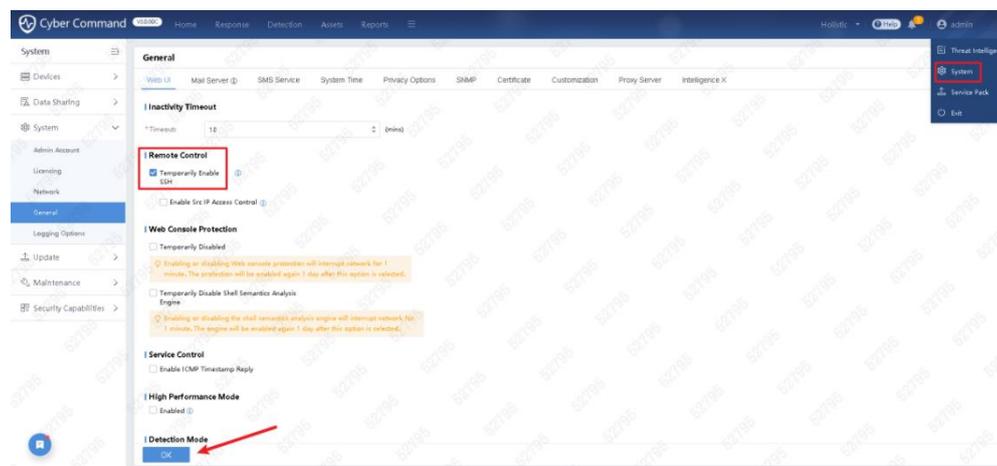
- **Device Type:** Select **Endpoint Secure**.
- **Username:** **admin** or **root** (for Linux deployment).
- **Console Port:** 443.
- **SSH Port:** 22345.
- **Admin Password:** Enter the console login password or root user password (for Linux deployment).
- **Scenario Category:** Select Specific Function.
- **Scenario:** Keep the default selection or select one as needed.
- Select **I have read and accept**.

3. Click **Start**.

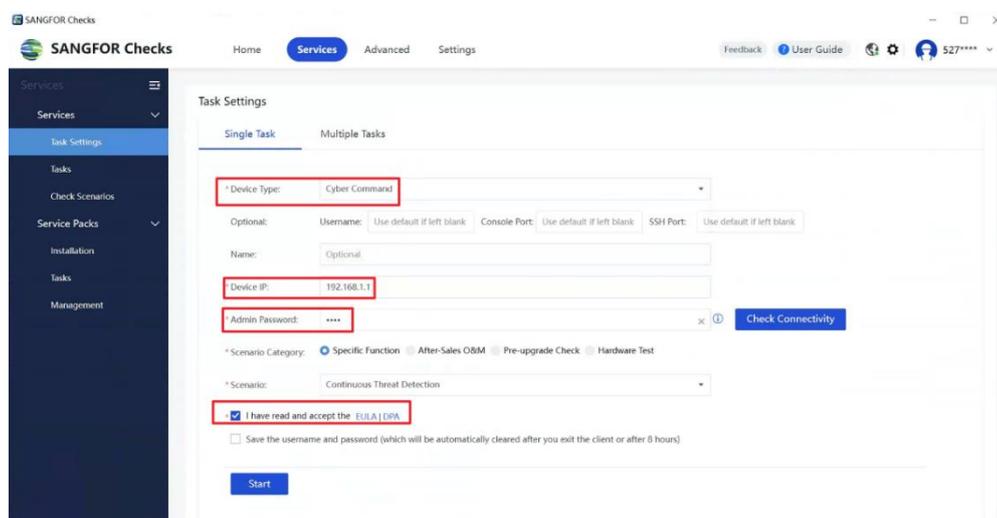


3.2.2.4 Cyber Command Check

Log in to the Cyber Command console and go to **System > System > General**. On the **Web UI** tab, select **Temporarily Enable SSH** in the **Remote Control** area and click **OK**.

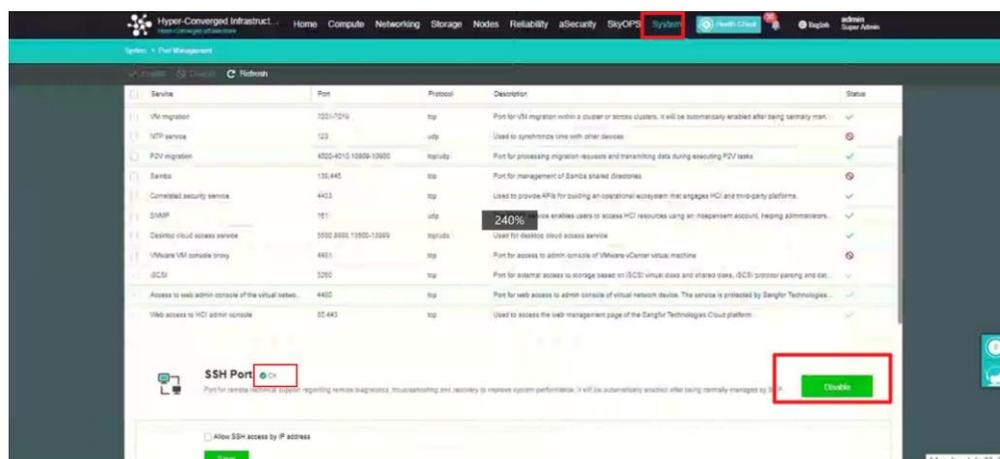


On Sangfor Checks, configure the **Task Settings** and click **Start**, as shown in the following figure.

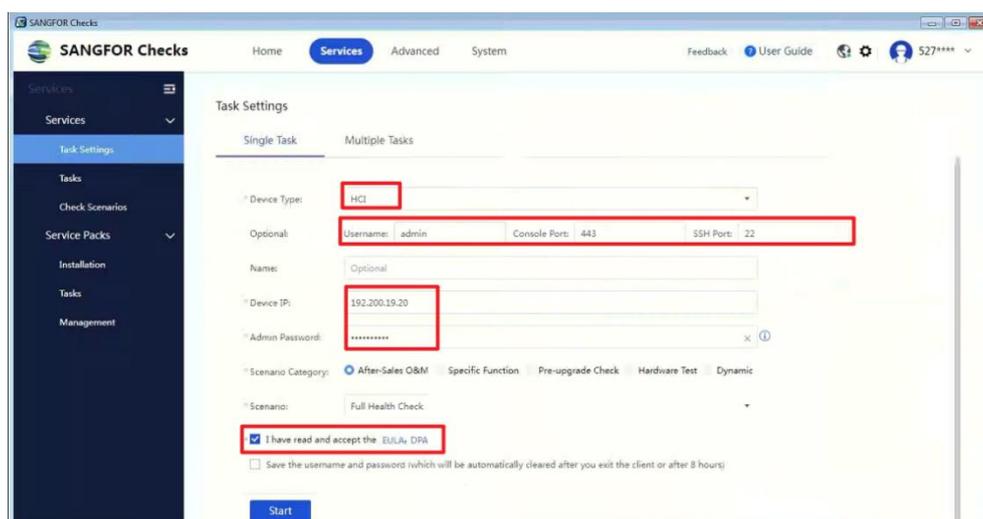


3.2.2.5 HCI Check

Log in to the HCI console, go to **System > Port Management**, and click **Enable** to make it **Disable** status. Disable the SSH port after the check is complete.

