A secure method for using HCP self-signed certificate in Chrome

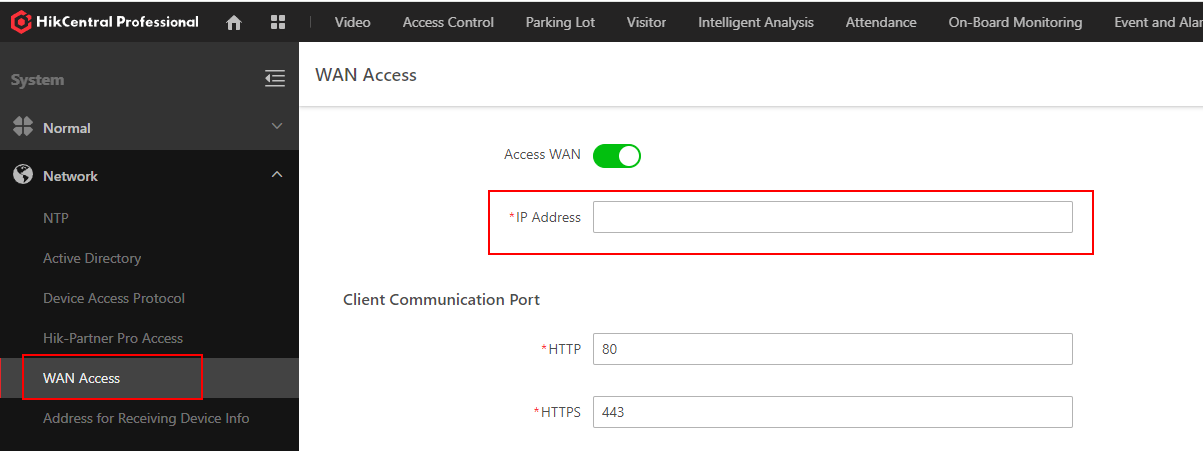
# Description

HCP2.5 has switched from default HTTP communication to HTTPS communication. However, in the Chrome browser, the self-signed certificate used by HCP is not trusted and displays an "insecure" prompt. This will have some negative impact on customers psychologically, affecting the reputation of HCP products. So, it is necessary to make the self-signed certificate used by HCP become secure state in Chrome.

# Operation steps

## 2.1 Prerequisite

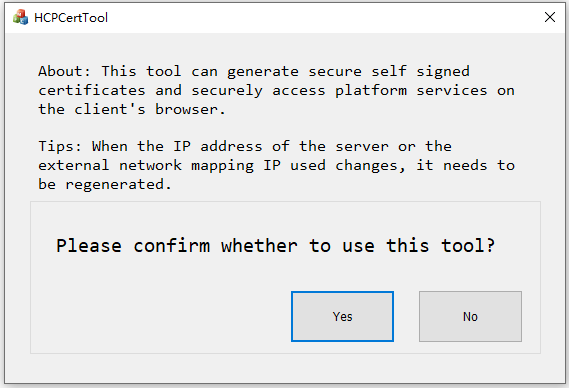
1. Install the HCP software
2. Normally start the watchdog
3. The server is configured with a correct network environment
4. If there is a need for internal and external network configuration, it should be completed together, as shown in the following figure



## 2.2 Concrete Operation

1. Provide a tool for customers to generate self-signed certificates HCPCertTool.exe

The customer runs the HCPCertToolexe program on the server where HCP is installed. After reviewing the instructions, click "Yes" to regenerate the certificate required for HCP and automatically replace it in the HCP service, without the need for users to manually replace it.



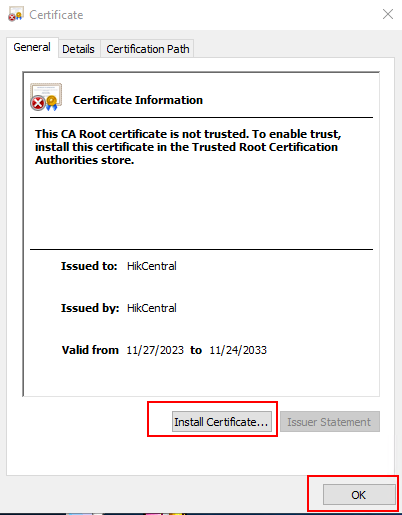
1. The customer found the Root.crt certificate in the folder where the program was running. Copy it and put it on every computer that install the HCP control client. On each computer, run Root.crt certificate with administrator privileges, import into trusted certificate list. For specific steps, please refer to "Import Root.crt Certificate Steps". And ensure to clear the chrome cache on the computer. If the user needs to access HCP through Chrome on the HCP server. The operation steps are the same.
2. After completing the above three steps, the "security" certificate can be displayed correctly when accessing the HCP web page.

