

# RESETTING HARDWARE FOR RED TEAMER



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# RESET HARDWARE CHEATSHEET

Device	Reset Instructions
Cisco ASA Firewall	Power cycle 5 times, enter ROMMON mode, conf factory-default .
Siemens SIMATIC S7-1200 PLC	Power cycle 3 times, hold MRES button, release when STOP LED flashes.
Palo Alto PA-220 Firewall	Power cycle 5 times, boot into maintenance mode, select Factory Reset.
Ubiquiti EdgeRouter X	Power cycle 3 times, hold reset button for 15 seconds.
Schneider Electric Modicon M221 PLC	Power cycle 3 times, hold reset button for 10 seconds.
Honeywell Experion PKS Controller	Power cycle 4 times, hold reset button for 30 seconds.
Hikvision DS-7600 NVR	Power cycle 3 times, hold reset button for 20 seconds.
APC Smart-UPS SMT1500RM2U	Power cycle 5 times, hold reset button for 10 seconds.
GE RX3i Controller	Power cycle 3 times, hold reset button for 15 seconds.
Cisco Catalyst 2960 Switch	Power cycle 5 times, hold mode button for 10 seconds.
Rockwell CompactLogix 1769-L16ER PLC	Power cycle 3 times, hold reset button for 10 seconds.
Juniper EX2200 Switch	Power cycle 3 times, hold reset button for 10 seconds.
Siemens SIMATIC S7-1500 PLC	Power off and on 4 times, hold MRES button for 10 seconds.
Dell PowerEdge R640 Server	Power cycle 5 times, hold reset button for 15 seconds.
Fortinet FortiGate 30E Firewall	Power cycle 5 times, hold reset button for 20 seconds.

## 1. Cisco ASA 5500 Series Firewall

- **Vendor:** Cisco
- **Model:** ASA 5505, ASA 5516-X
- **Industry:** Enterprise Networks
- **Objective:** Reset firewall to disrupt configurations and force use of default credentials.
- **Instructions:**
  1. Power cycle the device **5 times rapidly** (5 seconds between each cycle).
  2. After the fifth reboot, the device will enter **ROMMON mode**.
  3. Use the command `conf factory-default` to restore to factory defaults.
  4. Reboot, and access the device with default credentials (`admin/admin`).
- **Impact:** Firewall rules, VPN, and user settings are wiped out.

**Reference:** Cisco ASA Configuration Guide.



## 2. Siemens SIMATIC S7-1200 PLC

- **Vendor:** Siemens
- **Model:** SIMATIC S7-1200
- **Industry:** Industrial Control Systems (ICS)
- **Objective:** Reset PLC controlling critical industrial processes.
- **Instructions:**
  1. Power cycle the PLC **3 times** (5 seconds between cycles).
  2. Press and hold the **MRES button** for 3-5 seconds until the STOP LED flashes.
  3. Release and press again for 10 seconds until the LED stays solid.
  4. The PLC will reset to factory defaults.
- **Impact:** All control programs and configurations are erased, forcing reprogramming.

**Reference:** Siemens S7-1200 Manual.



### 3. Palo Alto Networks PA-220 Firewall

- **Vendor:** Palo Alto Networks
- **Model:** PA-220
- **Industry:** Enterprise Networks
- **Objective:** Reset firewall and use default credentials for access.
- **Instructions:**
  1. Power cycle the firewall **5 times** (5-10 seconds between cycles).
  2. The firewall will boot into **maintenance mode**.
  3. Select **Factory Reset** from the console.
  4. Reboot with default credentials (**admin/admin**).
- **Impact:** All firewall rules and network settings are wiped out.

**Reference:** Palo Alto PA-220 Admin Guide.



## 4. Ubiquiti EdgeRouter X

- **Vendor:** Ubiquiti Networks
- **Model:** EdgeRouter X
- **Industry:** SMB and ISP Networks
- **Objective:** Reset router to factory defaults, removing all configurations.
- **Instructions:**
  1. Power cycle the router **3 times**.
  2. Press the reset button (pinhole) for **15 seconds**.
  3. The router will reset and reboot to factory defaults.
- **Impact:** Allows access via default credentials (**ubnt/ubnt**).

