

DBatLoader

 malpedia.caad.fkie.fraunhofer.de/details/win.dbatloader

This Delphi loader misuses Cloud storage services, such as Google Drive to download the Delphi stager component. The Delphi stager has the actual payload embedded as a resource and starts it.

[TLP:WHITE] win_dbatloader_auto (20201014 | autogenerated rule brought to you by yara-signator)

```

rule win_dbatloader_auto {

meta:
    author = "Felix Bilstein - yara-signator at cocacoding dot com"
    date = "2020-10-14"
    version = "1"
    description = "autogenerated rule brought to you by yara-signator"
    tool = "yara-signator v0.5.0"
    signator_config = "callsandjumps;datarefs;binvalue"
    malpedia_reference =
"https://malpedia.caad.fraunhofer.de/details/win.dbatloader"
    malpedia_rule_date = "20201014"
    malpedia_hash = "a7e3bd57eaf12bf3ea29a863c041091ba3af9ac9"
    malpedia_version = "20201014"
    malpedia_license = "CC BY-SA 4.0"
    malpedia_sharing = "TLP:WHITE"

/* DISCLAIMER
 * The strings used in this rule have been automatically selected from the
 * disassembly of memory dumps and unpacked files, using YARA-Signator.
 * The code and documentation is published here:
 * https://github.com/fxb-cocacoding/yara-signator
 * As Malpedia is used as data source, please note that for a given
 * number of families, only single samples are documented.
 * This likely impacts the degree of generalization these rules will offer.
 * Take the described generation method also into consideration when you
 * apply the rules in your use cases and assign them confidence levels.
*/

```

strings:

\$sequence_0 = { 8b4504 03c5 8be8 8bc5 2b442414 }		
// n = 5, score = 600		
// 8b4504	mov	eax, dword ptr [ebp +
4]		
// 03c5	add	eax, ebp
// 8be8	mov	ebp, eax
// 8bc5	mov	eax, ebp
// 2b442414	sub	eax, dword ptr [esp +
0x14]		

\$sequence_1 = { 6681e1ff0f 0fb7c9 03c1 0110 }		
// n = 4, score = 600		
// 6681e1ff0f	and	cx, 0xffff
// 0fb7c9	movzx	ecx, cx
// 03c1	add	eax, ecx
// 0110	add	dword ptr [eax], edx

\$sequence_2 = { 8b542404 8b5228 8bc6 03d0 8915?????? 6a00 6a01 }		
// n = 7, score = 600		
// 8b542404	mov	edx, dword ptr [esp +
4]		
// 8b5228	mov	edx, dword ptr [edx +
0x28]		
// 8bc6	mov	eax, esi
// 03d0	add	edx, eax
// 8915??????		
// 6a00	push	0
// 6a01	push	1

\$sequence_3 = { e8?????? 89442418 8bdd 83c308 8b7c2418 4f }		
// n = 6, score = 600		

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        //    e8????????? |      mov          dword ptr [esp +
0x18], eax
        //    89442418   |      mov          ebx, ebp
        //    8bdd       |      add          ebx, 8
        //    83c308     |      mov          edi, dword ptr [esp +
0x18]
        //    8b7c2418   |      dec          edi
        //    4f          |      dec          edi

$sequence_4 = { e8????????? 50 8b4308 50 8b430c 03c6 50 }
        // n = 7, score = 600
        // e8????????? |      push         eax
        // 50          |      mov          eax, dword ptr [ebx +
8]
        // 8b4308     |      push         eax
        // 50          |      mov          eax, dword ptr [ebx +
0xc]
        // 8b430c     |      push         eax
        // 03c6        |      add          eax, esi
        // 50          |      push         eax

$sequence_5 = { 89442420 df6c241c d835????????? e8????????? 89442418 }
        // n = 5, score = 600
        // 89442420   |      mov          dword ptr [esp +
0x20], eax
        // df6c241c   |      fld           qword ptr [esp +
0x1c]
        // d835????????? |      mov          dword ptr [esp +
        // e8?????????
        // 89442418   |      mov          dword ptr [esp +
0x18], eax

$sequence_6 = { 8b4500 03c6 0fb70b 6681e1ff0f 0fb7c9 }
        // n = 5, score = 600
        // 8b4500     |      mov          eax, dword ptr [ebp]
        // 03c6        |      add          eax, esi
        // 0fb70b     |      movzx        ecx, word ptr [ebx]
        // 6681e1ff0f |      and          cx, 0xffff
        // 0fb7c9     |      movzx        ecx, cx

$sequence_7 = { 8b5c2404 81c3f8000000 8b442404 0fb77806 }
        // n = 4, score = 600
        // 8b5c2404   |      mov          ebx, dword ptr [esp +
4]
        // 81c3f8000000 |      add          ebx, 0xf8
        // 8b442404   |      mov          eax, dword ptr [esp +
4]
        // 0fb77806   |      movzx        edi, word ptr [eax +
6]