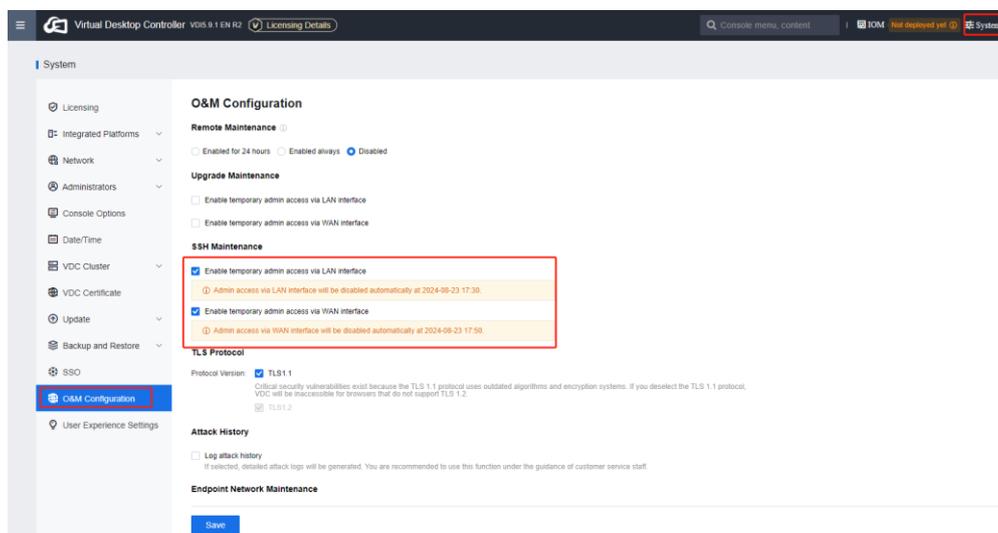


Configure the task settings and click **Start**, as shown in the following figure.

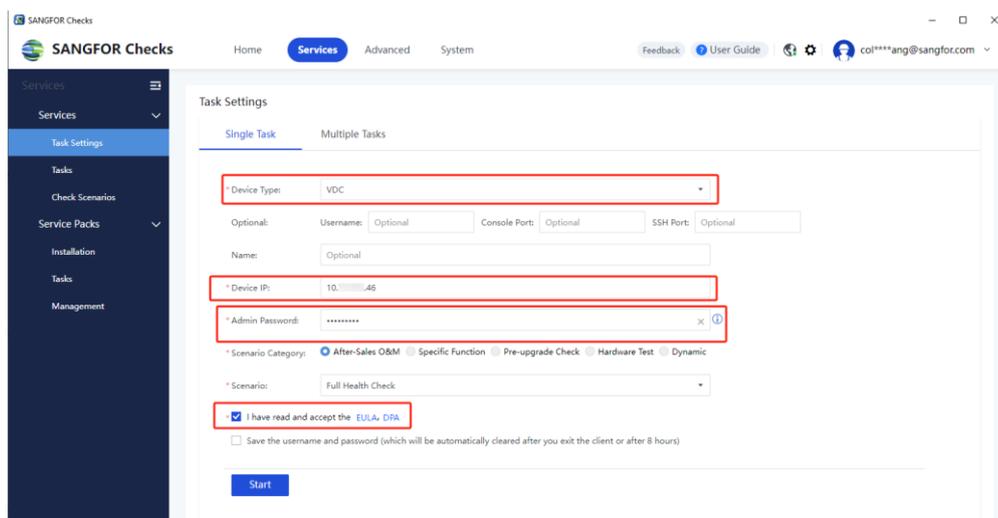


3.2.2.6 VDI Check

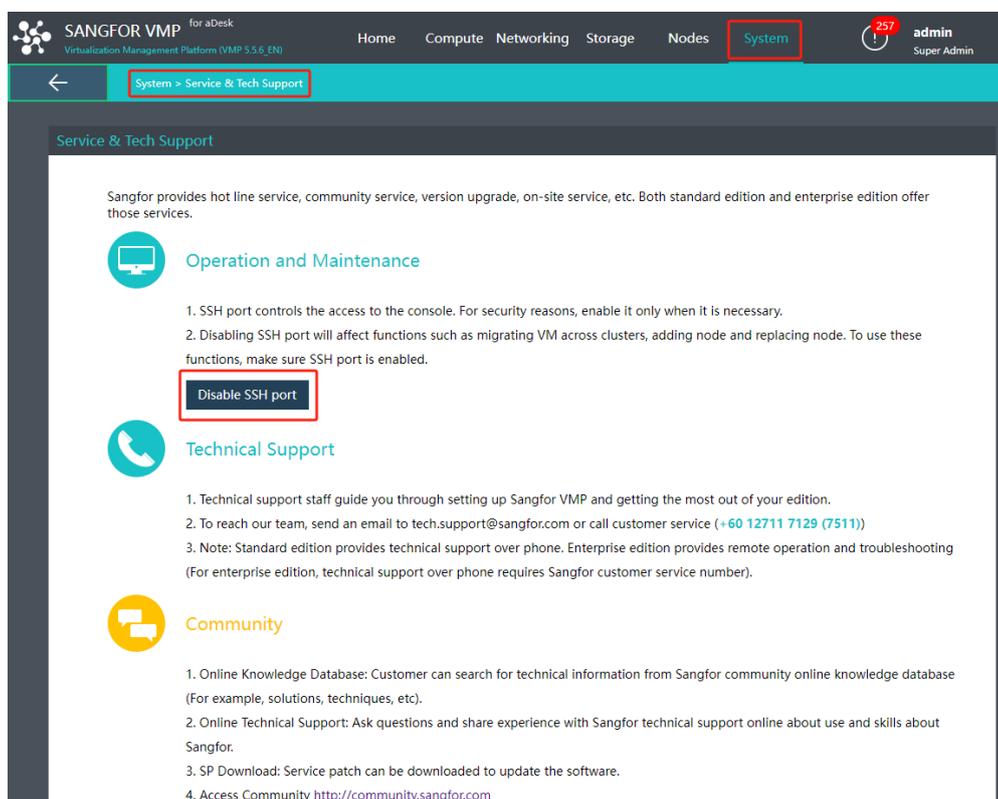
Log in to the VDC console and go to **System > O&M Configuration**. On the **SSH Maintenance**, select **Enable temporary admin access via LAN interface** or **Enable temporary admin access via WAN interface** area and click **Save**.



