# ON-LINE GAME HACKING

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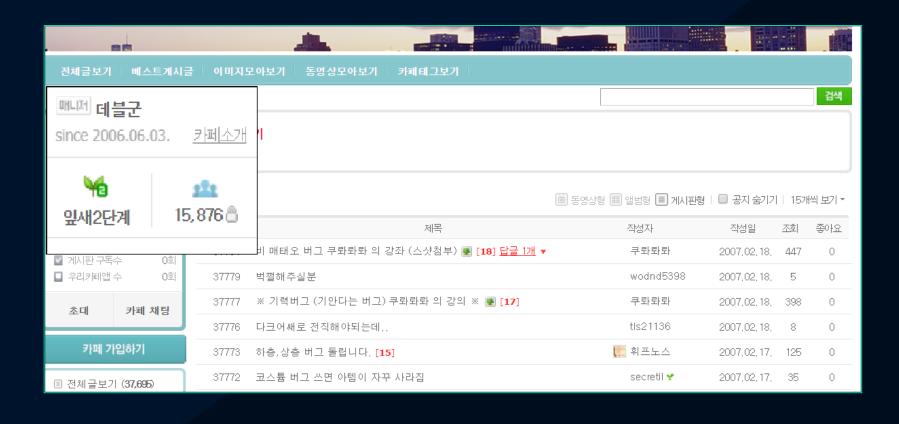
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# **GAME HACK**



## **CULTURE**



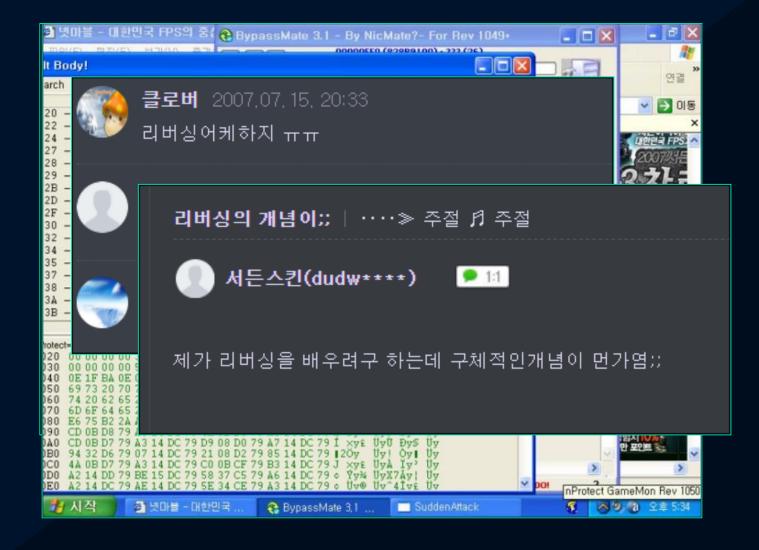
# **CHEAT ENGINE**

🛱 Cheat	Engine 6.6	6						×
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5416	1							
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5416	1		Value Type	4 Bytes				
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5416	1				Align	ment		
5416	1		✓ Fa	st Scan	4 Last [	Digits		
5416	1	$\checkmark$						
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Active Desc	cription		Addre					
🔀 Nodi	escription		54160	3924(4 B	ytes 1			^

## CHEAT ENGINE

```
DWORD dw01d;
VirtualProtect((void*)0x08048fb7, 1, PAGE EXECUTE | PAGE GUARD, &dw0ld); // This sets the protection for
AddVectoredExceptionHandler(true, (PVECTORED_EXCEPTION_HANDLER)UnhandledExceptionFilter); // Registers ou
unsigned long UnhandledExceptionFilter(EXCEPTION_POINTERS *pExceptionInfo)
    if (pExceptionInfo->ExceptionRecord->ExceptionCode == STATUS GUARD PAGE VIOLATION) // This is going
        if (pExceptionInfo->ContextRecord->Eip == 0x08048fb7) // Here we check to see if the instruction
            dwJmpBack = (DWORD*)(pExceptionInfo->ContextRecord->Esp + 0); // Find the return address for
            dwJmpBack = (DWORD)pExceptionInfo->ContextRecord->Eip + 5; // or just skip X number of bytes
            pExceptionInfo->ContextRecord->Eip = (DWORD)hkFunction; // Point EIP to hook handle.
        pExceptionInfo->ContextRecord->EFlags |= 0x100; //Set single step flag, causing only one line of
        return EXCEPTION CONTINUE EXECUTION; // When we return to the page, it will no longer be PAGE GUA
```