$sequence_8 = { 8944240c 8b44240c 894834 8b44240c 05f8000000 }
        // n = 5, score = 200
        // 8944240c   |      mov          dword ptr [esp +
0xc], eax
        // 8b44240c   |      mov          eax, dword ptr [esp +
0xc]
        // 894834     |      mov          dword ptr [eax +
0x34], ecx
        // 8b44240c   |      mov          eax, dword ptr [esp +
0xc]
        // 05f8000000 |      add          eax, 0xf8

```

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$sequence_9 = { 50 8b442410 8b4034 50 e8????????? }

// n = 5, score = 200
// 50 | push eax
// 8b442410 | mov eax, dword ptr [esp +
0x10]
// 8b4034 | mov eax, dword ptr [eax +
0x34]
// 50 | push eax
// e8????????? |

$sequence_10 = { e9????????? 90 90 90 90 90 90 }

// n = 7, score = 200
// e9????????? |
// 90 | nop

$sequence_11 = { 90 90 81ca80000000 eb52 90 }

// n = 5, score = 200
// 90 | nop
// 90 | nop
// 81ca80000000 | or edx, 0x80
// eb52 | jmp 0x54
// 90 | nop

$sequence_12 = { 90 90 90 83ca10 8bc2 c3 }

// n = 6, score = 200
// 90 | nop
// 90 | nop
// 90 | nop
// 83ca10 | or edx, 0x10
// 8bc2 | mov eax, edx
// c3 | ret

$sequence_13 = { 33c0 89442440 df6c243c d835????????? e8????????? }

// n = 5, score = 200
// 33c0 | xor eax, eax
// 89442440 | mov dword ptr [esp +
0x40], eax
// df6c243c | fld qword ptr [esp +
0x3c]
// d835????????? |
// e8????????? |

$sequence_14 = { 8b44241c 8b4024 e8????????? 50 8b442420 8b4008 50 }

// n = 7, score = 200
// 8b44241c | mov eax, dword ptr [esp +
0x1c]
// 8b4024 | mov eax, dword ptr [eax +
0x24]
// e8????????? |
// 50 | push eax
// 8b442420 | mov eax, dword ptr [esp +
0x20]
// 8b4008 | mov eax, dword ptr [eax +
8]
// 50 | push eax

$sequence_15 = { 83c4c0 8bf0 8d3c24 b910000000 }

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// n = 4, score = 200
// 83c4c0 | add esp, -0x40
// 8bf0 | mov esi, eax
// 8d3c24 | lea edi, [esp]
// b910000000 | mov ecx, 0x10

$sequence_16 = { 52 50 8b442410 8b403c 99 }
// n = 5, score = 200
// 52 | push edx
// 50 | push eax
// 8b442410 | mov eax, dword ptr [esp + 0x10]

$sequence_17 = { 8bea 8bd8 90 90 }
// n = 4, score = 200
// 8bea | mov ebp, edx
// 8bd8 | mov ebx, eax
// 90 | nop
// 90 | nop

$sequence_18 = { 022e 310500000000 0c00 0000 94 }
// n = 5, score = 200
// 022e | add ch, byte ptr [esi]
// 310500000000 | xor dword ptr [0], eax
// 0c00 | or al, 0
// 0000 | add byte ptr [eax], al
// 94 | xchg eax, esp

$sequence_19 = { 6800200000 8b44240c 8b4050 50 }
// n = 4, score = 200
// 6800200000 | push 0x2000
// 8b44240c | mov eax, dword ptr [esp + 0xc]

$sequence_20 = { 8bd8 33c0 55 68?????? 64ff30 648920 90 }
// n = 7, score = 200
// 8bd8 | mov ebx, eax
// 33c0 | xor eax, eax
// 55 | push ebp
// 68?????? |
// 64ff30 | push dword ptr fs:[eax]
// 648920 | mov dword ptr fs:[eax], esp
// 90 | nop

$sequence_21 = { 51 b910000000 f3a5 59 }
// n = 4, score = 200
// 51 | push ecx
// b910000000 | mov ecx, 0x10
// f3a5 | rep movsd dword ptr es:[edi], dword ptr [esi]
// 59 | pop ecx

$sequence_22 = { 8b442418 8b403c 99 030424 13542404 }
// n = 5, score = 200
// 8b442418 | mov eax, dword ptr [esp + 0x3c]

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0x18]          // 8b403c      | mov           eax, dword ptr [eax +
0x3c]          // 99          | cdq           eax, dword ptr [esp]
               // 030424      | add           edx, dword ptr [esp +
               // 13542404    | adc           edx, dword ptr [esp +
4]                                     }

$sequence_23 = { 8d3c24 b910000000 f3a5 90 90 90 }
               // n = 6, score = 200
               // 8d3c24      | lea           edi, [esp]
               // b910000000    | mov           ecx, 0x10
               // f3a5        | rep movsd     dword ptr es:[edi],
dword ptr [esi]
               // 90          | nop           edi, [esp]
               // 90          | nop           ecx, 0x10
               // 90          | nop           edx, dword ptr [esp + 4]

condition:
  7 of them and filesize < 54214656
}

```

[TLP:WHITE] win_dbatloader_w0 (20211012 | Detects cryptographic routine)

```

rule win_dbatloader_w0 {

meta:
  author = "Daniel Plohmann <daniel.plohmann<at>fkie.fraunhofer.de>"
  date = "2021-10-12"
  version = "1"
  description = "Detects cryptographic routine"
  malpedia_reference =
"https://malpedia.caad.fkie.fraunhofer.de/details/win.dbatloader"
  malpedia_rule_date = "20211012"
  malpedia_hash = ""
  malpedia_version = "20211012"
  malpedia_license = "CC BY-SA 4.0"
  malpedia_sharing = "TLP:WHITE"

strings:
/*
loc_413930:
 8D 45 E4      lea    eax, [ebp+var_1C]
 8B 55 F8      mov    edx, [ebp+var_8]
 8A 54 1A FF    mov    dl, [edx+ebx-1]
 0F B7 CF      movzx  ecx, di
 C1 E9 08      shr    ecx, 8
 32 D1          xor    dl, cl
*/
$xor_decrypt = { 8D 45 E4  8B 55 F8  8A 54 1A FF  0F B7 CF  C1 E9 08  32
D1 }

condition:
  all of them
}

```