+1

Hire Cybersecurity Expert

Operates as +1 to station played on and can protect any station within a single connection. Goes away upon successful attack and nullifies a single attack OR can be used to nullify a lateral movement card on any station within its sphere of influence.

+1

Old Style Forensics Capability

Operates as +1 to station. A forensics tool for old style modems bought. Issues can now be ascertained on fifteen- to twenty-five year old hardware.

+1

Train employees

Operates as +1 to station. Train employees in ICS cybersecurity. IT and Industrial Control Systems (ICS) have different security needs.

3

Power Station

2

Power Substation

2

Power Substation

2

Power Substation

1

Lesser Power Substation

Lesser Power Substation

1

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1

Lesser Power Substation

1

Vulnerable to Phishing

-1

$1

Employees opened email and either clicked a link or opened an attachment sent from an attacker.

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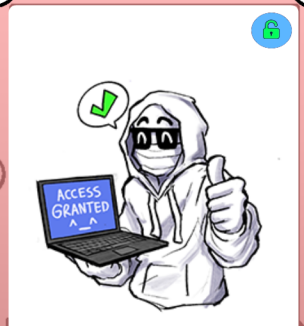
Field Devices Vulnerable

-1

$1

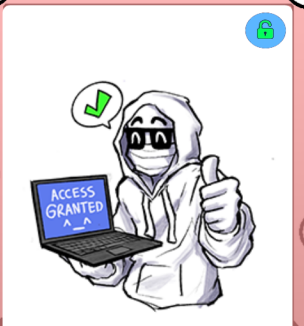


Access gained via field devices. Some of many field devices such as transformers and wind farms have a vulnerable technology like Bluetooth embedded that can't be turned off.

Field Devices Vulnerable

-1

$1



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Field Devices Vulnerable

-1 $1

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Discounted Vulnerability Cost

(Instant) Discount a regular vulnerability card that costs 3+ points to play by 2.

Virus Checking Software Installed

-1 $3

Somebody installed virus checking software that causes a denial of service attack of up to 6 minutes on the industrial control system because it interrupts real-time operations. The Denial of Service self attack was unintended.

Control and Safety Implemented Together

-1 $2

Control and safety features are implemented into the same hardware. Safety is now vulnerable.

Alarm Suppression

-1 $2

A local software misconfiguration or vulnerability is used to gain access and the alarm functionality of the system is suppressed.

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Attackers use a service modification to load malware and gain access.

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Functionality Not Separate

-1 $2

Your business and industrial control system networks aren't completely separate or your control safety systems are on the same hardware. Anything not separated can be attacked together.

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Lateral Movement

$3

Any vulnerabilities with this station move to all stations directly connected to it if the vulnerability becomes an actual attack.

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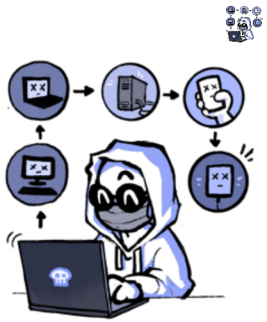

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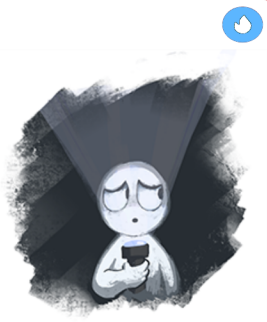
Offline

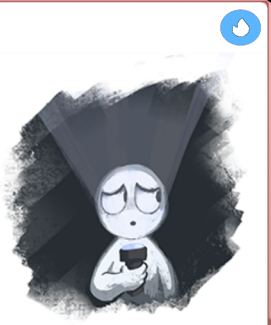
-2 $4



Station or substation offline. Something is wrong.

Offline

-2 $4



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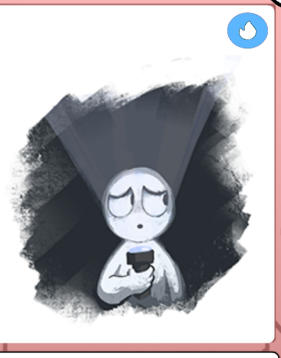

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Output Fluctuates Through Brute Force I/O

-1

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Compliance is Enough

-1

$3

Instant -1! Compliance does not equal complete security but your people believe it does. You drove a car with a valid driver's license at the proper speed limit. You still had an accident.

Authentication Provides Confidentiality

-1

$3

Instant -1! Access and privacy are two separate things. You were logged in but your data was still stolen over that unencrypted wi-fi.

Change Password

Maker users choose a new and stronger password. Counters phishing and vulnerable field device vulnerabilities.

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Firewall Log Review

Firewall logs are reviewed and lateral movement discovered. Cancels Lateral movement card.

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Run Analytics

Run analytics on user/system behavior to notice and then stop an outsider from accessing networks. Stops access from phishing and vulnerable field devices.