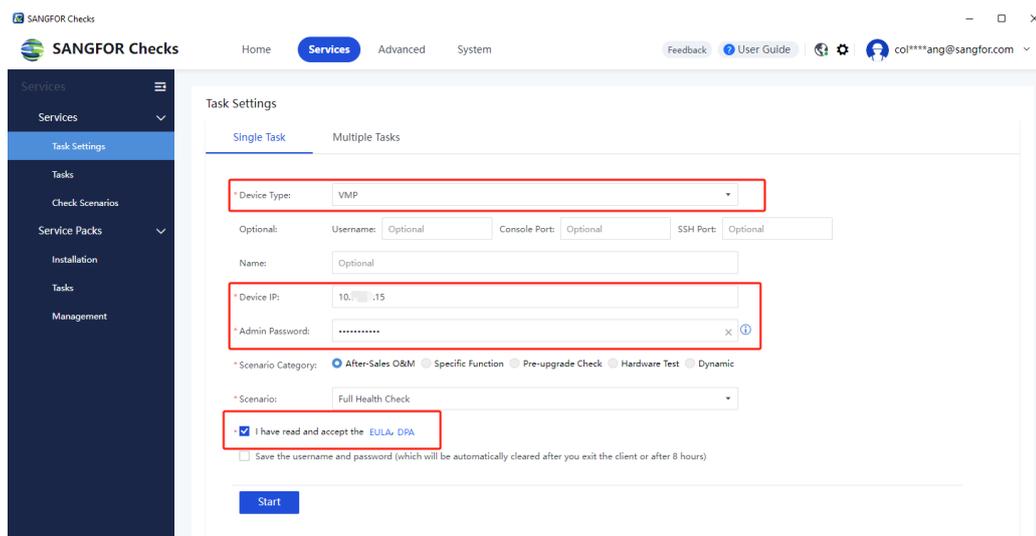
On Sangfor Checks, configure the **Task Settings** and click **Start**, as shown in the following figure.



Log in to the VMP console, go to **System > Service & Tech Support**, and click **Enable** to make it **Disable SSH port** status. Disable the SSH port after the check is complete.

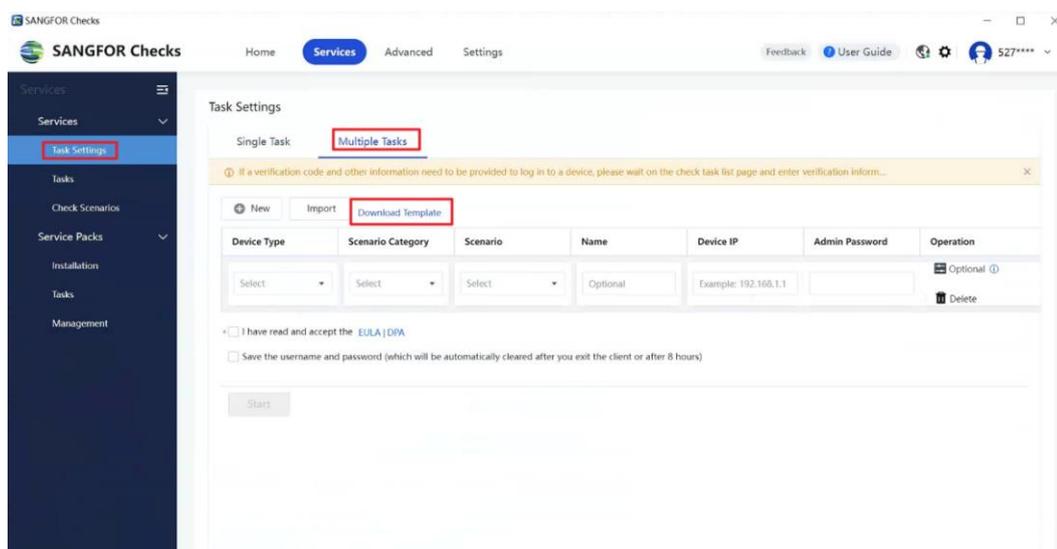


On Sangfor Checks, configure the **Task Settings** and click **Start**, as shown in the following figure.



3.2.3 Multiple Tasks

On Sangfor Checks, go to **Services > Task Settings**. On the **Multiple Tasks** tab, click **Download Template**.



Fill in the template according to the actual situation.

1 #Rows starting with a number sign (#) describe specific fields and are provided as filling-in instructions.

2 #1. Device Type: Mandatory. Fill in the type of the device to be checked. Notes: a) Fill in NSP for NGAF. b) Fill in LAG for DAG. c) Fill in Cyber Command for Cyber Command. d) Fill in Endpoint Secure for Endpoint Secure. e) Fill in Admin Password: Mandatory. Fill in the IP address of the device to be checked. Provide only one IP address for one device.

3 #2. Device IP: Mandatory. Fill in the IP address of the device to be checked. Provide only one IP address for one device.

4 #3. Admin Password: Optional. Fill in the console login password used to connect to the device. Note: It must be the password of the admin account. Other passwords are invalid. If this field is left blank, you need to manually fill in the password.

5 #4. Scenario Category: Optional. Valid values: After-Sales O&M, Specific Function, and Project Delivery. If this field is left blank, After-Sales O&M is used by default after the import, and the Scenario field is also left blank.

6 #5. Scenario: Optional. If this field is left blank, Standard (in which all check items are carried out) is used by default after the import.

7 #6. Username: Optional. If the admin account is renamed to another username, provide the new username. If this field is left blank, the default admin account username is used.

8 #7. Console Port: Optional. If the console login port of the device has been changed, provide the new login port. If this field is left blank, the default login port is used.

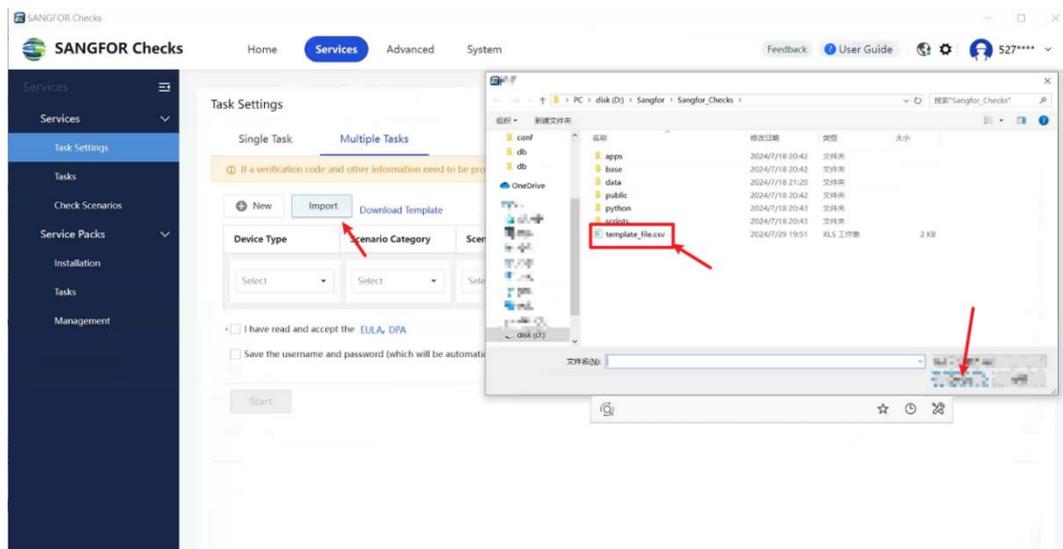
9 #8. SSH Port: Optional. If the default SSH port of the device has been changed, provide the new SSH port. If this field is left blank, the default SSH port is used.

