

Hikvision

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A Comprehensive Guide to Configuring Hikvision NVRs: From Activation to Troubleshooting

Introduction

At Secured Volts, we pride ourselves on delivering seamless and secure surveillance solutions for our clients. To ensure the highest level of service, our technicians and installers need to be well-versed in configuring Hikvision NVRs and cameras. This comprehensive guide will walk you through the entire process, from activation to troubleshooting common issues.

1. Activating the NVR and Cameras

- a. Local Activation (NVR Interface)
- b. Camera Activation (Local)
- c. SADP Tool Activation (NVR and Cameras)

2. Network Configuration

- a. IP Address Assignment
- b. Configuring Port Settings
- c. Enabling UPnP

3. Adding Cameras to the NVR

- a. Local Camera Registration (NVR Interface)
- b. Remote Camera Detection (Using Quick Scan and Browser)

4. Configuring DDNS for Remote Access

- a. Signing Up for a DDNS Service
- b. Setting Up DDNS in the NVR
- c. Configuring the Router for DDNS Updates

5. Troubleshooting Common Issues

- a. Activation Problems
- b. Network Issues
- c. Port Issues
- d. UPnP-related Problems
- e. DDNS Issues

Conclusion

As Secured Volts technicians and installers, it is essential to have a deep understanding of Hikvision NVR and camera configuration. This comprehensive guide aims to equip you with the knowledge required to handle various installation scenarios and troubleshoot common issues. By following these guidelines, you can ensure a smooth and secure surveillance experience for our clients.

For the detailed guide, please visit [\[link to the comprehensive guide\]](#). If you have any questions or need further clarification, don't hesitate to reach out to our support team.

Dear Secured Volts technicians and installers,

This guide aims to provide you with a clear and concise explanation of the steps involved in activating and configuring Hikvision cameras for our installations. As professionals, it is crucial to follow these steps to ensure the security and proper functioning of our clients' surveillance systems.

1. Local Activation (NVR Interface)

- a. Connect the NVR to a monitor using an HDMI or VGA cable.
- b. Power on the NVR by connecting it to an electrical outlet.
- c. Wait for the system to boot up and display the activation screen.
- d. Create a strong, unique password for the admin account.
- e. Optionally, set up password recovery using email or a security question.
- f. Finish the activation process by following the on-screen prompts.

2. Camera Activation (Local)

- a. Temporarily disable PoE (Power over Ethernet) on the NVR or switch to avoid potential IP conflicts.

- b. Connect the camera to the network using an alternative power source (e.g., a 12V DC adapter or a separate PoE switch).
- c. Access the camera's web interface by typing its default IP address (usually 192.168.1.64) into your web browser.
- d. Log in using the default credentials (username: admin, password: blank).
- e. Follow the on-screen prompts to create a strong, unique password for the camera.
- f. Optionally, set up password recovery using email or a security question.
- g. Complete the activation process and make a note of the camera's IP address.

3. SADP Tool Activation (NVR and Cameras)

- a. Download, install, and launch the SADP tool on your computer.
- b. Ensure your computer, NVR, and cameras are connected to the same network.
- c. Temporarily disable PoE on the NVR or switch to avoid potential IP conflicts.
- d. The SADP tool will automatically detect Hikvision devices on the network.
- e. Select the unactivated device (NVR or camera) from the list and click "Activate."
- f. Enter a strong, unique password for the selected device and confirm it.
- g. Optionally, set up password recovery using email or a security question.
- h. Finish the activation process by clicking "OK."

Finding Cameras via HTTP Browser

To find and manage cameras using an HTTP browser, follow these steps:

- a. Ensure the camera and your computer are connected to the same network.
- b. Open your web browser and enter the camera's IP address (either the default or the one assigned during activation).
- c. Log in using the camera's credentials (username: admin, password: the unique password you created during activation).
- d. Once logged in, you can access and configure the camera settings as needed.

