Rig EK via Fake EVE Online website drops Bunitu.

zerophagemalware.com/2017/06/07/rig-ek-via-fake-eve-online-website-drops-bunitu/

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Summary:

Through RoughTed I found my old <u>Bunitu</u> chain. This time instead of poker or adult themes, the threat actors are using EVE Online which is a very popular space themed MMORPG.

The fake website contained the same redirection mechanisms as previous Bunitu posts. That is it redirects to a domain hosted on the same IP and then there is an iframe to Rig EK containing the "small" tag. I did not test the fake EVE website to determine if any phishing was involved.

Oddly I found strings for Space Invader within Bunitu. It will be interesting if anyone can find out why that is so.

Background Information:

A few articles on Rig exploit kit and it's evolution:

https://www.uperesia.com/analyzing-rig-exploit-kit http://malware.dontneedcoffee.com/2016/10/rig-evolves-neutrino-waves-goodbye.html http://securityaffairs.co/wordpress/55354/cyber-crime/rig-exploit-kit-cerber.html

Article on Bunitu Trojan:

https://blog.malwarebytes.com/threat-analysis/2015/07/revisiting-the-bunitu-trojan/

Article on Rough Ted:

https://blog.malwarebytes.com/cybercrime/2017/05/roughted-the-anti-ad-blocker-malvertiser/

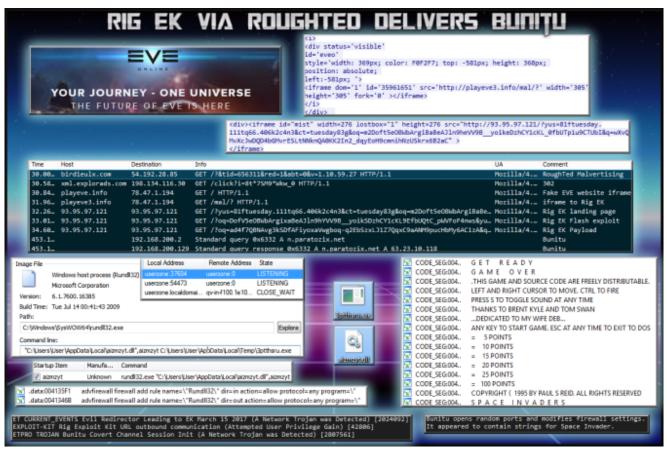
Downloads

(in password protected zip)

- <u>07-June-2017-Rig-Bunitu-PCAP</u> -> Pcap
- <u>07-June-2017-Rig-Bunitu-CSV</u>-> CSV of traffic for IOC's
- <u>07-June-2017-Bunitu</u> -> Bunitu (exe and dll)

Details of infection chain:

(click to enlarge!)



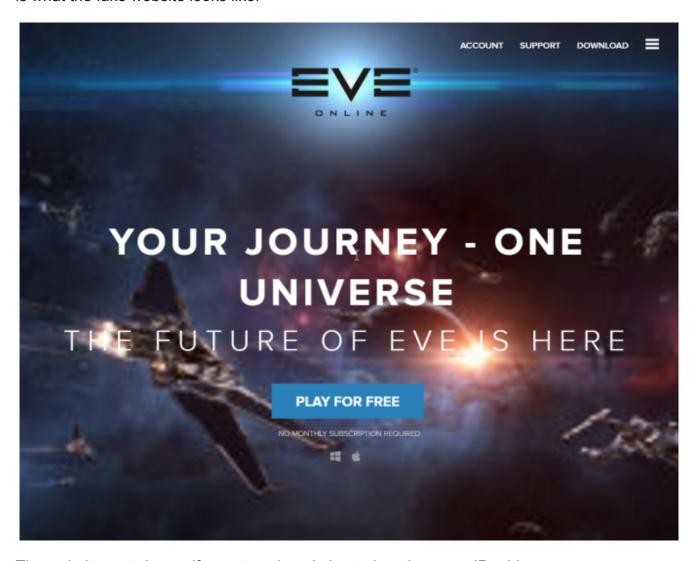
Rig EK via a fake EVE Online site drops Bunitu proxy trojan.

