โดรงการ CO-OP SHOWCASE : ก้าวแรกสอาชีพ ประจำปี 2567 ผลงานสหกิจศึกษาดีเด่น ประเภทโครงงาน/ผลงาน วทยาศาสตร และเทคโนโลยิ I-BIT CWIE DAY 2024



Starcat admin monitoring

Sutthipat Imprapai^a, Asst. Prof. Dr. Silanee Nuchitprasitchai^b, Asst. Prof. Dr. Pudsadee Boonrawd^c

^aElephant Tower, Tower B, 20th Floor, Phahonyothin Rd, Jompol, Chatuchak, Bangkok 10900, Thailand ^bKing Mongkut's University of Technology North Bangkok, 1518 Pracharad Road, Wong Sawang, Bang Sue, Bangkok 10800, Thailand

Abstract

This project aims to improve the installation and monitoring processes for Crowdstrike software using the Starcat system. By addressing key challenges such as firewall blocking, duplicate IP addresses, and system overload due to automatic IP discovery, the project focuses on optimizing network management. Through remote monitoring with AnyDesk, manual IP range inputs, and structured data handling via Excel, the project ensures efficient IP tracking, improved system performance, and the successful deployment of Crowdstrike across various locations.

3					Syste	n Configuration	
Basic Settings	General	Server Setting	Network	Data Refreshing	Alerts	Popup Messages Console	
Advanced Settings	Client IP Barge					File Transfer	
	10.2	42.129.130			Add	25002 +	
	1	0.242.129.112		A Ir	sert		

Introduction

This title clearly reflects the focus of the project, which involved overseeing the installation and management of IP addresses for machines using the Starcat system, coupled with the deployment of Crowdstrike across multiple locations. The project addressed several critical challenges, including network security via firewalls, handling duplicate IP addresses, and ensuring system efficiency. A structured approach was employed to verify installations remotely, manage IP data, and streamline communication between the installation and monitoring teams, leading to the successful execution of the project.

Methodology

1. Remote Monitoring with AnyDesk:

I used AnyDesk to remotely access machines and verify that the installations of Crowdstrike were complete. This involved checking the machines' IP addresses, ensuring the software was running properly, and identifying any connectivity issues due to firewalls or network configurations.

2. IP Verification via Starcat Software:

The project involved using the features of Starcat software to check and verify the IP addresses after the installation team had installed Crowdstrike. I accessed the IPs and confirmed the correct configuration through Starcat's IP management feature, ensuring that the machines were properly connected to the network and



Results

1. Crowdstrike Successfully Installed Across All Machines:

Despite initial challenges with firewalls and duplicate IP addresses, the Crowdstrike software was installed on all machines across the various locations. Every machine was properly connected to Starcat and verified to be functioning as expected.

2. Efficient IP Management System:

protected.

3. Manual IP Range Input to Optimize Starcat Performance:

Due to the system overload caused by Starcat's automatic IP discovery, I manually inputted IP ranges to prevent continuous scanning and reduce the system's workload. This method ensured that only specific IP ranges were targeted, leading to more efficient device discovery and better system performance.

4. Coordination with Installation Team:

Establishing clear communication protocols with the installation team was essential to ensure that IPs were shared in real-time. I developed a system for receiving updates and verifying installations promptly, reducing delays and ensuring the project stayed on track.



Operating	System		
Version	Windows 10 Professional x64		
Build	10240	Service Pack	0.0
Product Type	Professional x64	Installer	Admin
Product ID	00331-10000-00001-AA271		
Product Key	W269N-WFGWX-YVC9B-4J6C9-T8	83GX	
Language	English	Country	United States
OS Folder	C:\Windows	Install Date	8/27/2015 3:37:37 AM
Up Time	117:51:56	Last Boot	11/13/2015 3:02:56 PM

ook for	Alias	÷	Alias Name - Client IP Discovery
hat's Ne	Alias DeviceName	^	agement
File Tra	IP Address MAC Address OwnerID		* OCOB 4 0 \$
Name	Logged On User Serial Number Serial Number Equ	\$	StarCat 2013 Server (24/64)

ซอฟต์แวร์สตาร์แคทสามารถจัดสร้างกลุ่มของเครื่องลูกข่ายได้ 3 ประเภท คือ

กลุ่มเครื่องลูกข่ายหลัก (Static Group) เป็นกลุ่มเครื่องลูกข่ายที่กำหนดได้อย่างอิสระโดยผู้บริหารระบบ เช่น การสร้างกลุ่มตามแผนกหรือฝ่าย สถานที่ติดตั้ง เป็นต้น เครื่องลูกข่ายแต่ละเครื่องสามารถเป็นสมาชิก ในกลุ่มเครื่องคอมพิวเตอร์ลูกข่ายหลักได้เพียง 1 กลุ่ม Static Group

กลุ่มเครื่องลูกข่ายเสมือน (Virtual Group) เป็นกลุ่มเครื่องลูกข่ายที่กำหนดโดยผู้บริหารระบบ เสมือนเป็น ทางลัด (Shortcut) เพื่อประโยชน์ในการจัดการเฉพาะอย่างของกลุ่ม เช่น สร้างกลุ่มของเจ้าหน้าที่บริหาร

By transitioning from virtual to static groups in Excel, I developed an IP management system that eliminated duplicate entries. The system was organized by building, floor, and department, ensuring that every machine had a unique IP and could be easily tracked within the network.

