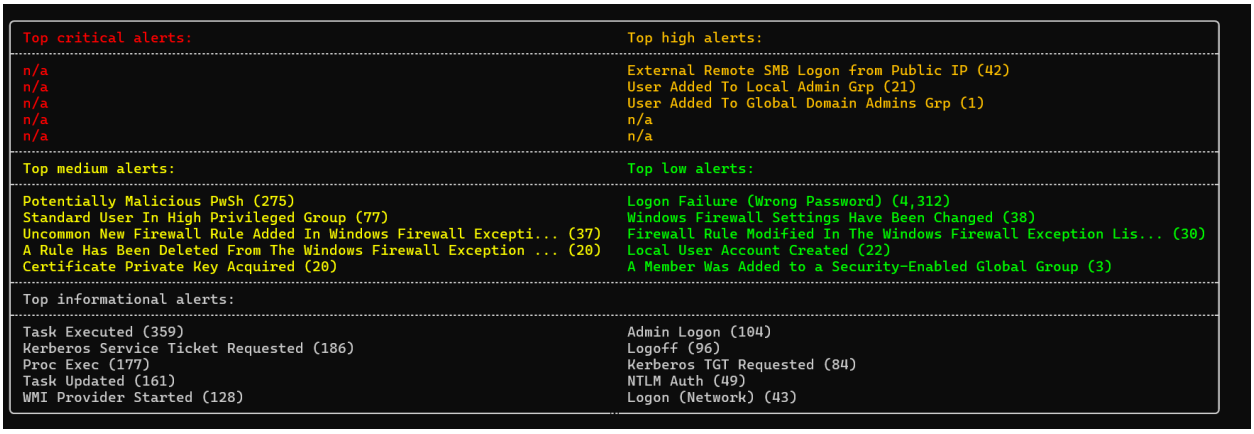
1 Phân tích luồng sự cố

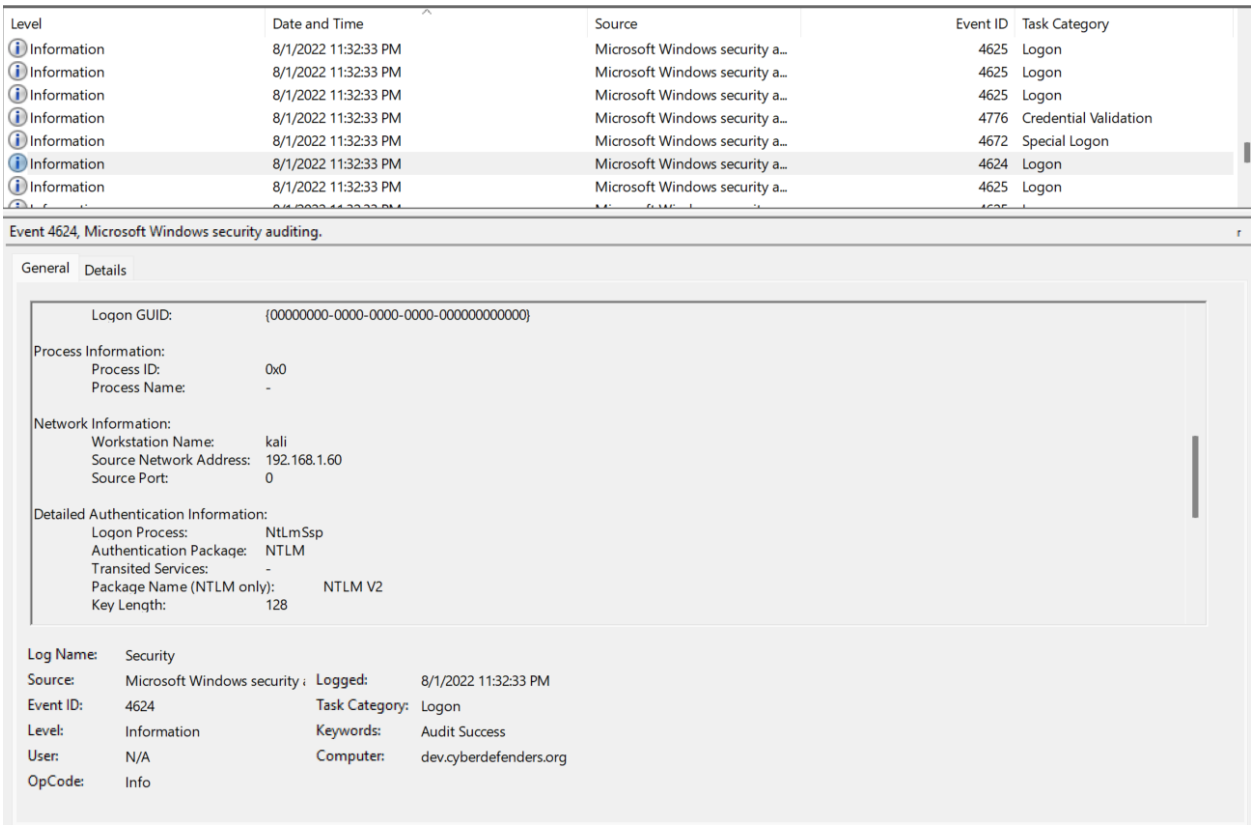
Sử dụng công cụ open source hayabusa [Yamato-Security/hayabusa: Hayabusa (隼) is a sigma-based threat hunting and fast forensics timeline generator for Windows event logs. (github.com)](https://github.com/Yamato-Security/hayabusa) phân tích foder chứa winevt logs thì rule của hayabusa đưa ra rất nhiều alert



