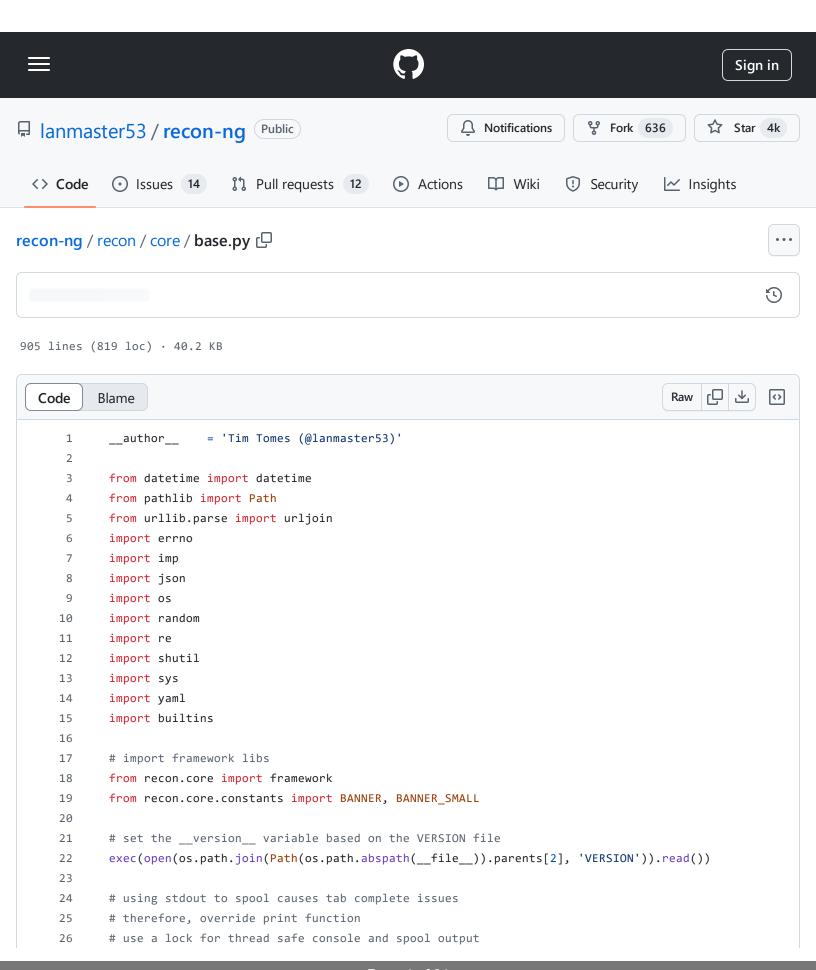
recon-ng/recon/core/base.py at 9e907dfe09fce2997f0301d746796408e01a60b7 · lanmaster53/recon-ng · GitHub - 31/10/2024 15:32 https://github.com/lanmaster53/recon-ng/blob/9e907dfe09fce2997f0301d746796408e01a60b7/recon/core/base.py#L92



```
27
      from threading import Lock
28
       _print_lock = Lock()
29
       # spooling system
      def spool_print(*args, **kwargs):
30
          with _print_lock:
31
32
              if framework.Framework. spool:
                  framework.Framework._spool.write(f"{args[0]}{os.linesep}")
33
                  framework._spool.flush()
34
              # disable terminal output for server jobs
35
              if framework._mode == Mode.JOB:
36
37
                  return
38
              # new print function must still use the old print function via the backup
39
              builtins._print(*args, **kwargs)
       # make a builtin backup of the original print function
40
41
       builtins._print = print
      # override the builtin print function with the new print function
42
43
       builtins.print = spool print
44
45
      46
      # BASE CLASS
47
       48
      class Recon(framework.Framework):
49
50
          repo_url = 'https://raw.githubusercontent.com/lanmaster53/recon-ng-modules/master/'
51
52
          def __init__(self, check=True, analytics=True, marketplace=True, accessible=False):
53
54
              framework.Framework.__init__(self, 'base')
              self._name = 'recon-ng'
55
              self._prompt_template = '{}[{}] > '
56
              self._base_prompt = self._prompt_template.format('', self._name)
57
              # set toggle flags
58
              self. check = check
59
60
              self._analytics = analytics
              self._marketplace = marketplace
61
              self. accessible = accessible
62
63
              # set path variables
              self.app_path = framework.Framework.app_path = sys.path[0]
64
65
              self.core_path = framework.Framework.core_path = os.path.join(self.app_path, 'core')
              self.home path = framework.Framework.home path = os.path.join(os.path.expanduser('~'), '.re
66
              self.mod_path = framework.Framework.mod_path = os.path.join(self.home_path, 'modules')
67
              self.data_path = framework.Framework.data_path = os.path.join(self.home_path, 'data')
68
69
              self.spaces path = framework.Framework.spaces path = os.path.join(self.home path, 'workspace')
70
71
          def start(self, mode, workspace='default'):
72
              # initialize framework components
```

```
73
               self. mode = framework.Framework. mode = mode
74
               self. init global options()
75
               self._init_home()
76
               self._init_workspace(workspace)
77
               self. check version()
78
               if self._mode == Mode.CONSOLE:
79
                   self._print_banner()
80
                   self.cmdloop()
81
82
           #-----
83
           # SUPPORT METHODS
84
           85
86
           def _init_global_options(self):
87
                self.options = self. global options
               self.register option('nameserver', '8.8.8.8', True, 'default nameserver for the resolver mi
88
89
               self.register_option('proxy', None, False, 'proxy server (address:port)')
90
               self.register_option('threads', 10, True, 'number of threads (where applicable)')
91
               self.register_option('timeout', 10, True, 'socket timeout (seconds)')
92
               self.register_option('user-agent', f"Recon-ng/v{__version__.split('.')[0]}", True, 'user-ag
93
               self.register_option('verbosity', 1, True, 'verbosity level (0 = minimal, 1 = verbose, 2 =
94
95
           def _init_home(self):
96
               # initialize home folder
97
               if not os.path.exists(self.home_path):
98
                   os.makedirs(self.home path)
99
               # initialize kevs database
100
               self._query_keys('CREATE TABLE IF NOT EXISTS keys (name TEXT PRIMARY KEY, value TEXT)')
               # initialize module index
101
102
               self. fetch module index()
103
104 🗸
           def _check_version(self):
105
               if self. check:
                   pattern = r''(\d+\.\d+\.\d+\.\d+\.\')''
106