Resources «	0000000000		POCE	50					
Name Size	StarCat 2013 Server (22/63)	Alian	- Device Name	IP Address	Owner	Serial Number	Domain Name	Logen User	D
AGENT		ADMIN-24FEA205A	ADMIN-24F84205A	192 168 0 84	Unassigned	VMware-56 4d 7e b9	WORKSHOUP		38
ATTACHEDR.	Carlault Condition Groups (20)	ARISA-PC	ARISAPC	192,168.0.112	Uninterprint	RSAWRPH	WORKSHOUP	Avaa	LE
AUTOTRANS.	DefaultNAC Constition Group	ARISAPC	ARISAPC	192 168 0 99	Unassigned	REDGRIVW/TRENDE	WORKSROUP	Area	LE
TOOLS	Benut (00)	CHADAPHONIPC	CHADAPHONPC	192 168 0 46	Unassigned	RSZ188D	WORKGROUP	Oradaphon	LE
TRANSFER	- Si Unamigrad (2263)	CHALEENB	CHALEE-NB	192.168.0.75	Unanigred	PEOPWVS	WORKGROUP	Administration	LE.
ConsoleUpdate. 20,992	Universided Devices (15/49)	CHANAMATE-PC	CHANAMATE-PC	192,168-0.90	Unansigned	PFDAA77	WORKGROUP	Overanate	18
Disease series 21388	88	CHANTARC	CHANTARC	192 168 0 34	Universigned		WORKSROUP	charits	LE
		CHITIMARC	CHUTIMAPC	192 168 0 33	Unempred	ACE121098W	WORKSHOUP	Chadene	ы
File Transfer		101g CIN-PCTEST	CIN-PCTEST	192.168.0 114	Uneerigned	\$Mean-56 4d 41 h1	WORKGROUP	Advendrator	18
Realization		DANAI-NE	DIAMAI-MB	192 168.0 142	Shassigned	6756551	WORKSROUP	Dena	DF
Software Packages		TOTE DANAH-VMWD7X645	DANAL-VMWID/2645	192 168.0.26	Unassigned	VMware-56 4d 08 d0	WORKSROUP	Advanduator	14
Advanced Scripts		DESKTOP-ENOCHER	DESKTOP-INOCROF	192.168.0.51	Unesigned	5081371605	WORKGROUP	Mours	96
Task Automation		DESKTOP-026FL8M	DESKTOP-ROFLEM	192 1680 118	Dramigrant	CNU123003K	WORKSROUP	Admen	40.
Client Policy		DESKTOP-SERVINA	NATTAWUT-PC	192 162 0 25	Unampred	LXP TYDCOTIOTSONE	WORKGROUP	National-PC	×
One		ANAPONG PC	JAKAPONG PC	192 168 0 44	Unassigned	FORWSOF(3)	WORKSROOP	JAKAPONG	U.
O Disallowed	+ 1000 H	4					and the second second		5

Conclusion

The project successfully optimized Crowdstrike deployment and monitoring across multiple locations by leveraging Starcat for IP management. Overcoming challenges such as duplicate IPs, and system overload, the project provided a structured and efficient approach for network management. The methods developed, including organized IP tracking,

dioup	เพื่อติดตั้งซอฟต์แวร์พิเศษเฉพาะผู้บริหา	5
0000000000	FUENNINGENNIETSURLEREN ISAOSUL	3

offer a scalable, secure solution for future deployments, enhancing both operational efficiency and network security.

Acknowledgements

References

- 1. Palo Alto Networks Firewall Configuration Best Practices https://docs.paloaltonetworks.com/best-practices
- 2. Starcat

https://starcatsoftware.com/feature/

- 3. Cisco Networking Academy Learning Resources https://www.netacad.com/courses/packet-tracer
- AnyDesk Help Center

https://support.anydesk.com/

I would like to express my gratitude to ITNS Company for the opportunity to work on this project. Special thanks to the installation team for their continuous support, providing essential IP data and guidance that made the monitoring and deployment process smoother. I also appreciate the use of Starcat software and AnyDesk tools, which were critical to the project's success. My sincere thanks to the supervisors and colleagues who offered valuable insights and assistance throughout.