10 #9. Name: Optional. The specified name will be displayed in the check record and can be used for filtering check records with the same name.

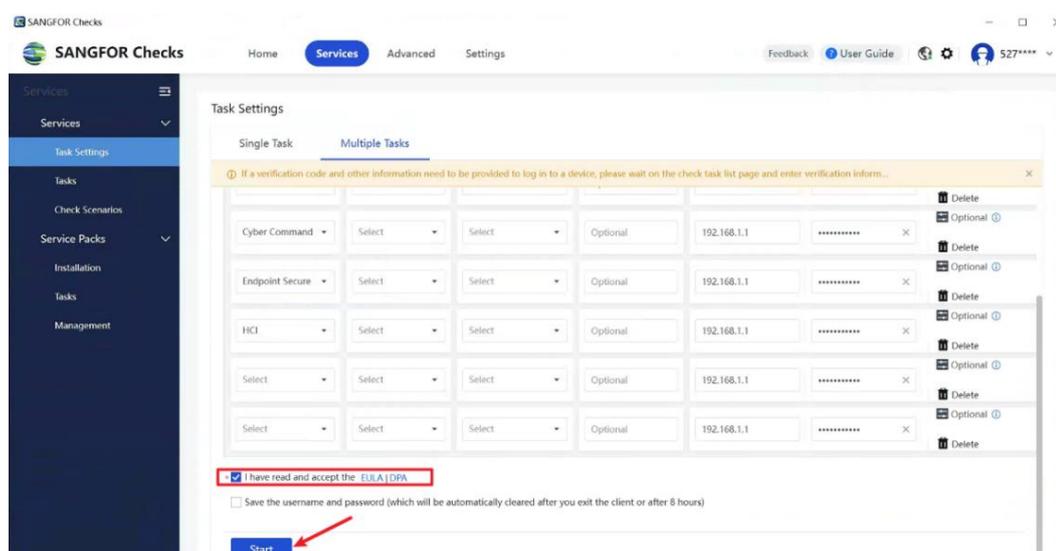
11 Device Type Device IP Admin Pass-Scenario (Scenario Username Console P-SSH Port Name

12	NGAF/NSP	192.168.1.1	password			
13	Cyber Command	192.168.1.2	password			
14	Endpoint Secure	192.168.1.3	password			
15	ICI	192.168.1.4	password			
16	VDC	192.168.1.5	password			
17	VMP	192.168.1.6	password			

Import the template.



Click **Start**.



3.2.4 Check Result

3.2.4.1 Tasks

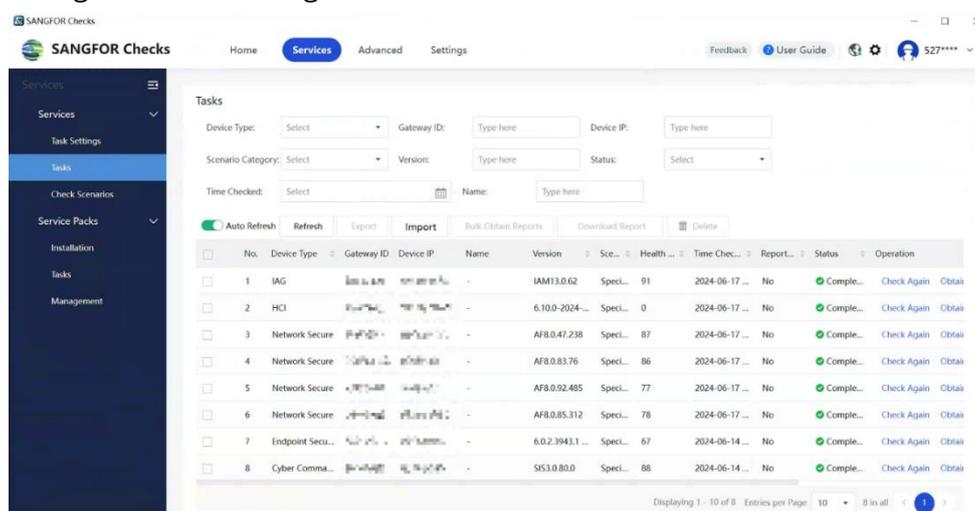
After completing the check, go to **Services > Tasks** to view the result. The following operations are supported.

Operation	Description
Check Again	Perform the check again. You can check abnormal entities only to speed up the process.
Obtain Report	Report the check result to check whether the device is running. Bulk operations are supported.
Report	View all entities' check results and fix recommendations for risky entities.
View Details	View the detailed check process.
Delete	Delete the check record. The deleted record cannot be restored; you can only perform another check to obtain data. Please operate with caution.
History	Only the latest record is displayed for a gateway ID. To view earlier records, click View All .
Import/Export	Import or export the check result from or to Sangfor Checks on another computer. Bulk operations are supported.
Bulk Obtain Reports	Select multiple check records and report them at a time.

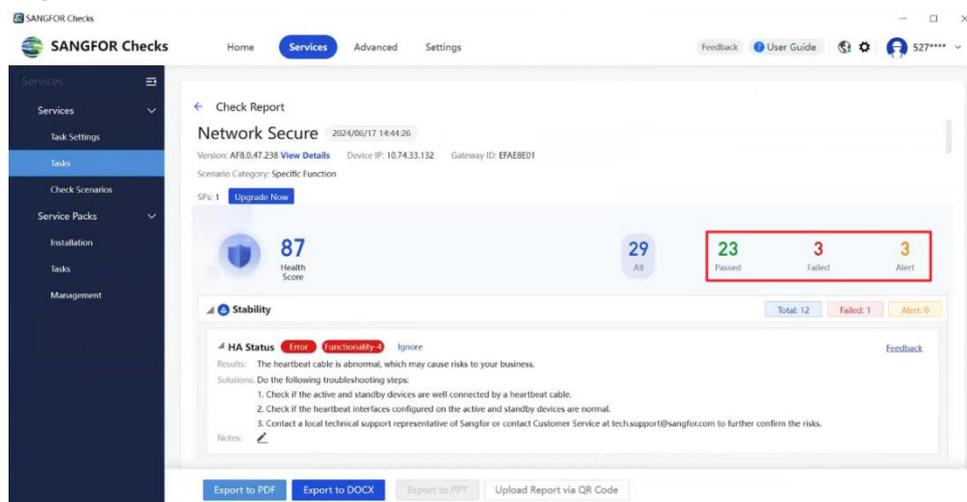
Download Report	Download one or more PDF or Word reports. If you select Export to DOCX , reports will be merged into one. Up to 40 reports can be merged.
Bulk Delete	Select multiple records and delete them at a time. The deleted records cannot be restored, and you can only perform another check to obtain data. Please operate with caution.
Continue	Ignore the pre-check errors and continue the check.

