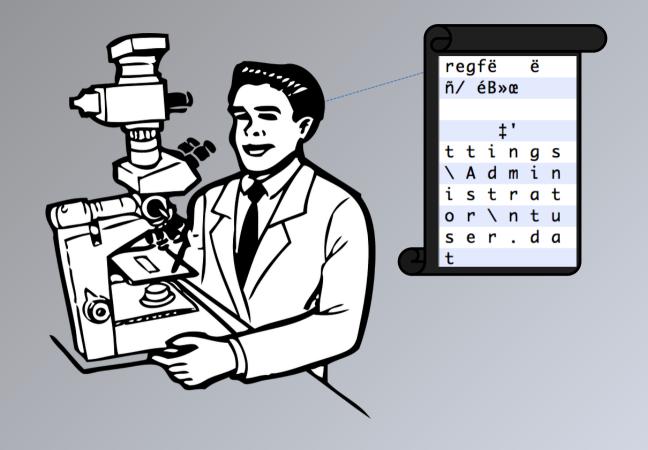


- Registry File Types
- Registry File Format
- Regmagnet plugins
- Regmagnet output
- Registry Handlers



### References

Registry File Types and Format: Maxim Suhanov @errno\_fail
 https://github.com/msuhanov/regf
 ...
 ...

# Regmagnet Plugins

Regmagnet consist of several built-in plugins briefly described below. **Note**: To get more details about plugin's purpose and capabilities, pass -h to plugin's arguments:

-p "plugin name -h'

# Default plugins:

```
parser | Allows to query registry keys and values (Wildcard / Regex / String / Binary / Owner / Security / Size / Datet-ime patterns)
search
autoruns
anomaly
macro
cit
Office
rdp
```

# Regmagnet output

Regmagnet can send the output to stdout or to a file.

The output can be represented in one of following formats:

- ☐ Comma separated: -f csv
- ☐ Tab separated: -f tab
- Windows Registry Editor: -f winreg
- ☐ SQLite: **f** sqlite

To option: -o file path sends to output to given file path

#### Few output format examples:

-s "UsrClass-admin-live.dat" -f tab -p "parser -qk JZNZSGGPHLXXRR"

```
parser HKEY_CURRENT_USER\Software\Classes 2015-10-20 04:49:51.206532 0 3 JZNZSGGPHLXXRR 0QFXA0RSMDFJC JFRWVVFESENBQ\dPQUFTQSA9ICdKWk5aUG parser HKEY_CURRENT_USER\Software\Classes 2015-10-20 04:49:51.206532 0 3 JZNZSGGPHLXXRR {C7283813-081E-448E-85CF-D6654DD8C2C2} b'\'\xf0UF\x1f,\xe4\xaeM5\xeb\xf1\'parser HKEY_CURRENT_USER\Software\Classes 2015-10-20 04:49:51.206532 0 3 JZNZSGGPHLXXRR {5C10CDFD-6C47-4483-B146-67012C633039} b'\'\xf0UF\x1f,\xe4\xaeM5\xeb\xf1\'parser -qk JZNZSGGPHLXXRR -0 JZNZSGGPHLXXRR -0 JZNZSGGPHLXXRR.reg
```

#### -3 OSICIASS-AUTIIII-IIVE.UAL -1 WITHEY -P PAISET -YR JZIVZSOOTTIEXXIII -0 JZIVZSOOTTIEXXIII.TEY

```
Windows Registry Editor Version 5.00
      ☐ [HKEY CURRENT USER\Software\Classes\JZNZSGGPHLXXRR]
        "OOFXAORSMDFJC"="JFRWVVFESENBOldPOUFTOSA9ICdKWk5aU0dHUEhMWFhSUic7IA0KJE5TVFRISk1WT0dXWkEgPSAnezVDMTBDREZ
        "{C7283813-081E-4A8E-85CF-D6654DD8C2C2}"=hex:27,f0,55,46,1f,2c,e4,ae,4d,35,eb,\
          f1,88,ac,3c,d2,42,00,7c,c4,52,f4,80,65,0e,ce,1f,ff,25,a5,c8,d1,aa,ec,fc,da,
          a6,f3,8c,0e,79,5f,f2,53,b2,38,7e,e7,52,21,f6,f4,3e,30,a3,34,71,6e,46,9f,e7,\
  8
          c3,0f,8f,5f,0c,41,e4,92,dc,a0,8e,24,05,95,f1,ed,a3,b3,84,63,2e,06,50,5b,0f,\
  9
          c7,f0,5a,18,0d,1e,c1,5f,f4,04,3a,f6,f1,27,c5,2e,5d,83,df,25,66,e9,ae,21,70,\
 10
          ed, fa, ef, f5, 63, 2a, b9, 73, bf, 06, eb, 07, 3a, 0b, fc, 0a, 2c, 42, a2, f2, ed, 98, b4, a0, 6e,
 11
          0e,a4,0b,cb,3a,6f,ba,8d,69,16,15,a2,bd,98,6f,18,2e,4f,10,ab,8e,b8,29,1a,22,\
 12
          cd, 0d, 47, d8, bf, 34, 80, 97, 60, fb, 77, 46, 90, 96, d8, 0a, 26, 68, 22, 72, c5, 0d, ff, e2, 48,
 13
          Od, fc, 5e, 20, 15, dc, 67, 3b, c5, da, de, a5, 05, 66, 59, bc, 95, 30, a3, d1, 34, 17, b8, dc, de, \
```

