


# 程序代写代做 CS编程辅导


## Investigation(Aside): OilRig Case Study

Webshells use  their respective goals

Webshell	Goal
HyperShell	TwoFace loader which when decrypted, <b>drops the webshell, HighShell.</b>
HighShell v5.0	<ul style="list-style-type: none"> <li>Variant of the TwoFace payload with two exceptions in the user interface, a <b>version number</b> and a means of displaying <b>error messages and command results.</b></li> <li>Also includes a <b>salt value</b> applied to the actor-provided password for authentication.</li> <li>Another variant of HighShell v5.0 introduced an <b>explorer tab</b> to navigate the file system of the compromised server.</li> </ul>
HighShell v7.1	Expanded to <b>split main functionality</b> across multiple tabs, 'Command', 'Explorer', 'Upload', 'SQL Server' and 'Change Time'.
HighShell v8.6.2/v8.8.5	<ul style="list-style-type: none"> <li><b>Enhanced user interface.</b></li> <li>Includes a <b>front end</b> user interface that interacts with a back end script via AJAX web requests.</li> <li><b>New executable modules '7za'</b> to archive files from the Explorer tab, <b>'nbtscan'</b> to scan the network for systems to build an IP list it can interact with and <b>'rx'</b> for remote execution.</li> <li>The <b>Network downloader</b> functionality to allow the actor to quickly upload user files from remote victim systems and rapidly check for the creation of new files by network users.</li> <li>The <b>spy check</b> feature that compares the SHA256 hash of the HighShell front end to notify the actor to avoid using the webshell in the event of modification of the webshell.</li> </ul>
Minion	<ul style="list-style-type: none"> <li>Variant of HighShell.</li> <li><b>Extends functionality</b> by including modules <b>'Hobocopy'</b>, a backup/copy tool and <b>'Tardigrande'</b> a port-scanning, screenshot tool.</li> </ul>

# Logical abstraction to get to writing indicators of compromise

IOC	Tool Used	Data required to analyse	Logical abstraction to get to IOC
Poison Frog / Myleftheart[.]com		dropper 'sonfrog.ps1' which calls the poison frog scripts 'hUpdater.ps1' and 'dUpdater.ps1' that uses HTTP for C2 and uses DNS tunneling for C2.	<ul style="list-style-type: none"> <li>For the agent, there should be a server that would allow the actor to interact with the compromised system.</li> <li>Both of the poison frog agent scripts were configured to use this domain as its C2 server.</li> </ul>
office365-management[.]com (185.162.235[.]29) msoffice-cdn[.]com (185.162.235[.]121)	DNS Hijacking Script	An example adversary IP for the legitimate domain to be redirected to.	<ul style="list-style-type: none"> <li>The examination of the Class C IP block of 185.162.235[.]0/24 showed these domains which were previously identified as C2 servers for OilRig.</li> </ul>
185.162.235[.]106	DNS Hijacking Script	Analysis of the IP	<ul style="list-style-type: none"> <li>The analysis of this IP provided possible relationships to previous OilRig infrastructure.</li> <li>The examination of the hosting provider showed that this IP was associated with an Iranian hosting provider called NovinVPS.</li> <li>The autonomous system name of the IP showed that the allocation was controlled by Serverius Holding B.V., which was previously associated with OilRig.</li> </ul>
185.161.209[.]57 / 185.161.210[.]25	Administrative panel for a VPS account on DeltaHost	Screenshots of web browser sessions into VPS administrative panels.	<ul style="list-style-type: none"> <li>These IPs were listed in the panel and were in the same range as an IP associated with the DNSspionage campaign.</li> </ul>

			<ul style="list-style-type: none"> <li>• The combination of the use of DeltaHost and IPs belonging to a fairly small range.</li> </ul>
<p>OopsIE payload 193.111.152[.]13</p>		<p>Screenshots of web browser sessions into S administrative panels.</p>	<ul style="list-style-type: none"> <li>• Observation of an organisation targeted by OilRig downloading a zip archive '[redacted]-ITsoftwareUpdate.exe', a variant of the OopsIE Trojan from this address, suggesting the server was in use by OilRig at the time.</li> </ul>
<p>164.132.67[.]216</p>	<p>Glimpse (backdoor)</p>	<p>Screenshots of remote desktop (RDP) sessions showing the Glimpse panel.</p>	<ul style="list-style-type: none"> <li>• Screenshot in leak of RDP session with a server running the Glimpse C2.</li> </ul>
<p>142.234.157[.]21</p>	<p>Scarecrow (backdoor)</p>	<p>Screenshots of web browser sessions displaying the Scarecrow panel.</p>	<ul style="list-style-type: none"> <li>• The server of this backdoor is hosted on this address and it is evident in the snapshot that multiple systems were compromised.</li> </ul>

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