Plugin development is really simple.

All the plugins are in:

```
$ faraday/plugins/repo/[pluginname]
```

In the following example you can see plugin of command ping:

```
from plugins import core
   from model import api
   import re
   class CmdPingPlugin(core.PluginBase):
       This plugin handles ping command.
       Basically detects if user was able to connect to a device
           core.PluginBase.__init__(self)
           self.id
                               = "ping"
           self.name
                                = "Ping"
           self.plugin version
                                       = "0.0.1"
           self.version = "1.0.0"
           self. command regex = re.compile(r'^(sudo ping|ping|sudo
ping6|ping6).*?')
           self. completition = {
                                "":"[-LRUbdfnqrvVaAB] [-c count] [-m mark] [-i
interval] ...",
                                    "-a": "Audible ping.",
       def parseOutputString(self, output, debug = False):
           This method will be called when the command finished executing and
            the complete output will be received to work with it
           Using the output the plugin can create and add hosts, interfaces,
            reg=re.search(r"PING ([\w\.-:]+)(|)\(([\w\.:]+)\)", output)
           if re.search("O received|unknown host",output) is None and reg is not
               ip address = reg.group(3)
               hostname=reg.group(1)
               h id = self.createAndAddHost(ip address)
               i id = self.createAndAddInterface(h id, ip address,
ipv4 address=ip address, hostname resolution=[hostname])
           return True
       def processCommandString(self, username, current path, command string):
           With this method a plugin can add aditional arguments to the command
that
```

```
it's going to be executed.
"""

return None

def createPlugin():
 return CmdPingPlugin()
```

In this plugin if the host is active we add it to the database

Key information:

```
self._command_regex
```

This is a regex used to match the command string and determine if the plugin is suitable to handle it.

```
self._completition
```

This have the dict used for intellisense.

```
def parseOutputString(self, output, debug = False):
```

This method will be called when the command finished executing and the complete output will be received to work with it. Using the output, the plugin can create and add hosts, interfaces, services, vuln, webvuln, credentials, notes.

```
def processCommandString(self, username, current_path, command_string):
```

With this method a plugin can add additional arguments to the command that it's going to be executed.

```
createAndAddHost(self, name, os = "unknown", category = None, update = False,
old_hostname = None)
```

With this method we can create and add a host to the database.

With this method we can create and add a interface to a host.

core.PluginBase

Besides the two methods above, this is the complete list of methods in the PluginBase:

```
def createAndAddServiceToInterface(self, host id, interface id, name, protocol
= "tcp?",
               ports = [], status = "running", version = "unknown", description =
""):
    def createAndAddServiceToHost(self, host id, protocol="tcp?", status="open",
               version="unknown", description=""):
   def createAndAddVulnToHost(self, host id, name, desc="", ref=[], severity=""):
   def createAndAddVulnToInterface(self, host id, interface id, name, desc="",
ref=[], severity=""):
    def createAndAddVulnToService(self, host id, service id, name, desc="", ref=[],
severity=""):
    def createAndAddVulnWebToService(self, host id, service id, name, desc="",
ref=[], severity="",
                website="", path="", request="", response="", method="", pname="",
               params="", query="", category=""):
    def createAndAddNoteToHost(self, host id, name, text):
    def createAndAddNoteToInterface(self, host id, interface id, name, text):
   def createAndAddNoteToService(self, host id, service id, name, text):
   def createAndAddNoteToNote(self, host id, service id, note id, name, text):
   def createAndAddCredToService(self, host id, service id, username, password):
    def log(self, msg, level='INFO'):
   def devlog(self, msg):
```