## 2.3 Suitable usage scenarios

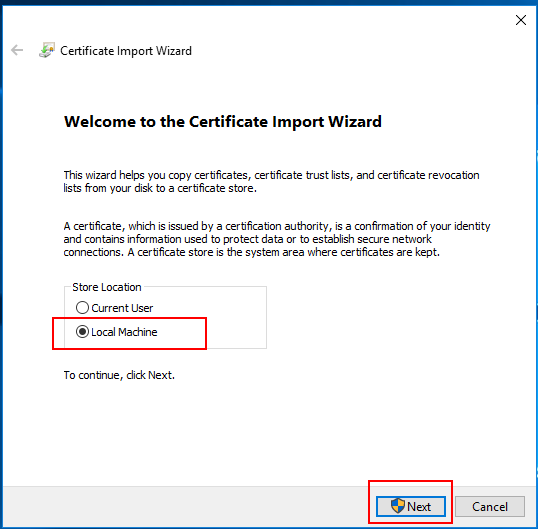
1. The customer is using the HCP platform with self-signed certificate normally, but the certificate shows as "unsafe"
2. If the IP address of the HCP service changes, including the WAN address mapped externally, the user needs to perform the " Concrete operation" again 1-3

# Import Root.crt Certificate Steps

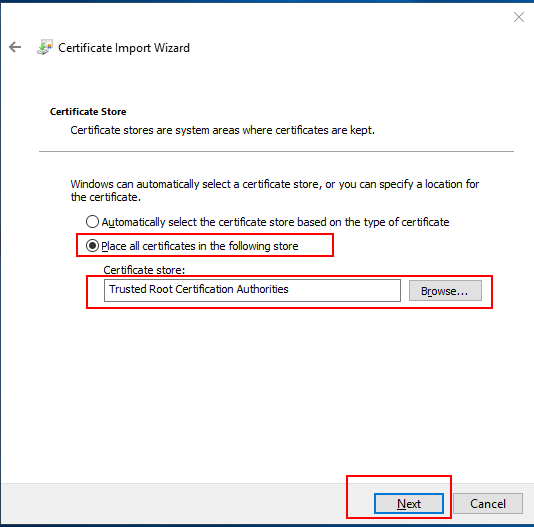
1. Run the certificate with administrator privileges, select “Install Certificate...: .



