

Telnet Console

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\scrapy-master\docs\topics\[scrapy-master] [docs] [topics] telnetconsole.rst, line 1)

Unknown directive type "currentmodule".

```
.. currentmodule:: scrapy.extensions.telnet
```

Scrapy comes with a built-in telnet console for inspecting and controlling a Scrapy running process. The telnet console is just a regular python shell running inside the Scrapy process, so you can do literally anything from it.

The telnet console is a [ref: built-in Scrapy extension <topics-extensions-ref>](#) which comes enabled by default, but you can also disable it if you want. For more information about the extension itself see [ref: topics-extensions-ref-telnetconsole](#).

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Unknown interpreted text role "ref".

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Unknown interpreted text role "ref".

Warning

It is not secure to use telnet console via public networks, as telnet doesn't provide any transport-layer security. Having username/password authentication doesn't change that.

Intended usage is connecting to a running Scrapy spider locally (spider process and telnet client are on the same machine) or over a secure connection (VPN, SSH tunnel). Please avoid using telnet console over insecure connections, or disable it completely using [setting: TELNETCONSOLE_ENABLED](#) option.

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Unknown interpreted text role "setting".

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Unknown directive type "highlight".

```
.. highlight:: none
```

How to access the telnet console

The telnet console listens in the TCP port defined in the [setting: TELNETCONSOLE_PORT](#) setting, which defaults to 6023. To access the console you need to type:

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Unknown interpreted text role "setting".

```
telnet localhost 6023
Trying localhost...
Connected to localhost.
Escape character is '^]'.
Username:
Password:
>>>
```

By default Username is `scrapy` and Password is autogenerated. The autogenerated Password can be seen on Scrapy logs like the example below:

```
2018-10-16 14:35:21 [scrapy.extensions.telnet] INFO: Telnet Password: 16f92501e8a59326
```

Default Username and Password can be overridden by the settings `:setting:'TELNETCONSOLE_USERNAME'` and `:setting:'TELNETCONSOLE_PASSWORD'`.

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Unknown interpreted text role "setting".

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Unknown interpreted text role "setting".

Warning

Username and password provide only a limited protection, as telnet is not using secure transport - by default traffic is not encrypted even if username and password are set.

You need the telnet program which comes installed by default in Windows, and most Linux distros.

Available variables in the telnet console

The telnet console is like a regular Python shell running inside the Scrapy process, so you can do anything from it including importing new modules, etc.

However, the telnet console comes with some default variables defined for convenience:

Shortcut	Description
crawler	the Scrapy Crawler (<code>:class:'scrapy.crawler.Crawler'</code> object) <div><p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\scrapy-master\docs\topics\[scrapy-master] [docs] [topics] telnetconsole.rst, line 75); backlink</p><p>Unknown interpreted text role "class".</p></div>
engine	Crawler.engine attribute
spider	the active spider
slot	the engine slot
extensions	the Extension Manager (Crawler.extensions attribute)
stats	the Stats Collector (Crawler.stats attribute)
settings	the Scrapy settings object (Crawler.settings attribute)
est	print a report of the engine status
prefs	for memory debugging (see <code>:ref:'topics-leaks'</code>) <div><p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\scrapy-master\docs\topics\[scrapy-master] [docs] [topics] telnetconsole.rst, line 91); backlink</p><p>Unknown interpreted text role "ref".</p></div>
p	a shortcut to the <code>:func:'pprint.pprint'</code> function <div><p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\scrapy-master\docs\topics\[scrapy-master] [docs] [topics] telnetconsole.rst, line 93); backlink</p><p>Unknown interpreted text role "func".</p></div>

Shortcut	Description
hpy	<p>for memory debugging (see ref:topics-leaks)</p> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\scrapy-master\docs\topics\[scrapy-master] [docs] [topics] telnetconsole.rst, line 95); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>

Telnet console usage examples

Here are some example tasks you can do with the telnet console:

View engine status

You can use the `est()` method of the Scrapy engine to quickly show its state using the telnet console:

```
telnet localhost 6023
>>> est()
Execution engine status

time()-engine.start_time           : 8.62972998619
len(engine.downloader.active)      : 16
engine.scrapers.is_idle()          : False
engine.spider.name                  : followall
engine.spider_is_idle()            : False
engine.slot.closing                 : False
len(engine.slot.inprogress)        : 16
len(engine.slot.scheduler.dqs or []) : 0
len(engine.slot.scheduler.mqs)     : 92
len(engine.scrapers.slot.queue)    : 0
len(engine.scrapers.slot.active)   : 0
engine.scrapers.slot.active_size   : 0
engine.scrapers.slot.itemproc_size : 0
engine.scrapers.slot.needs_backout() : False
```

Pause, resume and stop the Scrapy engine

To pause:

```
telnet localhost 6023
>>> engine.pause()
>>>
```

To resume:

```
telnet localhost 6023
>>> engine.unpause()
>>>
```

To stop:

```
telnet localhost 6023
>>> engine.stop()
Connection closed by foreign host.
```

Telnet Console signals

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Unknown directive type "signal".

```
.. signal:: update_telnet_vars
```

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Unknown directive type "function".

```
.. function:: update_telnet_vars(telnet_vars)
```

Sent just before the telnet console is opened. You can hook up to this

```
signal to add, remove or update the variables that will be available in the
telnet local namespace. In order to do that, you need to update the
``telnet_vars`` dict in your handler.
```

```
:param telnet_vars: the dict of telnet variables
:type telnet_vars: dict
```

Telnet settings

These are the settings that control the telnet console's behaviour:

```
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master\docs\topics\[scrapy-master] [docs] [topics] telnetconsole.rst, line 168)
```

```
Unknown directive type "setting".
```

```
.. setting:: TELNETCONSOLE_PORT
```

TELNETCONSOLE_PORT

Default: [6023, 6073]

The port range to use for the telnet console. If set to None or 0, a dynamically assigned port is used.

```
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master\docs\topics\[scrapy-master] [docs] [topics] telnetconsole.rst, line 179)
```

```
Unknown directive type "setting".
```

```
.. setting:: TELNETCONSOLE_HOST
```

TELNETCONSOLE_HOST

Default: '127.0.0.1'

The interface the telnet console should listen on

```
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master\docs\topics\[scrapy-master] [docs] [topics] telnetconsole.rst, line 189)
```

```
Unknown directive type "setting".
```

```
.. setting:: TELNETCONSOLE_USERNAME
```

TELNETCONSOLE_USERNAME

Default: 'scrapy'

The username used for the telnet console

```
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master\docs\topics\[scrapy-master] [docs] [topics] telnetconsole.rst, line 199)
```

```
Unknown directive type "setting".
```

```
.. setting:: TELNETCONSOLE_PASSWORD
```

TELNETCONSOLE_PASSWORD

Default: None

The password used for the telnet console, default behaviour is to have it autogenerated