3.2.4.2 Check Report

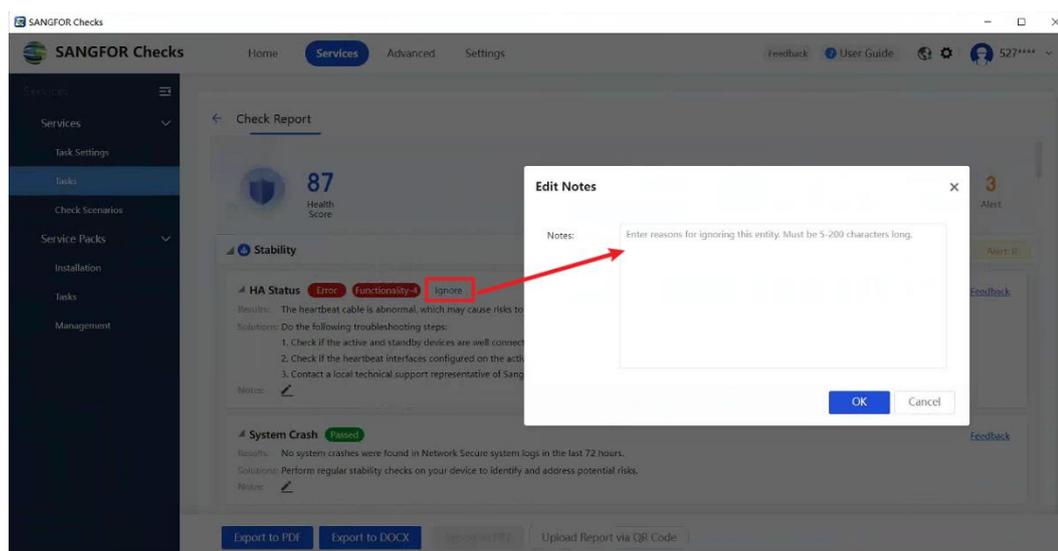
View a report: Go to **Services > Tasks**. On the **Tasks** page, click **Report** in the **Operation** column to view the report, including normal entities, abnormal entities, and alerts. You can filter entities by category and optimize the configuration according to the recommendations.



Download a report: Go to **Services > Tasks**. On the **Tasks** page, click **Report** in the **Operation** column. On the report details page, click **Export to PDF** or

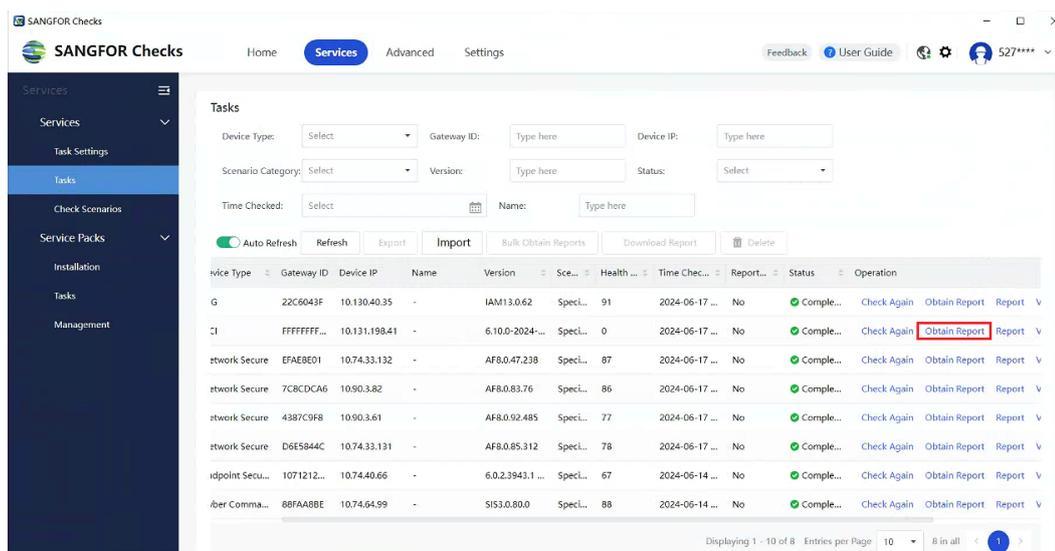
Export to DOCX at the bottom.

Ignore an entity: If an abnormal entity or alert cannot be fixed due to the environment or other issues, click **Ignore** next to the entity. In the **Edit Notes** pop-up window, enter the reason and click **OK**. No scores will be deducted for an ignored entity.



Upload a report. Go to **Services > Tasks**. On the **Tasks** page, click **Obtain Report** under the **Operation** column. If the message **Report obtained successfully** is shown, and the status in the **Reported** column has changed from **No** to **Yes**, it means the report has been uploaded.

After you click Obtain Report, device check information will be collected for operational analysis to provide better services.



3.2.5 Check Scenarios

3.2.5.1 Scenario Categories

Two scenario categories are available: **After-Sales O&M** and **Specific Functions**. Select the corresponding scenario as needed.

After-Sales O&M: Check the device's security and stability. In a typical after-sales scenario, check a device to ensure stable O&M.

Specific Functions: Some "Project Delivery Category" scenarios are predefined, such as **Standard Check** and **Continuous Threat Detection**, to check whether the functional configuration of devices meets requirements.

3.2.5.2 Predefined Scenarios

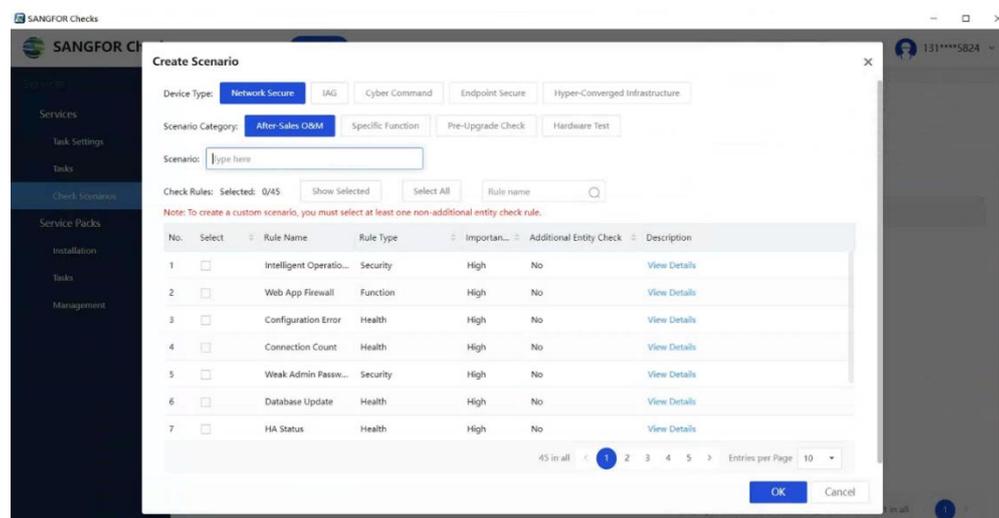
Predefined scenarios cannot be edited or deleted, including **Standard Check**, **Security Check**, and **Function Check**.

