Royal_APT



github.com/nccgroup/Royal_APT

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Royal APT - APT15 - Related Information from NCC Group Cyber Defense Operations Research





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Sharepoint tool

Among the tools developed by the group for the victim, APT15 created a .net tool to enumerate the victim's sharepoint database. Below is an screen-shot from the decompiled binary.

```
string connectstring = "provider=SQLOLEDB;driver=SQL Server;Data Source=127.0.0.1;initial catalog=
                                                                                                                                                                                                             + i + "; Integrated Security=SSPI";
                  for (int j = 0; j < array.Length; j++)</pre>
                       Console.WriteLine("job" + i);
Program.export_database(connectstring, string.Concat(new object[])
                             "spdata_",
                            i,
"_",
j,
".tmp"
                      }), array[j]);
           }
      catch (Exception ex)
           Console.WriteLine(ex.Message);
private static void export_database(string connectstring, string fn, string key_word)
{
           OleDbConnection oleDbConnection = new OleDbConnection(connectstring):
           olebbConnection.Open();
OlebbCommand olebbCommand = new OlebbCommand("Select Id,FullUrl,Title,TimeCreated,LastMetadataChange from AllWebs where Title LIKE '" + key_word + "%'", olebbConnection);
OlebbDataReader olebbDataReader = olebbCommand.ExecuteReader();
            if (!oleDbDataReader.HasRows)
                 Console.WriteLine("\t" + key_word + " 0 rows");
                  while (oleDbDataReader.Read())
                       string str = oleDbDataReader.GetGuid(0).ToString();
                      String Str = Glebboateneauer.GetGain(g).ToString());
Console.Write("\t" + olebboateNeader.GetString(2));
Console.Write(" (" + str);
Console.Write(", " + olebboateNeader.GetString(1));
Console.Write(", Create:" + olebboateNeader.GetDateTime(3).ToString());
Console.Write(", LastAccess:" + olebboateNeader.GetDateTime(4).ToString() + ")");
Console.Write("\r");
                 Console.WriteLine("\t----");
oleDbDataReader.Close();
oleDbConnection.Close();
      catch (Exception ex)
           Console.WriteLine(ex.Message);
```

Decoding scripts

Decoder scripts for BS2005 and RoyalCLI samples found by NCC Group can be found in the scripts directory.

BS2005

bs_decoder.py will extract and decrypt commands included in html files sent to the sample 6ea9cc475d41ca07fa206eb84b10cf2bbd2392366890de5ae67241afa2f4269f; namely Alive.htm and Contents.htm. It will also decode beacons sent to the C2.

Usage:

```
bs2005_decoder.py html <htmlPath>/<htmlsDir>
bs2005_decoder.py beacon <beaconString>
```

RoyalCLI

rcli_decoder.py will decode RoyalCli config, RoyalCli html commands and the uris.

Usage:

```
royalcli_decoder.py html <htmlPath>/<htmlsDir>
```

```
royalcli_decoder.py cfg <configPath>
royalcli_decoder.py uri <beaconString> `
```

Yara signatures

Yara signatures for the RoyalCLI, RoyalDNS and BS2005 samples found by NCC Group can be found in apt15.yara in the signatures folder.

Suricata Signatures

Suricata signatures for RoyalCLI, RoyalDNS and BS2005 samples found by NCC Group can be found in ids_signatures_apt15_royal.txt in the signatures folder.