#### REVERSING = HACK



# = CRC

<b>₽</b> M	lemor	y Vi	iewe	er														_			;	×
File	Searc	ch	Vie	w	Deb	oug	To	ools	K	erne	l to	ols										
SuddenAttack,exe+1516																						
Addres	_					Byte:	S				Оро	ode						Comm	ent			^
Sudder	nAttac	k,e	xe+1	1516	: 3	33 C	0				xor		ea	х, еа	×							
Sudder	hAttac	k,e:	xe+1	1518	: 6	36 39	9 05	A05	600	01	cmp	•	[S	udde	enAtt	tack	,exe	+ [00000	0002	2]		
Sudder	hAttac	k,e	xe+1	151F	(	)F94	CO				sete	•	al									
Sudder	n Attac	k,e:	xe+1	1522	: 5	50					pus	h	ea	×								
Sudder						88 09	9020	0000			pus		00	0002	209			521				
Sudder						E8 9					call		Sυ	iddei	n Atta	ack, e	exe+	-3				
Sudder	n Attac	k.e:	xe+1	152D	) 3	33 C	0				xor		ea	x.ea	×							
Sudder						66 83		A05	5600	)	cmp	,	Wo	ord p	tr [S	udd	enAt	ta[00000	0002	21		
Sudder						)F94					sete		al									
Sudder						50					pus		ea	×								
Sudder						88 OA	4020	0000	ı		pus			0002	AOS			522				
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Sudder						6 83	_	ΔΩF	5600					ord p			= 1 &	[00000		21		<b>.</b>
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								C	omp.	are	tw	0 0]	per	and	s							
Prote	ct:R	lead	l On	ıly	Ba	ase=	004	1040	000	si	ze=(	<b>10</b> 0	00									^
addre	ss	в0	В1	В2	вз	В4	В5	В6	в7	в8	В9	BA	вв		BD	BE	BF	01234	567	89AB	CDEF	
00404			10	00	00	AF	07	76	02	67	7C	00	00	в8	07	E7	00		. v .	gl		
			08	00	00		07	E8	00	00	10	00	00	CB	07		00	g				
			04	00	00		17	E7	00	67	08	00	80	D2	07	77	02	g		g	- W -	
			00	00	00	D6 1F	07 1B	EA 78	00	0B 64	04	00	80	DD 8E	07 17	78	02	٠			.x.	
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00404	240	00	10	00	00	16	08	F1	00	00		00	00	1D	08	F2	00					~