HALT

Cancels any instant action. Somebody was on the ball today.

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Wrong IP

(Power Only) Attacker uses the wrong IP for a relay switch open command and nothing happens. Fixes Brute Force I/O and happened during 2016 Ukraine Power Grid Attack.

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Patch Siemens Relay Exploit

+1

(Power Only) +1 to station. Patch Siemens mechanical relay exploit (stops any relay issues on that station).

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Physically Reset Devices

(Power Only) Physically reset devices in a facility. Used for Brute Force I/O and Stations that are not working. Can only be used on stations with the Siemens mechancial relay exploit patched or else station explodes and life is lost.

Sewage Dumped

-1

$3

(Water Only) Brute Force I/O attack sent false messages via radio network using a stolen machine to disable alarm reporting and corrupt a water pump system to run incorrectly. Can't be played on a staion with upgraded SCADA access authentication.

Mechanical Breakdown

-2

$4

(Water Only) Pump sewerage station stopped through mechanical error after equipment fails having been used incorrectly due to cyber attacks. Fixed through repair.

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Water Station

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Water Station

2

Water Station

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Water Station

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Lesser Water Station

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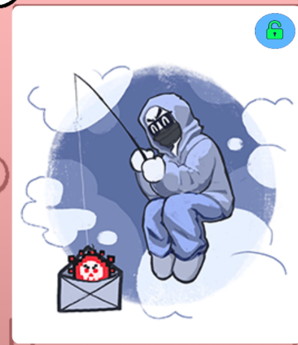
-1

$1



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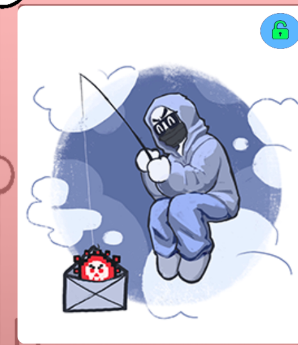

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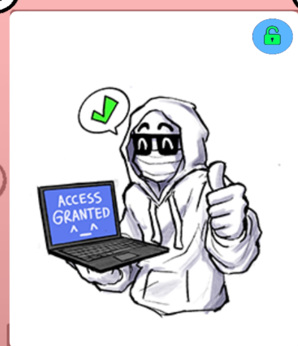

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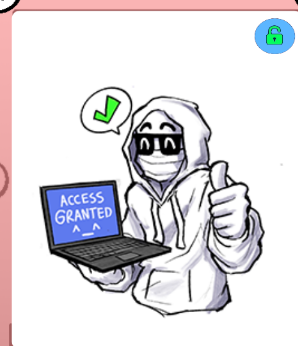

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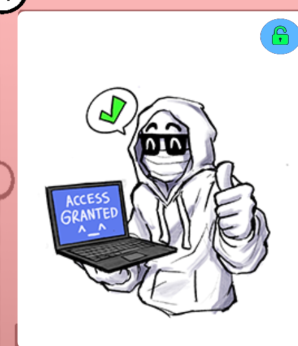

Access gained via field devices. Some of many field devices such as transformers, circuit breakers, wind farms, etc. have a vulnerable technology like Bluetooth embedded that can't be turned off.

Wild Draw

(Instant) Draw any card of your choice from the discard pile and immediately play it. For vulnerabilities you must be able to pay the points to play the card.

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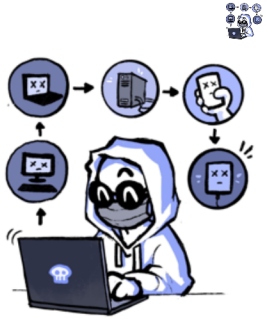

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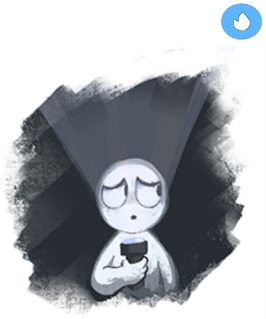
Offline

-2

$4



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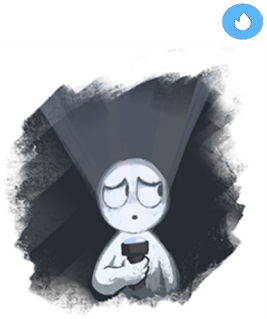
Offline

-2

$4



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-2

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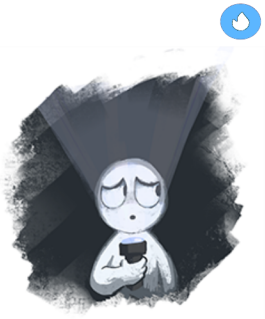

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Offline

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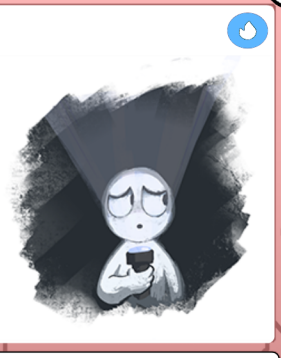

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Output Fluctuates Through Brute Force I/O

-1 | $3

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IT and ICS Security are the Same

-1 | $3

Instant -1! IT business security prioritizes confidentiality and ICS security prioritizes safety, integrity, and availability. ICS devices are also commonly real time systems that may be up to 25-years old.