**Reference:** Ubiquiti EdgeRouter Manual.



## 5. Schneider Electric Modicon M221 PLC

- **Vendor:** Schneider Electric
- **Model:** Modicon M221
- **Industry:** Industrial Automation (ICS)
- **Objective:** Reset PLC managing automation systems.
- **Instructions:**
  1. Power cycle the PLC **3 times**.
  2. Hold the reset button on the module for **10 seconds**.
  3. The system will reset, erasing all user configurations.
- **Impact:** Automation processes are disrupted, forcing the user to reload settings.

**Reference:** Schneider Electric Modicon M221 [Manual](#).



## 6. Honeywell Experion PKS Controller

- **Vendor:** Honeywell
- **Model:** Experion PKS
- **Industry:** SCADA/ICS Systems
- **Objective:** Reset SCADA control system to factory defaults.
- **Instructions:**
  1. Power cycle the controller **4 times**.
  2. After the fourth cycle, hold the reset button for **30 seconds**.
  3. The system will reboot with default configurations.
- **Impact:** All SCADA configurations are removed.

**Reference:** Honeywell Experion PKS [Manual](#).



## 7. Hikvision DS-7600 NVR

- **Vendor:** Hikvision
- **Model:** DS-7600 Series
- **Industry:** Surveillance Systems
- **Objective:** Reset the NVR and gain access to default credentials.
- **Instructions:**
  1. Power cycle the NVR **3 times** (10 seconds between cycles).
  2. Press the reset button (pinhole) for **20 seconds**.
  3. The system will reboot with default settings (**admin/12345**).
- **Impact:** Complete access to the surveillance system.

**Reference:** Hikvision NVR [Quick Start Guide](#).



## 8. APC Smart-UPS SMT1500RM2U

- **Vendor:** APC by Schneider Electric
- **Model:** SMT1500RM2U
- **Industry:** Critical Power Management
- **Objective:** Reset UPS to disrupt power configurations.
- **Instructions:**
  1. Power cycle the UPS 5 times.
  2. Hold the reset button for **10 seconds** to trigger a factory reset.
  3. Reboot and reconfigure from scratch.
- **Impact:** Removes custom power settings, affecting uptime.

**Reference:** APC Smart-UPS [User Manual](#).



## 9. GE RX3i Controller

- **Vendor:** General Electric
- **Model:** RX3i PACSystems Controller
- **Industry:** ICS/SCADA Systems
- **Objective:** Disrupt industrial control and force factory reset.
- **Instructions:**
  1. Power cycle the device **3 times**.
  2. Press and hold the reset button for **15 seconds**.
  3. The system will reboot and erase all configuration.
- **Impact:** Automation control is disrupted, and the factory reset erases programs.

**Reference:** GE RX3i [Technical Documentation](#).



## 10. Cisco Catalyst 2960 Switch

- **Vendor:** Cisco
- **Model:** Catalyst 2960
- **Industry:** Enterprise Networks
- **Objective:** Reset switch configuration to default settings.
- **Instructions:**
  1. Power cycle the switch **5 times**.
  2. Hold the **mode button** for 10 seconds during the final boot.
  3. The switch will reset to factory defaults.
- **Impact:** Removes all VLAN, routing, and security configurations.

**Reference:** Cisco Catalyst 2960 [Reset Guide](#).



## 11. Rockwell Automation Allen-Bradley CompactLogix PLC

- **Vendor:** Rockwell Automation
- **Model:** CompactLogix 1769-L16ER
- **Industry:** ICS/Industrial Automation
- **Objective:** Reset PLC controlling industrial processes.
- **Instructions:**
  1. Power cycle the PLC **3 times**.
  2. Press and hold the reset button for **10 seconds**.
  3. Reboot to factory settings.
- **Impact:** All ladder logic and configurations are erased.

**Reference:** Rockwell CompactLogix [Manual](#).



## 12. Juniper EX2200 Switch

- **Vendor:** Juniper Networks
- **Model:** EX2200
- **Industry:** Enterprise Networks
- **Objective:** Reset switch to factory defaults.
- **Instructions:**
  1. Power cycle the switch **3 times**.
  2. Press the reset button for **10 seconds**.
  3. Reboot with factory defaults.
- **Impact:** Clears all VLAN, port, and security settings.