107
                   remote = 0
108
                   local = 0
109
                   try:
                       remote = re.search(pattern, self.request('GET', 'https://raw.githubusercontent.com/
110
                       local = re.search(pattern, open('VERSION').read()).group(1)
111
112
                   except Exception as e:
113
                       self.error(f"Version check failed ({type(e).__name__}).")
                       #self.print exception()
114
115
                   if remote != local:
116
                       self.alert('Your version of Recon-ng does not match the latest release.')
                       self.alert('Please consider updating before further use.')
117
                       self outnut(f"Remote version: {remote}")
118
```

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```
832
833
          # COMPLETE METHODS
834
835
          836
          def complete_index(self, text, line, *ignored):
837
              if len(line.split(' ')) == 2:
838
839
                 return [x for x in self._loaded_modules if x.startswith(text)]
              return []
840
841
842 🗸
          def complete_marketplace(self, text, line, *ignored):
              arg, params = self._parse_params(line.split(' ', 1)[1])
843
              subs = self._parse_subcommands('marketplace')
844
              if arg in subs:
845
                 return getattr(self, '_complete_marketplace_'+arg)(text, params)
846
              return [sub for sub in subs if sub.startswith(text)]
847
848
          def _complete_marketplace_refresh(self, text, *ignored):
849
850
              return []
0 - 4
```

```
851
           _complete_marketplace_searcn = _complete_marketplace_retresn
852
           def complete marketplace info(self, text, *ignored):
853
               return [x['path'] for x in self._module_index if x['path'].startswith(text)]
854
           _complete_marketplace_install = _complete_marketplace_info
855
856
           def complete marketplace remove(self, text, *ignored):
857
               return [x['path'] for x in self._module_index if x['status'] == 'installed' and x['path'].s
858
859
           def complete workspaces(self, text, line, *ignored):
860
               arg, params = self._parse_params(line.split(' ', 1)[1])
861
               subs = self._parse_subcommands('workspaces')
862
863
               if arg in subs:
864
                   return getattr(self, ' complete workspaces '+arg)(text, params)
               return [sub for sub in subs if sub.startswith(text)]
865
866
           def complete workspaces list(self, text, *ignored):
867
               return []
868
           _complete_workspaces_create = _complete_workspaces_list
869
870
           def complete workspaces load(self, text, *ignored):
871
               return [x for x in self._get_workspaces() if x.startswith(text)]
872
           _complete_workspaces_remove = _complete_workspaces_load
873
874
875 🗸
           def complete snapshots(self, text, line, *ignored):
               arg, params = self._parse_params(line.split(' ', 1)[1])
876
               subs = self._parse_subcommands('snapshots')
877
               if arg in subs:
878
879
                   return getattr(self, '_complete_snapshots_'+arg)(text, params)
               return [sub for sub in subs if sub.startswith(text)]
880
881
           def complete snapshots list(self, text, *ignored):
882
883
               return []
           _complete_snapshots_take = _complete_snapshots_list
884
885
886
           def complete snapshots load(self, text, *ignored):
               return [x for x in self._get_snapshots() if x.startswith(text)]
887
           _complete_snapshots_remove = _complete_snapshots_load
888
889
           def complete modules reload(self, text, *ignored):
890
891
               return []
892
893
       894
       # SUPPORT CLASSES
895
       896
```

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```
897 	✓ class Mode(object):
           '''Contains constants that represent the state of the interpreter.'''
898
           CONSOLE = ∅
899
900
          CLI
                 = 1
           WEB
                  = 2
901
           JOB
                 = 3
902
903
           def __init__(self):
904
               raise NotImplementedError('This class should never be instantiated.')
905
```