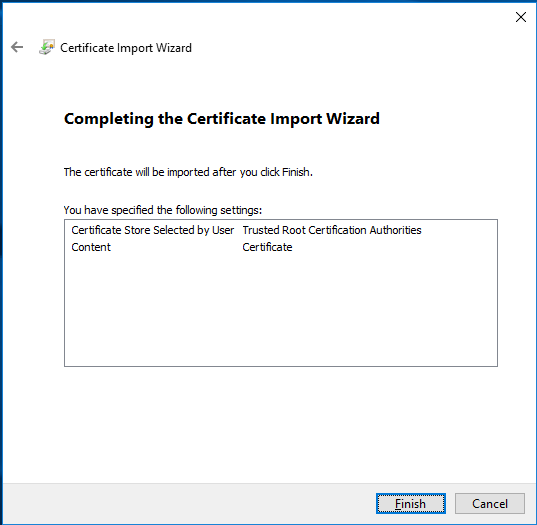
1. Select “Local Machine”。

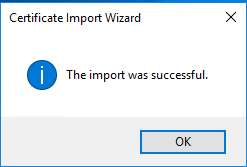


1. Select “Place all Certificates in the following store--Browse--“Trusted Root Certification Authorities”。



1. Complete, wait for the completion result

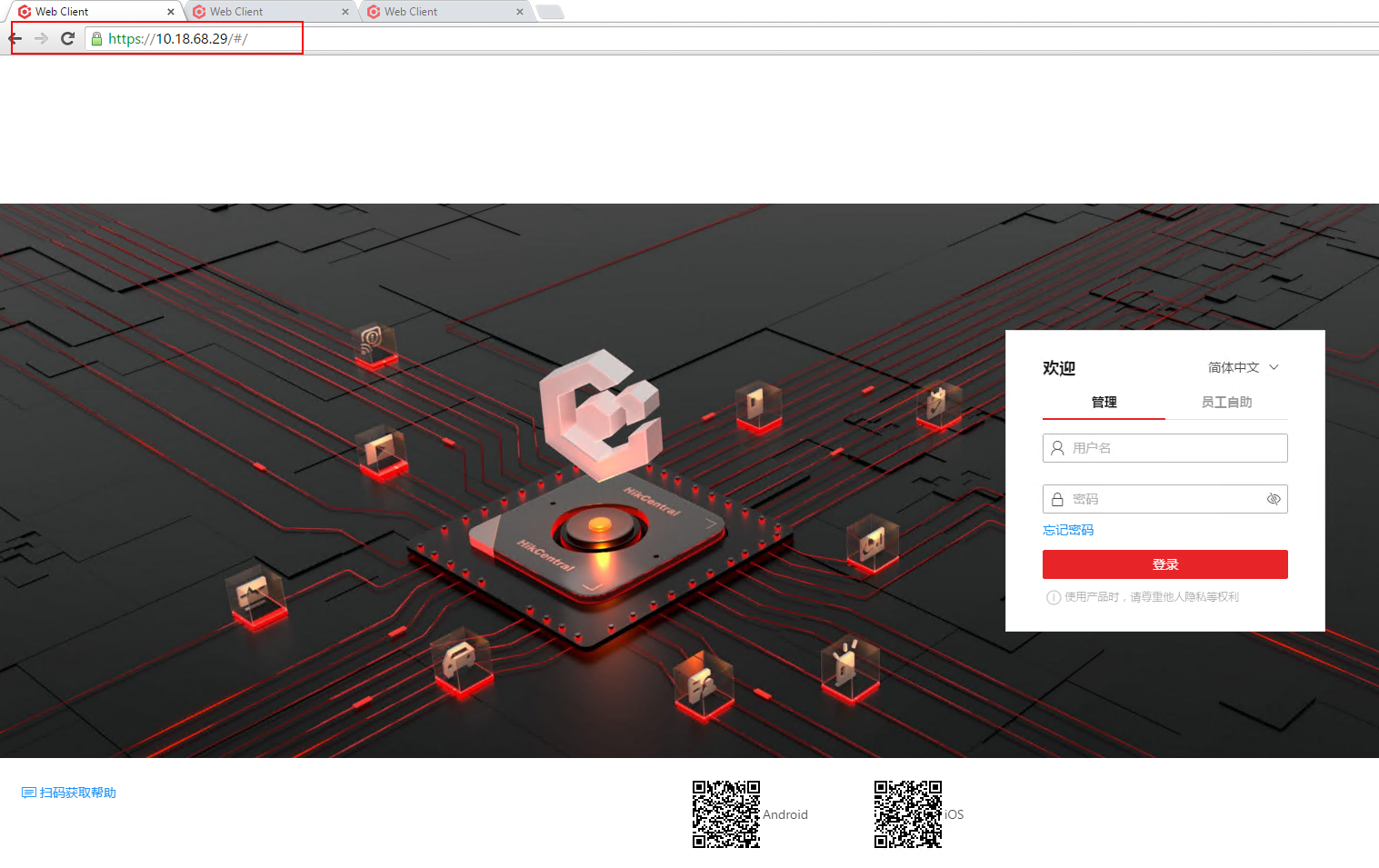




1. Clear Chrome cache

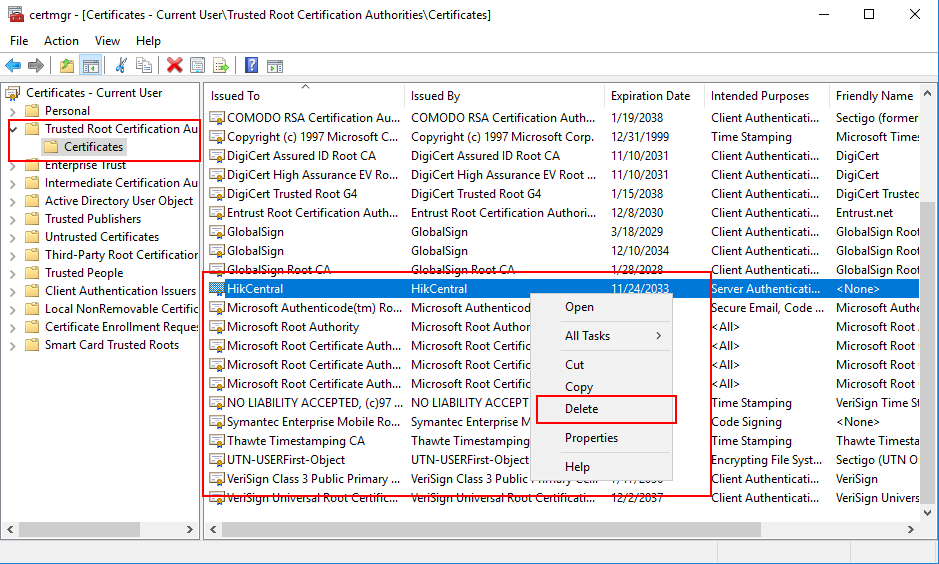


1. Continue to access HCP web page



# Other precautions

1. If the certificate is changed, The certificate needs to be imported again on the computer where the client is installed. Run "Certmgr. msc" in win+r first. Delete the previously imported certificate. Then import the new Root.crt certificate



1. If the user purchases the certificate themselves and imports it into the platform, the platform will prioritize using the user's self purchased certificate.