Reason for Turning Off PoE to Find Cameras

As professionals, it is essential to understand that turning off PoE on the NVR or switch when activating and finding cameras helps to avoid IP conflicts. Many cameras come with a default IP address (e.g., 192.168.1.64). If multiple cameras with the same default IP address are connected to the network simultaneously, it can cause IP conflicts and make it difficult to access and configure each camera individually. By temporarily disabling PoE and connecting the cameras one by one, you can avoid these issues and ensure a smoother setup process for our clients.

Please follow these guidelines closely when working on Secured Volts installations to ensure optimal performance and security for our clients' surveillance systems. If you have any questions or need further clarification, feel free to contact our support team.

In addition to the previous guide, we would like to share an alternative method for detecting Hikvision cameras remotely using Quick Scan on the browser side. This technique is particularly

useful when you are not on the job site and don't have access to the SADP tool.

1. Turn Off PoE

As previously mentioned, turning off PoE on the NVR or switch is crucial to avoid IP conflicts during the camera detection process. Another reason for turning off PoE on the browser side is to free up space when using the Quick Scan feature. This enables the detection of local cameras connected to a PoE switch remotely.

2. Quick Scan

Quick Scan is a convenient feature for detecting cameras without the SADP tool. Follow these steps to detect cameras remotely using Quick Scan:

a. Ensure that the camera and your computer are connected to the same network. b. Open your web browser and access the Hikvision NVR web interface by entering the NVR's IP address. c. Log in using the NVR's credentials (username: admin, password: the unique password you created during activation). d. Navigate to the camera registration page (usually under Menu > Camera > Registration). e. Click on "Quick Scan" to initiate a search for connected cameras. f. The NVR will scan the local network for Hikvision cameras, displaying them in the list once detected. g. Assign each camera a unique channel number and save the settings.

By using Quick Scan, you can efficiently detect and configure Hikvision cameras remotely, even without access to the SADP tool. This method is particularly useful when providing off-site support or managing multiple installations.

Please incorporate this technique into your repertoire for Secured Volts installations, as it can save time and effort in various situations. Should you have any questions or need further clarification, don't hesitate to reach out to our support team.

Activating the NVR and Cameras: Local Activation (NVR Interface)

Introduction

Activating your Hikvision NVR and cameras is a crucial step in setting up a secure and reliable surveillance system. In this guide, we will focus on the local activation process using the NVR interface. Following these steps will help ensure the security of your devices and prevent unauthorized access.

1. Local Activation (NVR Interface)

- a. Connect the NVR to a monitor: Use an HDMI or VGA cable to connect your NVR to a monitor. This will allow you to view and interact with the NVR interface.
- b. Power on the NVR: Connect the NVR to an electrical outlet using the provided power adapter. The NVR should power on and begin booting up.
- c. Wait for the activation screen: The NVR may take a few moments to boot up. Once it's ready, the activation screen will be displayed on the monitor.
- d. Create a unique password: At the activation screen, you will be prompted to create a strong and unique password for the admin account. This password is crucial for protecting your system from unauthorized access, so be sure to choose a password that is not easily guessable.
- e. Set up password recovery: To ensure that you can recover your password if it's forgotten, you can set up password recovery using an email address or a security question. Follow the on-screen prompts to set up your preferred recovery method.
- f. Complete the activation process: Once you have created a password and set up password recovery, follow the remaining on-screen prompts to finish activating your NVR. The NVR should now be activated and ready for use.

Conclusion

Local activation using the NVR interface is a straightforward process that secures your devices and prevents unauthorized access. By following the steps outlined in this guide, you can ensure that

your Hikvision NVR is activated correctly and ready for further configuration. In subsequent guides, we will discuss other aspects of setting up your Hikvision surveillance system, including camera activation, network configuration, and adding cameras to the NVR.