#### Registry Handlers

### Output fields (aka. Format Fields)

You have full control over the fields being displayed or exported. This setting can be configured trough -ff parameter or in plugin's configuration file via default\_format\_fields entry.

```
-s "UsrClass-admin-live.dat" -f csv -ff "value_path,value_type_str" -p "parser -qk

JZNZSGGPHLXXRP."

JZNZSGGPHLXXRR\0QFXA0RSMDFJC,RegSZ

JZNZSGGPHLXXRR\{C7283813-081E-4A8E-85CF-D6654DD8C2C2},RegBin

JZNZSGGPHLXXRR\{5C10CDFD-6C47-4A83-B146-67012C633039},RegBin
```

## Registry Handlers

Registry Handlers:

A registry handler is like CyberChef's recipe which interacts with the data exposed via registry fields and perform predefined encoding/decoding/converting or decrypting operations.

To display all available registry handlers, run following command: -

```
[+] dump_to_file - dump_to_file() -> Saves the input data buffer to a file specified by a parameter
[+] decompress_gzip - decompress_gzip() -> Attempts to un-gzip the input data
[+] decrypt_rc4 - decrypt_rc4(Key) -> Decrypts the input data with a string key specified
[+] sxor - sxor(Key) -> XOR the input data with a string key specified
[+] str - str() -> Converts the input data to String
[+] unescape url - unescape url -> Unescapes the input data string/url
[+] cit_dump - cit_dump() -> Dumps the unicode string and converts it to human readable format (Used for strings originating from cit plugin)
[+] utf8_dump - utf8_dump() -> Dumps the unicode string and converts it to human readable format
[+] rslice - slice(start) -> Slice the input data [Range: start:]
[+] slice - slice(0, stop) -> Slice the input data [Range: 0:stop]
[+] b64 dump - Dump and decode base64 strings from the input data
[+] b64_decode - Decode the input data as base64 string
[+] b64 encode - Encode the input data to base64 string
[+] decode_vbe - Attempts to VBE decrypt the input data
[+] nothing - Do nothing, reserved for plugin developers...(Mainly used when only custom handler is required)
[+] entropy - entropy() -> Calculates the entropy of the input data
```

## Registry Handler Format

To specify a registry handler you may use any of following commands.

- Each handler shall be comma separated (without any space)
- Multiple parameters or fields have to be semicolon separated (without any space)

```
-rh handler_name,another_or_same_handler_name
-rh handler_name<param>parameter1
-rh handler_name<param>parameter1;parameter2
-rh handler_name<field>field_name
-rh handler_name<field>field_name;field_name
-rh handler_name<field>field_name<param>parameter
-rh handler_name<field>field_namerrield>field_name
-rh handler_name<field>field_name<param>parameter
-rh handler_name<field>field_name<param>parameter
```

### Following query uses few registry handlers in the following way:

- Get the value content of HKEY\_CURRENT\_USER\Software\Classes\JZNZSGGPHLXXRR\ OQFXAORSMDFJC
- Decode the value content from base64 and store it in the value content
- Dump/Save decoded value content to a file named OQFXAORSMDFJC.ps1

parser.HKEY CURRENT USER\Software\Classes.2015-10-20 04:49:51.206532.0.3..JZNZSGGPHLXXRR.00FXAORSMDFJC.JFRWVVFESENB0ldPOUFTOSA9ICdKWk5aU0dHUEhMWF