

GitHub - nccgroup/Royal_APT: Royal APT - APT15 - Related Information from NCC Group Cyber Defense Operations Research

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

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.

```
for (int i = 1; i < 10; i++)
{
    string connectstring = "provider=SQLOLEDB;driver=SQL Server;Data Source=127.0.0.1;initial catalog=[REDACTED] + i + ";Integrated Security=SSPI";
    for (int j = 0; j < array.Length; j++)
    {
        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)
{
    try
    {
        OleDbConnection oleDbConnection = new OleDbConnection(connectstring);
        oleDbConnection.Open();
        OleDbCommand oleDbCommand = new OleDbCommand("Select Id,FullUrl,Title,TimeCreated,LastMetadataChange from AllWebs where Title LIKE '" + key_word + "%'", oleDbConnection);
        OleDbDataReader oleDbDataReader = oleDbCommand.ExecuteReader();
        if (!oleDbDataReader.HasRows)
        {
            Console.WriteLine("\t" + key_word + " 0 rows");
            oleDbDataReader.Close();
        }
        else
        {
            while (oleDbDataReader.Read())
            {
                string str = oleDbDataReader.GetGuid(0).ToString();
                Console.WriteLine("\t" + oleDbDataReader.GetString(2));
                Console.WriteLine(" " + str);
                Console.WriteLine(" " + oleDbDataReader.GetString(1));
                Console.WriteLine(" Create:" + oleDbDataReader.GetDateTime(3).ToString());
                Console.WriteLine(" LastAccess:" + oleDbDataReader.GetDateTime(4).ToString() + " ");
                Console.WriteLine("\r\n");
            }
            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.

Source: https://github.com/nccgroup/Royal_APT