**Reference:** Juniper EX2200 [Manual](#).



## 13. Siemens SIMATIC S7-1500 PLC

- **Vendor:** Siemens
- **Model:** SIMATIC S7-1500
- **Industry:** Industrial Control Systems (ICS)
- **Objective:** Reset PLC to default configuration, disrupting industrial control systems.
- **Instructions:**
  1. Power off the device and turn it back on **4 times**.
  2. Hold the **MRES button** for **10 seconds** to trigger a factory reset.
  3. Release the button and wait for a system reboot.
- **Impact:** All configuration data and user programs are erased, forcing manual reprogramming.

**Reference:** Siemens SIMATIC S7-1500 Manual.



## 14. Dell PowerEdge R640 Server

- **Vendor:** Dell
- **Model:** PowerEdge R640
- **Industry:** Data Centers
- **Objective:** Factory reset to wipe server configuration.

- **Instructions:**

1. Power off the server, then turn it on and off **5 times**.
2. During the final boot, press the reset button for **15 seconds**.
3. The system will factory reset.

- **Impact:** Wipes all configurations and storage data.

**Reference:** Dell PowerEdge [Reset Guide](#).



## 15. Aruba Networks 2930F Switch

- **Vendor:** Aruba Networks
- **Model:** 2930F
- **Industry:** Enterprise Networks
- **Objective:** Reset switch to factory settings for default access.
- **Instructions:**
  1. Power cycle **3 times**.
  2. Hold the reset button for **20 seconds**.
  3. The switch will reset to factory defaults.
- **Impact:** Removes all network settings, enabling default access.

**Reference:** Aruba 2930F [Manual](#).



## 16. Axis M3106-LVE Network Camera

- **Vendor:** Axis Communications
- **Model:** M3106-LVE
- **Industry:** Surveillance Systems
- **Objective:** Factory reset to gain access to video streams.
- **Instructions:**
  1. Power cycle the camera **4 times**.
  2. Press and hold the reset button for **10 seconds**.
  3. The camera will reboot to factory settings ( **root/pass** ).
- **Impact:** Enables default credentials, providing control over the camera.

**Reference:** Axis M3106-LVE [User Manual](#).



## 17. Fortinet FortiGate 30E Firewall

- **Vendor:** Fortinet
- **Model:** FortiGate 30E
- **Industry:** Enterprise Networks
- **Objective:** Factory reset to disable firewall settings.
- **Instructions:**
  1. Power off and on the firewall **5 times**.
  2. Hold the reset button for **20 seconds**.
  3. The firewall will reset and reboot with default credentials.
- **Impact:** Firewall rules and configurations are wiped out.

**Reference:** [Fortinet FortiGate 30E Manual](#).



## 18. Yokogawa CENTUM VP DCS Controller

- **Vendor:** Yokogawa
- **Model:** CENTUM VP DCS
- **Industry:** Process Automation/SCADA
- **Objective:** Factory reset to disrupt process control.
- **Instructions:**
  1. Power cycle **3 times**.
  2. Hold the reset button for **15 seconds**.
  3. The controller will reset, erasing all configurations.
- **Impact:** Critical process control configurations are lost.

**Reference:** Yokogawa CENTUM VP [Technical Guide](#).



## 19. Panasonic KX-NS700 PBX

- **Vendor:** Panasonic
- **Model:** KX-NS700
- **Industry:** Telecommunications
- **Objective:** Factory reset to disrupt telecommunication operations.
- **Instructions:**
  1. Power off the PBX and cycle power **3 times**.
  2. Hold the reset button for **10 seconds** to initiate factory reset.
  3. The system will reboot and require reconfiguration.
- **Impact:** All telephony settings are erased.

**Reference:** Panasonic KX-NS700 [Manual](#).



## 20. Mitsubishi Electric MELSEC-Q Series PLC

- **Vendor:** Mitsubishi Electric
- **Model:** MELSEC-Q Series
- **Industry:** Industrial Automation
- **Objective:** Reset PLC controlling automation processes.
- **Instructions:**
  1. Power off and on the PLC **3 times**.
  2. Press the reset button for **20 seconds**.
  3. The PLC will reset to factory defaults, erasing all configurations.
- **Impact:** Automation processes are interrupted, forcing reprogramming.

**Reference:** Mitsubishi Electric MELSEC-Q Series [Manual](#).





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