Scenario	Description
Standard Check	Check the devices' security and stability.
Security Check	Check the devices' security, such as open ports and weak passwords.
Function	Check the specific scenario functions and configurations according to the

Check	customer scenario.
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3.2.5.3 Custom Scenarios

Custom scenarios can be added, edited, and deleted. Please note that the scenario name must be unique.



3.3 Service Packs

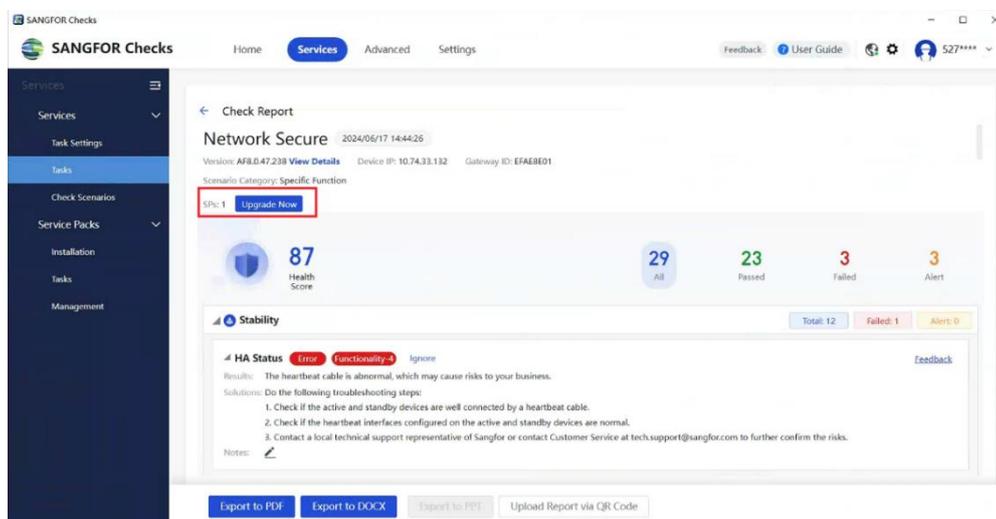
SPs are installed to update software to fix vulnerabilities, enhance performance, and improve other deficiencies. It ensures the device's security, stability, and functionality, effectively improving user experience, protecting system and data security, and maintaining software competitiveness. You are advised to pay close attention to SP release news, check or upgrade devices regularly, and back up and test to ensure a smooth upgrade. On Sangfor Checks, SPs need to be manually downloaded and installed.

3.3.1 Installation

SPs can be installed in two methods. **Method 1 is recommended** for accuracy and simplicity, which can detect available SPs on a device and provide an installation portal accordingly.

3.3.1.1 Method 1

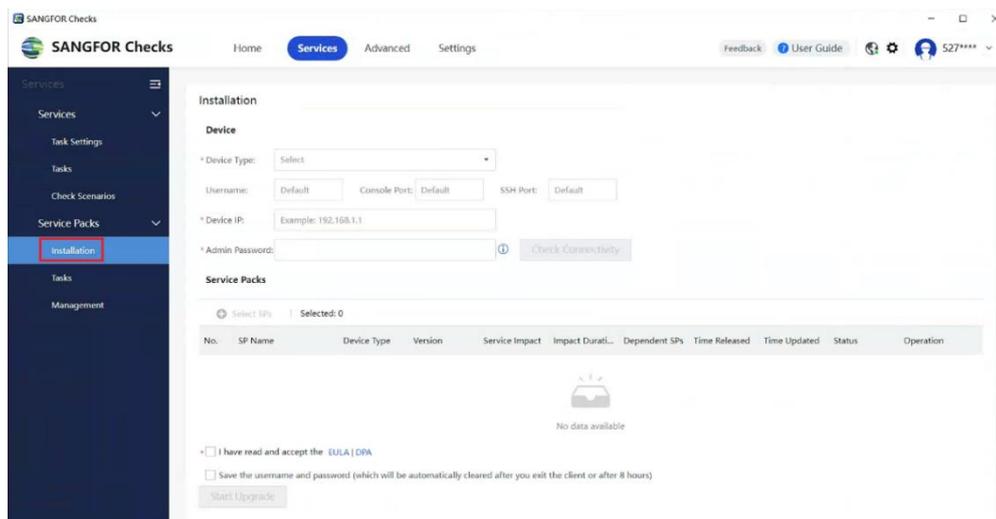
On the **Services > Tasks** page, click **Report** in the **Operation** column. On the report details page, if an SP is available, click **Upgrade Now**.



3.3.1.2 Method 2

Go to **Services > Service Packs > Installation**.

Configure the parameters and click **Start Upgrade**. You can install multiple SPs.



- **Device Type:** Select the corresponding device type.
- **Admin Password:** It is set to **admin** by default.
- **Device IP:** Example: 192.168.1.1

- **Select SPs:** Select the downloaded SPs of the device.
- **Optional: Username (admin by default), Console Port (51111 by default), SSH Port (22345 by default).**



The password set for **Admin Password** is valid for 8 hours and will be cleared after quitting Sangfor Checks.

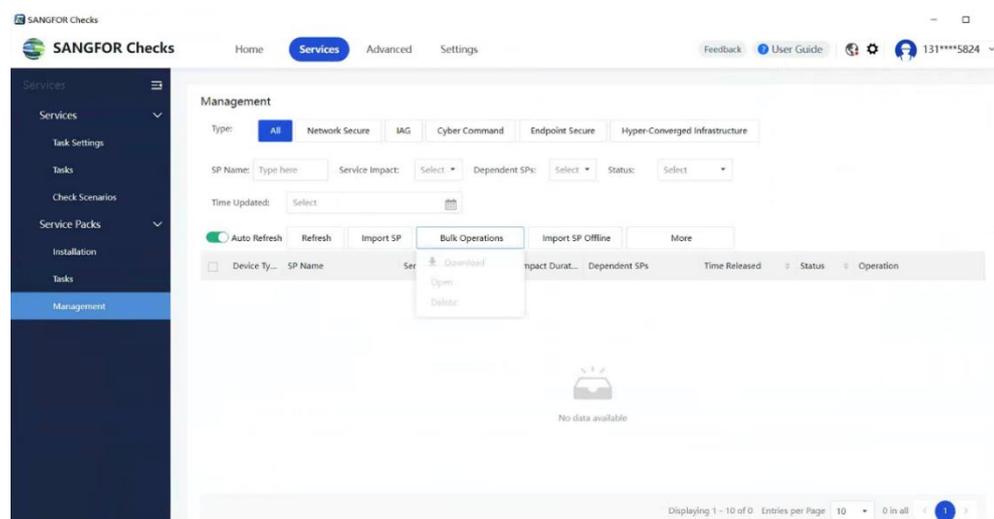
3.3.2 Tasks

This page shows ongoing or completed Health Check or SP installation tasks.

