程序代写代做 CS编程辅导 Elton Wong

9 November 2018: sr

Initial Access
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 availal

- open an attachmentCredential Access Account Manipulation
 - o It is high high the credestills the from this account were used to gain access to other systems
- Credential Access Credential Dumping
 - o This "interaction less" attack result to in the senior staff member's cleant als being sent to several external web addresses

12-14 November 2018: Webserver infrastructure Compromise 63.com

- Credential Access Account Manipulation
 - o It is probable that the actor is Gredentials gained on 9 November to successfully access
- Persistence Web Shell
 - o The actor(successfully created a webshell on this webserver which was then used
- Command and Control Standard Application Layer Protocol
 - conduct command and control (C2) operations through what is known as a TOR exit node

16 November 2018: compromise of legacy infrastructure

- Discovery System Network Connections Discovery
 - the server was attached to a virtual LAN with extensive access across the ANU network
- Credential Access Account Manipulation
 - o the credentials stolen on 9 November were used to log on to this machine
- Privilege Escalation Exploitation for Privilege Escalation
 - o a privilege escalation exploit was used to gain full control of the server

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20-21 November 2018: the creation of attack station one

- Execution Co
 - o tools the first of mised a second Internet facing webserver using a websh
- Execution S₁
- Lateral Movement
 - o perform remote management tasks
- Defense Evasion Indicator Removal on Host
 - o scheduled de ation flogs to be la liberativities
- Discovery Remote System Discovery
 - o The actor started to map the ANU network on 21 November Assignment Project Exam Help

22 November 2018: the creation of virtual machines on attack station one

- Defense Evasion Militaria Light Constant Const
 - o the actor set up two virtual machines on attack station one
- Discovery Network Sniffing
 - o the actorise a network se stony of the actorise a network traffic
- Lateral Movement Remote Desktop Protocol
 - o The ac qraspesined actis (through remoq qasktop) to a machine in a school which had a publicly routable IP address
- Discovery Remote System Discovery
 - The actor continued to map the ANU network on this day.

23 November 2018: exfiltration of network mapping data

- Command and Control Standard Application Layer Protocol
 - The actor connected to a legacy mail server and sent three emails to external email addresses
- Exfiltration Exfiltration Over Command and Control Channel
 - The emails sent out likely held data gained from the actor's network mapping from the previous two days, as well as user and machine data.
- Defense Evasion Connection Proxy

- Credential Access Network Sniffing
 - The actor commenced network packet captures, most likely to collect more creder work

25–26 of November:

- Initial Access
 - The actual state attempt to gain credentials using spearphishing emails.
- Test Capabilities Jest signature detection for file upload/email filters
 - o Some of these emils ar peace of the test of the Some of the emils ar peace of the test of the some of the ANU mail filters would block the actor's spearphishing emails.
- Credential Access Credential Dumping
 - o This spears thing an annual ted in poly preciser' dradental being processed
- Discovery Domain Trust Discovery
 - The actor plan acres sed the network's Light Directory Access Protocol (LDAP) infrastructure
- Discovery System Owner/User Discovery
 - o gaining information of the and poor of Windows users and devices.

27 November: access to ESD file shares achieved nttps://tutorcs.com

- Credential Access Account Manipulation
 - began a network-wide attempt to compromise a range of servers using exploits or stolen credentials
- Collection Data from Network Shared Drive
 - The actor eventually found credentials to access file shares in ESD and other parts of the network; and mapping directory structures.
- Discovery Remote System Discovery
 - The actor also starts to map out machines in ESD and locates servers housing the databases underpinning ANU HR, finance, student administration and e-forms systems.
- Execution Command-Line Interface
 - Late on 27 November the actor downloads source code for a bespoke toolset or malware; this code is then compiled and run.
- Defense Evasion File Deletion

- o The nature of this code is unknown as the actor wiped it and the compiled executate at the use. 与代文CS编程辅号
- Credential Access Brute Force
 - Forensic evidence also shows the extensive use of password cracking tools at this stage.
- - o The action is the administrative databases directly using a community of the actor to connect to several databases at once the contract of t

29 November 2018: the pt

- Defense Evasion Disabling Security Tools
 - o connecting to the University's spam filer and attempting to disable its ability to detect malicious emails
- Initial Access Spearphishing Link
 - o The actor then sent 75 emails, 50 to NU addresses and the remaindent of external email accresses. These were used to either exfiltrate data or to pundertake more spearphishing.
- Credential Access Credential Dumping
 - The actor was able to have to the specific described in the street of the specific described in the street of the specific described in the street of the str

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29 November – 13 December 2018: clean-up operations and loss of attack station one.

- Defense Evasion , Indicator Removal on Host
 - One such clean up phase commenced on 29 November with the actor erasing files and tools with logs packaged for exfiltration through school machine one, which itself was also subject to clean up operations.

13–20 December 2018: new attack station and resumption of exfiltration

- Command and Control Standard Application Layer Protocol
 - This machine was subject to a large amount of C2 activity between 13 and 19
 December. Forensic analysis suggests this activity is associated with the actor
 preparing attack station two presumably to either continue extracting data from
 ESD or to start a new phase of the campaign.
- Exfiltration Data Compressed
 - On 19 December, the actor exfiltrated 13 additional files, compressed into archives, through TOR.

- Discovery Remote System Discovery
 The actorials of the parts of the network of the systems and began updating malware on attack station two.
- 21 December 2018: f
 - Initial Access
 - The action of the sers with administrative access and sends 40 phishing emails to the sers with administrative access and sends 40 phishing emails to the sers with administrative access and sends 40 phishing emails to the sers with administrative access and sends 40 phishing emails to the sers with administrative access and sends 40 phishing emails to the sers with administrative access and sends 40 phishing emails to the sers with administrative access and sends 40 phishing emails to the series of the series with administrative access and sends 40 phishing emails to the series with administrative access and sends 40 phishing emails to the series with administrative access and sends 40 phishing emails to the series with a series with
- 22 December 2018 March 2019: C2 activity and second intrusion attempt
 - Command and Control Standard Application Layer Protocol
 - As note how the was a confident of the Sn February 2019 against an externally facing webserver.
 - This activity also aligns to C2 activity seen throughout January and in early March Angly agriculture of the Exam Help

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This ANU hacking demonstrated the sophistication of the actor, it first compromised certain accounts and then established attack stations within the network. This actor possesses outstanding opsec skills as it continuously whese out the files and logs which leave very little traces for forensic. Given the persistent and skill level of the actor, it might a state actor as no financial loss has been reported by ANU since this incident. But the interesting thing is the actor didn't extract any research that during the campaign, so there might be a chance the actor is trying to gather intel of the university itself and infiltrate the university physically.