Full Details:

RoughTed is a malvertising operation known for it's wide scope. See the MalwareBytes article above for a more in depth dive.

```
GET /?&tid=656311&red=1&abt=0&v=1.10.59.27 HTTP/1.1
Accept: application/x-ms-application, image/jpeg, application/xaml+xml, image/gif, image/pjpeg, application/x-ms-
xbap, */*
Accept-Language: en-GB
User-Agent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1; WOW64; Trident/4.0; SLCC2; .NET CLR 2.0.50727;
.NET CLR 3.5.30729; .NET CLR 3.0.30729; Media Center PC 6.0; .NET4.0C; .NET4.0E)
Accept-Encoding: gzip, deflate
Host: birdieulx.com
Connection: Keep-Alive
Cookie: tmr=1; fv=rjn4qTC4qTgGqGEFqdU7qHU7qTs6vdw=
HTTP/1.1 302 Found
Content-Type: text/plain
Content-Length: 0
Connection: keep-alive
Date: Wed, 07 Jun 2017 00:50:41 GMT
Cache-Control: no-store, no-cache, proxy-revalidate, must-revalidate, private, no-transform
Location: http://xml.explorads.com/click?i=8t*7SM9*Wkw_0
P3P: CP="NID DSP ALL COR"
Pragma: no-cache
Set-Cookie: fv=rjn4qTC4qTgGqGEFqdU7qHU7qTnFvds=; Expires=Thu, 07 Jun 2018 00:50:41 GMT; Max-Age=31536000;
Domain=.birdieulx.com; Path=/; Version=1
X-Cache: Miss from cloudfront
Via: 1.1 777ac4fd1779febf5de6a3c32f7eca4b.cloudfront.net (CloudFront)
X-Amz-Cf-Id: qzzhEoVcUpXq-7EeiiiM06rIu_P74bauQIIUciIDw70AVrlrNyc3uw==
```

This led to a fake EVE Online website which appears to mirror the official EVE Online. Below is what the fake website looks like.



The website contains an iframe to a domain hosted on the same IP address

This domain contains an iframe leading to Rig EK. As with previous Bunitu posts, this gate always contains the "small" tag.

Rig EK then dropped Bunitu proxy trojan. Bunitu opens random ports by changing firewall settings and allows the host to become a remote proxy. Every time a client connects, Bunitu issues a DNS request. Although these did not trigger any ET signatures I am sure they are initiated by Bunitu.

Usually I would link a Virus Total link or a Hash but I will update that later.

The below shows strings associated with firewall changes and the DLL that is dropped.

```
's' .data:004137BF 00000014
                               C
                                     :*:Enabled:rundll32
's' .data:004137A9 00000014
                               C ogon\\Notify\\aizmzyt
's' .data:00413794 00000012
                             C T\\CurgentWersion\\
                            C RPFTWARE\\Micrptoft\\Xjndows
's' .data:00413778 0000001C
's' .data:004135F1 00000059
                            C advfirewall firewall add rule name=\"Rundll32\" dir=in action=allow protocol=any program=\"
's' .data:0041346B 0000005A
                             C advfirewall firewall add rule name=\"Rundll32\" dir=out action=allow protocol=any program=\"
data:004133FA 00000071 C SYSTEM\\ControlSet001\\Services\\SharedAccess\\Parameters\\FirewallPolicy\\StandardProfil...
                            C netsh.exe
's' .data:004133F0 0000000A
s .data:004133D9 00000017 C \\system32\\rundll32.exe
```

Interesting i found strings for Space Invaders. I'm not sure why these are present!

Address	Length	Туре	String
's' CODE_SEG:004	0000001B	C	GET READY
's' CODE_SEG:004	0000001B	C	GAME OVER
's' CODE_SEG:004	00000035	C	.THIS GAME AND SOURCE CODE ARE FREELY DISTRIBUTABLE.
's' CODE_SEG:004	0000002C	C	LEFT AND RIGHT CURSOR TO MOVE. CTRL TO FIRE
's' CODE_SEG:004	00000024	C	PRESS S TO TOGGLE SOUND AT ANY TIME
's' CODE_SEG:004	00000022	C	THANKS TO BRENT KYLE AND TOM SWAN
's' CODE_SEG:004	0000001F	C	DEDICATED TO MY WIFE DEB
's' CODE_SEG:004	00000036	C	ANY KEY TO START GAME. ESC AT ANY TIME TO EXIT TO DOS
's' CODE_SEG:004	0000000F	C	= 5 POINTS
's' CODE_SEG:004	000000F	C	= 10 POINTS
's' CODE_SEG:004	000000F	C	= 15 POINTS
's' CODE_SEG:004	000000F	C	= 20 POINTS
's' CODE_SEG:004	000000F	C	= 25 POINTS
's' CODE_SEG:004	000000F	C	= 100 POINTS
's' CODE_SEG:004	00000036	C	COPYRIGHT (1995 BY PAUL S REID. ALL RIGHTS RESERVED
's' CODE_SEG:004	00000029	C	SPACE INVADERS
's' CODE_SEG:004	0000000B	C	000000000
CODE SECTOR	00000005	_	27.2