Activating Hikvision Cameras: Local Activation

Introduction

After activating your Hikvision NVR, it's essential to activate each camera in your surveillance system. Local camera activation ensures that every device in your system is secured and protected from unauthorized access. This guide will provide you with a step-by-step process for locally activating Hikvision cameras using a PoE switch and the SADP tool.

1. Camera Activation (Local)

- a. Connect the camera to the PoE switch: Connect each camera to a PoE switch, ensuring that they receive power and network connectivity during the activation process.
- b. Download and launch the SADP tool: Download the SADP tool from the Hikvision website and install it on your computer. Launch the tool once the installation is complete.
- c. Detect cameras on the network: The SADP tool will automatically detect Hikvision devices on the network, including the cameras connected to the PoE switch. You should see a list of all connected cameras within the SADP tool interface.
- d. Change the IP address (if necessary): If there are any IP conflicts among the connected cameras, use the SADP tool to assign a unique IP address to each camera. This helps prevent potential issues when adding cameras to the NVR.
- e. Activate each camera: Select an unactivated camera from the list in the SADP tool and click "Activate." You will be prompted to create a strong, unique password for the camera. Enter the new password, confirm it, and click "OK" to finish the activation process.
- f. Set up password recovery: To ensure you can recover the camera's password if it's forgotten, set up password recovery using an email address or a security question. Follow the on-screen prompts to set up your preferred recovery method.
- g. Repeat the process for all cameras: Activate each camera on the network by repeating steps e and f for every unactivated camera listed in the SADP tool.

Conclusion

Local activation of Hikvision cameras using a PoE switch and the SADP tool is a crucial step in setting up a secure surveillance system. This method streamlines the process and helps save time compared to logging in to each camera individually. By following the process outlined in this guide, you can ensure that each camera in your system is protected from unauthorized access. Once all cameras are activated, you can proceed with further configuration, such as adding the cameras to your NVR and setting up remote access.

Adding Cameras to the NVR: Local Registration and Remote Detection

Adding Cameras to the NVR: Local Registration and Remote Detection

Introduction

Once your Hikvision NVR and cameras are activated, the next step is to add the cameras to the NVR for seamless surveillance. This guide will cover two methods for adding cameras to your NVR: local camera registration using the NVR interface and remote camera detection using Quick Scan and a browser.

1. Local Camera Registration (NVR Interface)

- a. Access the NVR interface: Connect the NVR to a monitor using an HDMI or VGA cable and log in with your admin credentials.
- b. Navigate to the camera registration page: In the NVR interface, go to Menu > Camera > Registration.
- c. Search for cameras: Click on the "Search" button to initiate a search for connected cameras on the network. The NVR will display a list of detected cameras.
- d. Add cameras to the NVR: For each camera detected, assign a unique channel number and click the "Add" button to register the camera with the NVR. Save the settings once all cameras have been added.

2. Remote Camera Detection (Using Quick Scan and Browser)

- a. Connect the camera and computer to the same network: Ensure that the camera and your computer are connected to the same local network.
- b. Access the NVR web interface: Open a web browser on your computer and enter the NVR's IP address to access the NVR web interface. Log in with your admin credentials.
- c. Navigate to the camera registration page: In the NVR web interface, go to Menu > Camera > Registration.

d. Disable PoE on unused camera ports: In order to use the Quick Scan feature effectively, you need to have camera slots available. To do this, disable PoE on the camera port slots you're not using. This will free up slots for Quick Scan to detect remote cameras.

e. Initiate Quick Scan: Click on "Quick Scan" to start a search for connected cameras on the network. The NVR will display a list of detected cameras.

f. Add cameras to the NVR: Assign each camera a unique channel number and click the "Add" button to register the camera with the NVR. Save the settings once all cameras have been added.

Adding cameras to your Hikvision NVR is a crucial step in setting up your surveillance system. By following the methods outlined in this guide, you can efficiently add cameras to your NVR using both local and remote techniques. With your cameras properly registered, you can proceed with further configuration, such as network settings and remote access setup, to ensure a comprehensive and secure surveillance solution.