Insignificant Target

-1 | $3

Instant -1! It was too insignificant to be a target and wasn't worth attacking, but attackers found it anyway.

Change Password

Maker users choose a new and stronger password. Counters phishing and vulnerable field device vulnerabilities.

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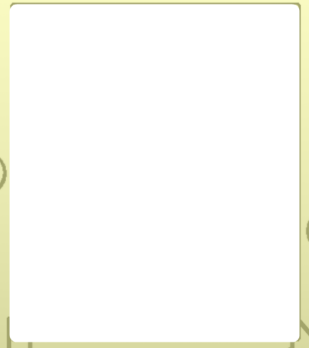
Firewall Log Review



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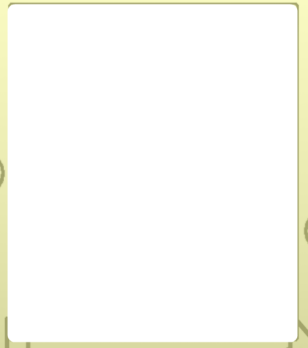

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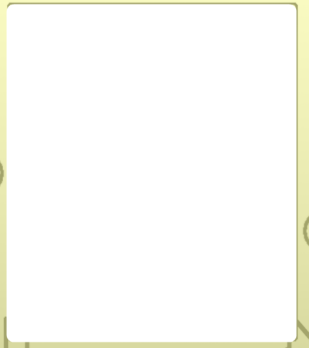

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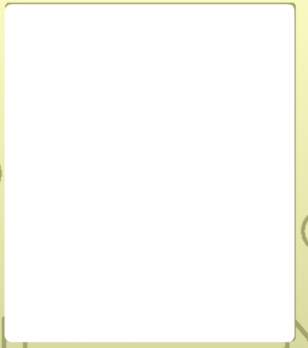

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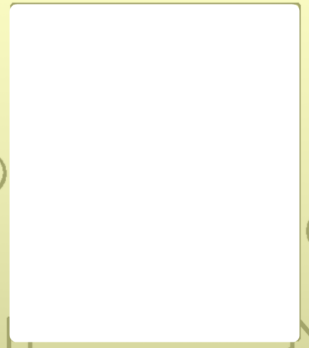

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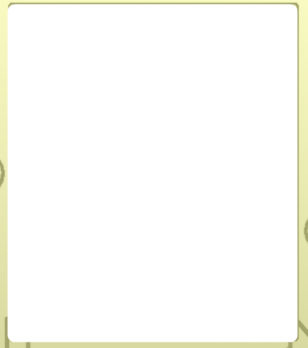

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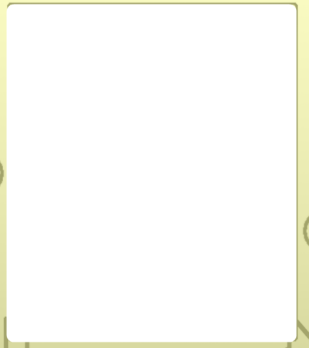

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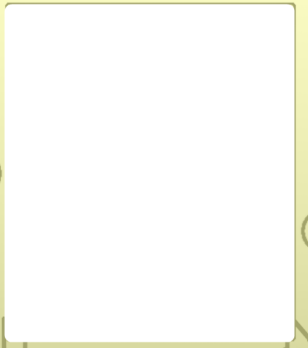

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Catch Rogue Employee

(Water Only) Catch previous employee sending false messages to radio network and causing them to dump sewage at a Hyatt Regency hotel . Fixes Brute Force I/O, sewage dump, or offline station and happened during 2000 Maroochy Water Services, Australian attack.

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Upgrade SCADA Access Authentication

+1

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Upgrade Control System

(Water Only) Upgrade control system and information integrity to not accept outside/false messages that could be sent by attackers. Stops Brute Force I/O Attacks and Alarm Suppression.

Denial of Service Exploit Shutdown

-2

$4

(Power Only) Shutdown of power relay due to denial of service exploit for Siemens device vulnerability. Causes loss of station and operator life if power turned on before fixed, so only fixable with Siemens Exploit patch or if it's the wrong IP.

Power Fluctuation

-1

$3

(Power Only) Remote commands toggle circuit breakers in a rapid open-close-open pattern causing power fluctuations in a brute force I/O attack. Happened during 2016 Ukraine Power Grid Attack.