3.3.3 Management

3.3.3.1 SP Download

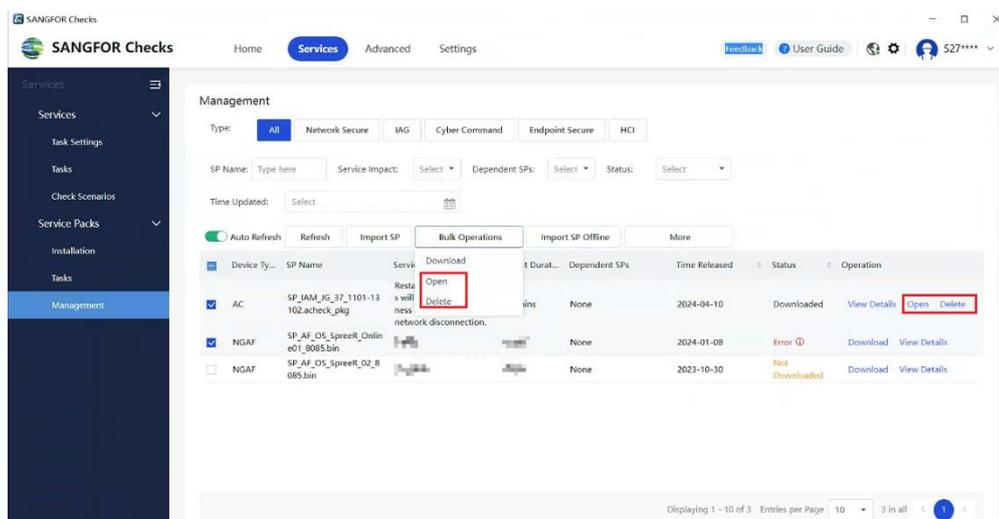
Go to **Services > Service Packs > Management**. On the **Management** page, click **Download** under the **Operation** column of an SP or select multiple SPs and select **Bulk Operations > Download**.



3.3.3.2 SP Export/Deletion

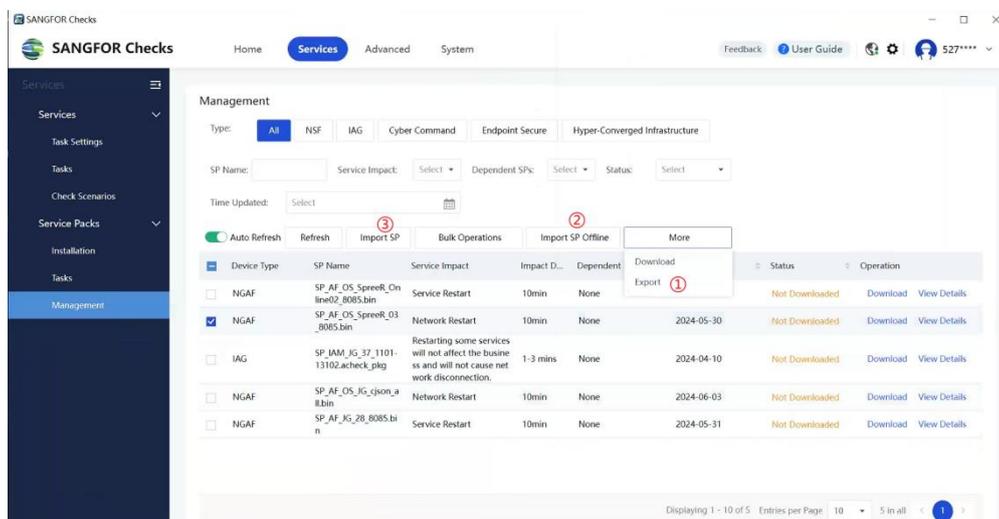
Go to **Services > Service Packs > Management**. On the **Management** page, click **Open** or **Delete** under the **Operation** column of an SP or select multiple

SPs and select **Bulk Operations > Open or Delete.**



3.3.3.3 SP Export

1. SP export: Choose More > Export to export SP information.
2. SP import: Click Import SP Offline to import the SP information obtained in step 1 and then click Import SP to import the SP.



3.4 Advanced

This menu contains different app modules.

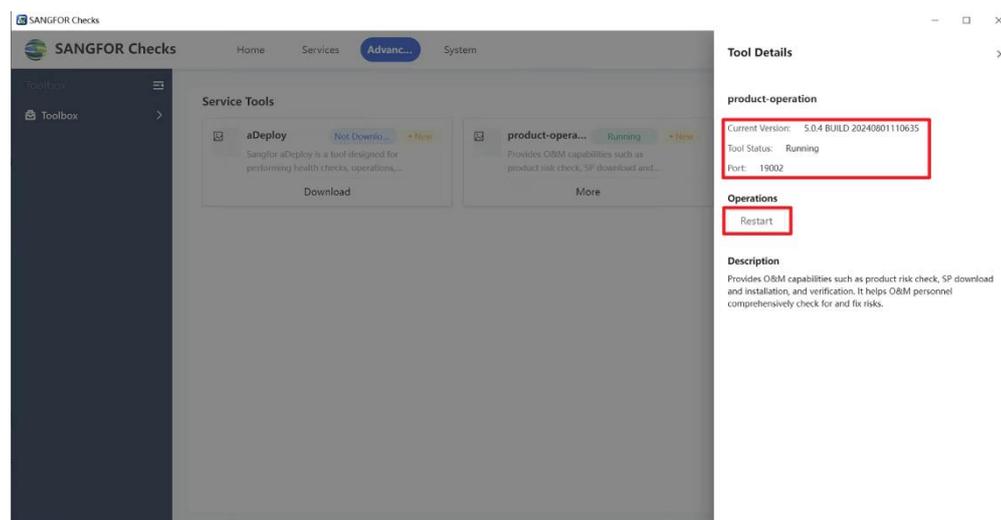
The product-operation, aDesk_tools, and aDeploy apps in the Service Tools module will be automatically started after SANGFOR Checks is started. If a check task fails, a manual restart is required for these tools.

product-operation: It is used for device check and SP installation.

aDesk_tools: It is used for VDI checks.

aDeploy: It is used for HCI checks.

Click **More** of an app module to view details, including the **Port** and **Current Version**.



3.5 System

3.5.1 Settings

Check Timeout: A check task takes not more than 20 minutes.

Concurrent Tasks: It specifies the number of concurrent check tasks.