# CRC - BYPASS



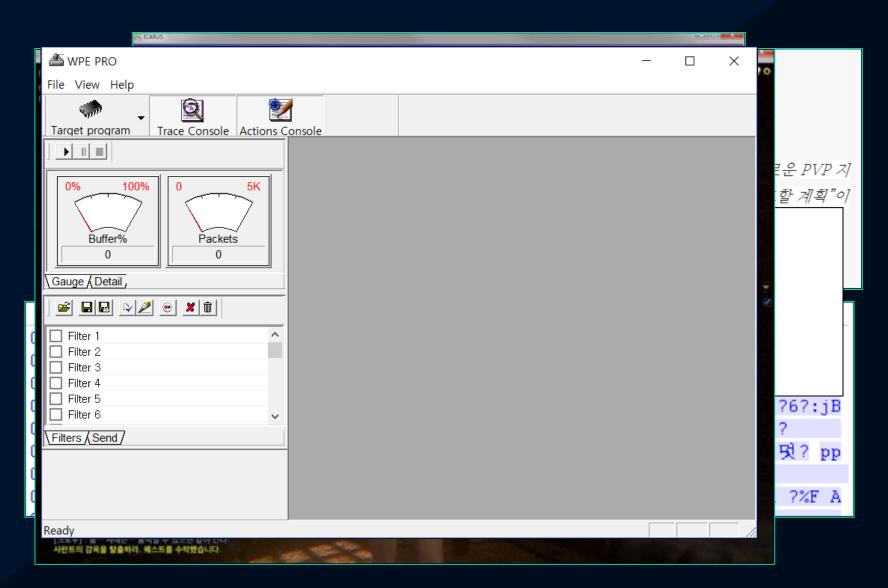
# **CRC - BYPASS**

		Scop Tuno Evact Value		
	E	Auto Assemble edit: CRC Bypass —	×	
	File	view Template		
	1	[Enable]		^
	2	Alloc(Dump, 12582913)		
	3	Alloc(Tiresome, 2048)		
	4	Label (Original)		
	5	Label (Return)		
	6	Loadbinary (Dump, AA.CEM)		
	7	004e9cd6://0F B6 6E 01 8B F8 C1 EF 18 33 FD C1 E0 08 33 04		
	8	Jmp Tiresome		
	9	Nop		
	10	Return:		
	11	Tiresome:		
Memory view	12	Cmp Esi,00401000		
Iviemory view	13 14	Jb Original		
Active Description Add	15	Cmp Esi,01001000		
CRC Bypass	16	Ja Original Sub Esi,00401000		
□ 시간차무적	17	Add Esi, Dump		
	18	Original:		
H - 봅스피드	19	Movzx Ebp, byte ptr [Esi+01]		
	20	Mov Edi, Eax		
	21	Jmp Return		
	22			
	23	Alloc(Tiresomel, 1024)		
	24	Label (Norma 1)		
I 에미릭 I SS 듀프	25	Label (Retur n)		V
│	<	· - ·	>	
□ 공속 □ 제자리리스폰		OK		
Advanced Options			le Exti	rac
Advanced Options		l au	710 EAU	10.5

#### **DLL INJECTION**

```
dwProcess = (DWORD)GetModuleHandleA("Process_name");
       Sleep(40);
   } while (!dwProcess);
   Sleep(500);
   printf("PID: %x\m". dwProcess);
BOOL APIENTRY DIIMain(HMODULE hModul, DWORD ul_reason_for_ca, LPVOID lpReserve)
   switch (ul_reason_for_ca)
   case DLL_PROCESS_ATTACH:
       DisableThreadLibraryCalls(hModul);
       AllocConsole();
       freopen( "CON", "w", stdout );
       CreateThread(NULL, NULL, (LPTHREAD_START_ROUTINE)Module, NULL, NULL, NULL);
       MessageBoxA(NULL, "Start!", "By Empier", MB_OK);
   case DLL_THREAD_ATTACH:
   case DLL_THREAD_DETACH:
   case DLL_PROCESS_DETACH:
       break
```

## **PACKET**



# **NoN-Client Bot**



# **HOOKING**



#### = HOOKING

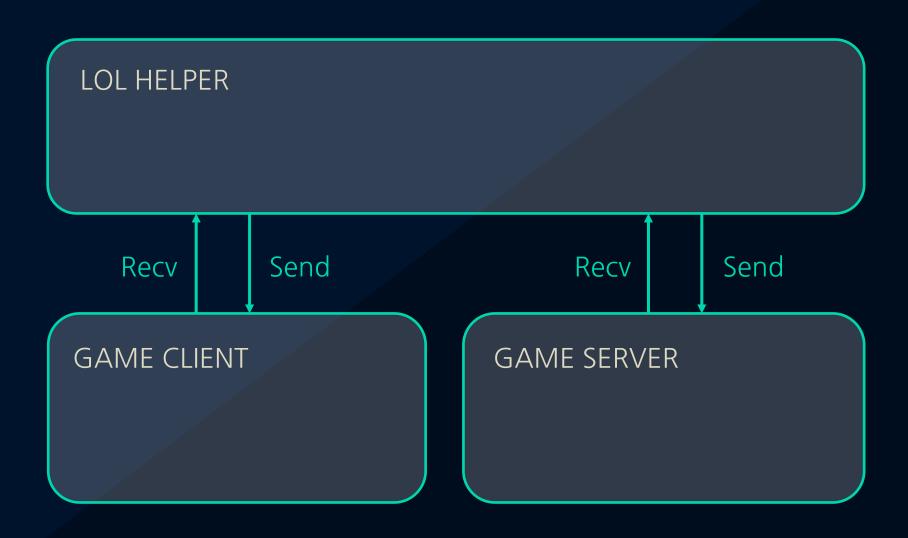
01. Connect 함수를 후킹

02. 내 프로그램의 소켓으로 연결

03. 내 소켓에서 패킷을 복호화하고 원하는 대로 패킷을 변조

04. 다시 암호화 하여 원래 목적지로 전송

# **HOOKING**



#### **SCRIPT**

```
return 0;
 //printf("HANDLE: %x\n",L);
  lual_openlibs(L);
  lua_register(L, "showtext", lua_showtext);
  lua_register(L, "say", lua_say);
  lua_register(L, "do_command", lua_do_command);
  lua_register(L, "sleep", lua_sleep);
  lua_register(L, "rand", lua_rand);
  lua_register(L, "keypress", lua_keypress);
  lua_register(L, "keyup", lua_keyup);
  lua_register(L, "keydown", lua_keydown);
int lua sleep(lua State* L)
   unsigned int a = 0;
   a = (int)|uaL_checkinteger(L, 1);
   sleep(a);
   return 0;
```