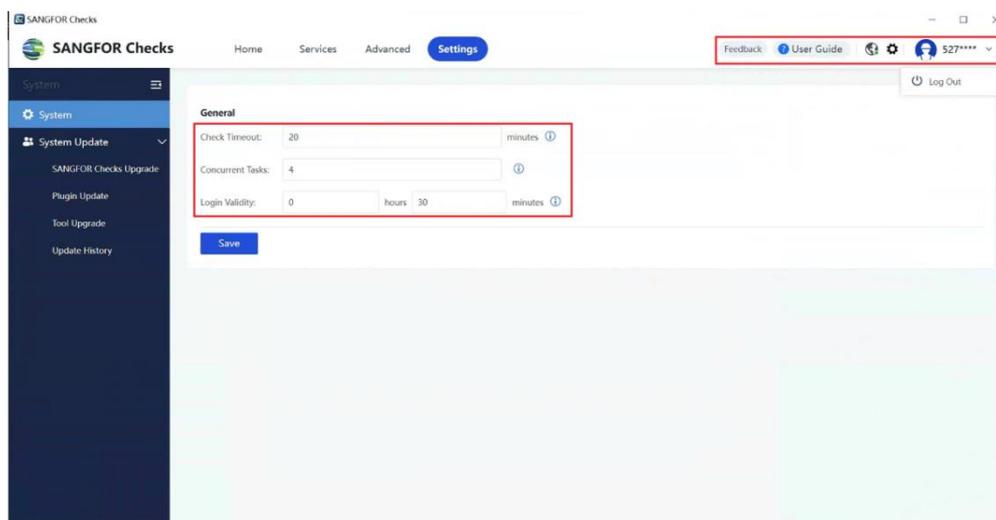
Login Validity: If it is set to 30 minutes, a logged-in user will be logged out automatically after 30 minutes.

Feedback: Allows users to submit feedback on the device.

 : Check whether the SANGFOR Checks client is online.

 : Configure system settings and get logs.

 527**** : You can click **Log out** after completing your tasks.



3.5.2 System Upgrade

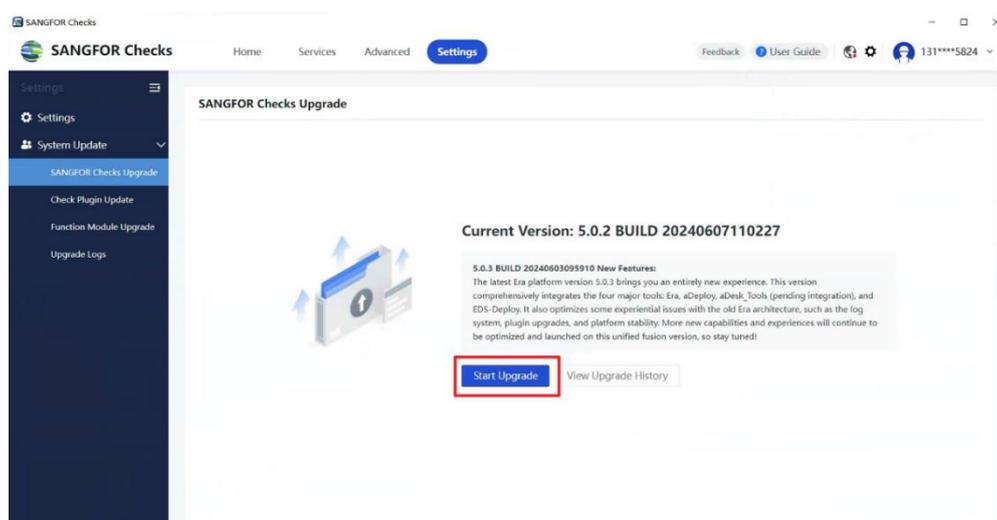
SANGFOR Checks upgrade is divided into four sections:

4. SANGFOR Checks framework update
5. Update of device plugins supported by SANGFOR Checks
6. Update of function modules of SANGFOR Checks
 - (1) Function modules include **Services**, **Base**, and **Advanced**.
 - (2) These function modules can be updated separately.
7. Update history
 - (1) Provides update records of function modules and plugins on SANGFOR Checks.

3.5.3 SANGFOR Checks Upgrade

If a new version is available for SANGFOR Check, and the computer where SANGFOR Checks runs is connected to the Internet, go to **Settings > System Update > SANGFOR Checks Upgrade** and click **Start Upgrade**. After the

upgrade, SANGFOR Checks will be restarted automatically.



3.5.4 Check Plugin Update

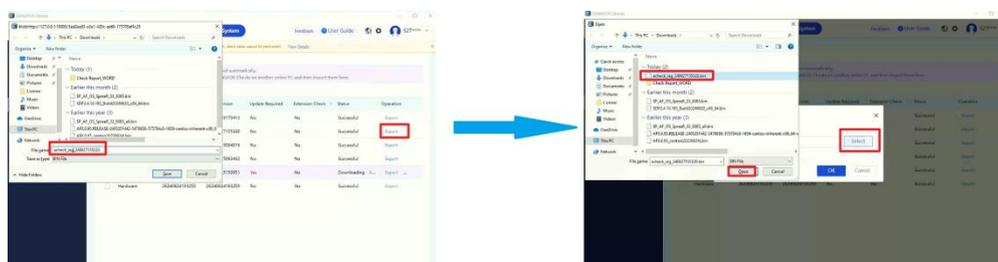
3.5.4.1 Online Update

If the computer where SANGFOR Checks runs is connected to the Internet, SANGFOR Checks is upgraded automatically.

3.5.4.2 Offline Update

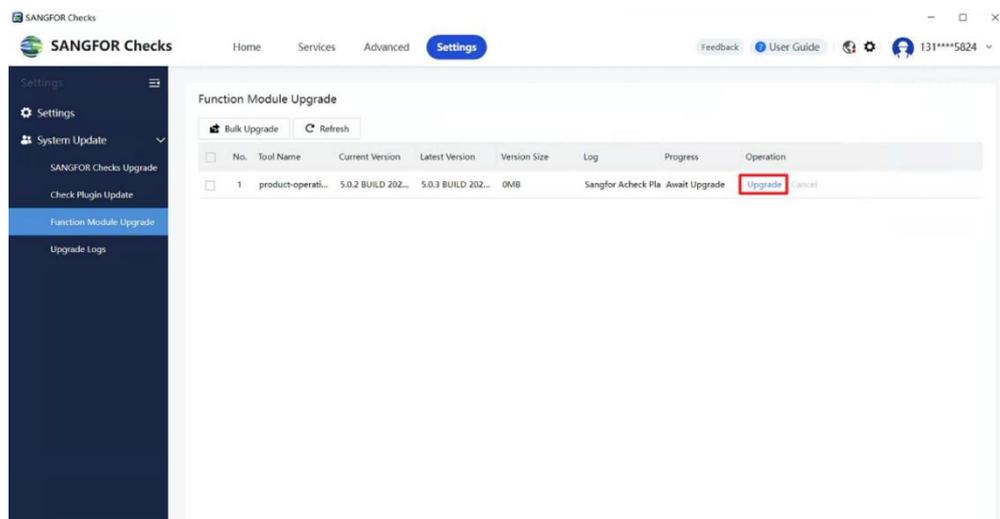
Method 1: Copy the directory of SANGFOR Checks to an online environment, update all plugins, and copy the directory again to the offline environment.

Method 2: Export one or more plugins from an online environment, copy the exported .bin files to the offline environment, and import them back to the online environment.



3.5.5 Tool Upgrade

If a new version is available for the **Base**, **Services**, or **Advanced** function module, the **Upgrade** button in the **Operation** column will become available on the **Function Module Upgrade** page.



3.5.6 Upgrade History

Provide upgrade history of function modules and plugins on SANGFOR Checks.