# **DEMO**



## **DRIVER**

```
v5 = a4;
v6 = a3;
Object = 0164;
v7 = 0x00000001;
if ( PsLookupProcessByProcessId(a1, &Object) >= 0 )
  KeAttachProcess(Object);
  if ( sub_13604(v6) && sub_13604(v5 + v6 - 1) )
    v9 = dword_24304;
    if ( dword_24304 )
      _disable();
      sub_14A50();
      v9 = dword_24304;
    for ( i = 0; i < (unsigned int)v5; ++i)
      *( BYTE *)(i + v6) = *( BYTE *)(i + a5);// WriteProcessMemory
    v7 = 0;
    if ( U9 )
      LODWORD(v11) = sub_14AC8();
      v12 = v11;
      sub 14A8C();
      _enable();
      DbgPrint("lastError=%p₩n", v12);
      if ( U12 )
        v7 = 0x00000001;
    }
  KeDetachProcess();
  ObfDereferenceObject(Object);
  result = (v7 & 0x80000000) == 0;
```

# **DRIVER**

#### virustotal intelligence

na	tive 64bits signed keattachprocess	Search		■ Hashe	es 🛛 🛛 Sele	ect ▼	Download ▼
247 f	iles found						
File		Ratio	First sub.	Last sub.	Times sub.	Sources	Size
	22b1df2a21ecdb6ac24bb3f5fb5718a16bf665f15fddf71ca3b51fd4ff2ab68b b112888499a5f381ab9a0cf2ddfe8fbc  ① III ③ Q peexe assembly overlay signed 64bits native	2 / 6	2018-07-0 16:53:17	22 2018-07-02 16:53:17	1	1	16.5 KB
	f85de9c0f1b0354903789f3d5dd2b8afaf53148a9e4f14235e1835a096cae3a7f476fbfa979f1df949e387faafd0fb8e  ②	7 3 / 6	3 2018-07-0 13:00:42	22 2018-07-02 13:00:42	1	1	12.8 KB
	85eb616ab4424ea27ea3dcad7df1a8b7a5ed8e533212927e2b1dfb03679c78e71a3adbe7eb8aed5fe7c97f8451eb2c  ① III ② Q peexe assembly overlay signed 64bits native	58f 5 / 6	2018-07-0 08:53:10	22 2018-07-02 08:53:10	1	1	16.6 KB
	50bf5b7626970f5213cacf595b1f442b7538665228e768c13c2feb2b0485b919 f5bedb5bd7534608ca4958a8b0f82bcd  ②	9 33/0	2018-07-0 00:56:20	22 2018-07-02 00:56:20	1	1	113.8 KB
	4a7e58331d7765a12f53dc2371739dc9a463940b13e16157ce10db80e958d 548260a7b8654e024dc30bf8a7c5baa4	740 0 / 6	2010-02-1 15:38:47	2018-07-01 19:20:27	349	45	91.0 KB

# **SECURITY**

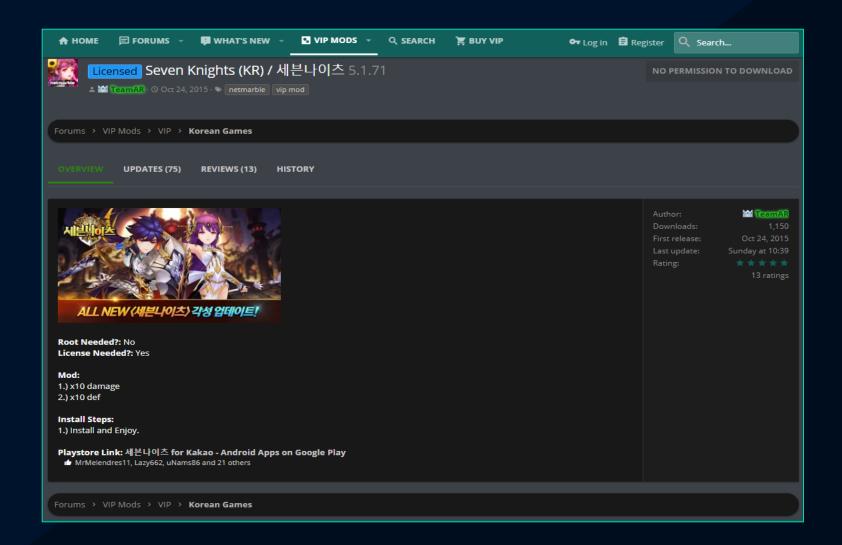








## **MOBILE**



끝으로...

# Q&A