Nhìn vào số lượng event Logon Failure(Wrong Passord) là 4312 cho thấy đâu là dấu hiện của việc bị bruteforce .

Timestamp	RuleTitle	Level	Computer	Channel	EventID	RuleAuth
2022-05-19 01:08:07.456 +07:00	Logon Failure (Unknow	low	WIN-Q9O257RHSSD	Sec	4625	Zach Mat
2022-08-01 21:16:45.044 +07:00	Logon Failure (Wrong P	low	dev.cyberdefenders.org	Sec	4625	Zach Mat
2022-08-01 21:16:50.073 +07:00	Logon Failure (Unknow	low	dev.cyberdefenders.org	Sec	4625	Zach Mat
2022-08-01 21:28:35.846 +07:00	Logon Failure (Wrong P	low	dev.cyberdefenders.org	Sec	4625	Zach Mat
2022-08-01 23:18:43.958 +07:00	Logon Failure (Wrong P	low	dev.cyberdefenders.org	Sec	4625	Zach Mat
2022-08-01 23:19:35.884 +07:00	Logon Failure (Wrong P	low	dev.cyberdefenders.org	Sec	4625	Zach Mat
2022-08-01 23:19:45.684 +07:00	Logon Failure (Wrong P	low	dev.cyberdefenders.org	Sec	4625	Zach Mat
2022-08-01 23:19:53.009 +07:00	Logon Failure (Wrong P	low	dev.cyberdefenders.org	Sec	4625	Zach Mat
2022-08-01 23:20:03.274 +07:00	Logon Failure (Wrong P	low	dev.cyberdefenders.org	Sec	4625	Zach Mat
2022-08-01 23:20:12.340 +07:00	Logon Failure (Wrong P	low	dev.cyberdefenders.org	Sec	4625	Zach Mat
2022-08-01 23:26:01.602 +07:00	Logon Failure (Wrong P	low	dev.cyberdefenders.org	Sec	4625	Zach Mat
2022-08-01 23:26:14.552 +07:00	Logon Failure (Wrong P	low	dev.cyberdefenders.org	Sec	4625	Zach Mat
2022-08-01 23:29:09.460 +07:00	Logon Failure (Wrong P	low	dev.cyberdefenders.org	Sec	4625	Zach Mat
2022-08-01 23:29:09.465 +07:00	Logon Failure (Wrong P	low	dev.cyberdefenders.org	Sec	4625	Zach Mat
2022-08-01 23:29:09.617 +07:00	Logon Failure (Wrong P	low	dev.cyberdefenders.org	Sec	4625	Zach Mat
2022-08-01 23:29:09.617 +07:00	Logon Failure (Wrong P	low	dev.cyberdefenders.org	Sec	4625	Zach Mat
2022-08-01 23:29:09.804 +07:00	Logon Failure (Wrong P	low	dev.cyberdefenders.org	Sec	4625	Zach Mat
2022-08-01 23:29:09.831 +07:00	Logon Failure (Wrong P	low	dev.cyberdefenders.org	Sec	4625	Zach Mat
2022-08-01 23:29:09.845 +07:00	Logon Failure (Wrong P	low	dev.cyberdefenders.org	Sec	4625	Zach Mat
2022-08-01 23:29:09.961 +07:00	Logon Failure (Wrong P	low	dev.cyberdefenders.org	Sec	4625	Zach Mat
2022-08-01 23:29:10.110 +07:00	Logon Failure (Wrong P	low	dev.cyberdefenders.org	Sec	4625	Zach Mat
2022-08-01 23:29:10.127 +07:00	Logon Failure (Wrong P	low	dev.cyberdefenders.org	Sec	4625	Zach Mat
2022-08-01 23:29:10.144 +07:00	Logon Failure (Wrong P	low	dev.cyberdefenders.org	Sec	4625	Zach Mat
2022-08-01 23:29:10.314 +07:00	Logon Failure (Wrong P	low	dev.cyberdefenders.org	Sec	4625	Zach Mat
2022-08-01 23:29:10.432 +07:00	Logon Failure (Wrong P	low	dev.cyberdefenders.org	Sec	4625	Zach Mat
2022-08-01 23:29:10.462 +07:00	Logon Failure (Wrong P	low	dev.cyberdefenders.org	Sec	4625	Zach Mat
2022-08-01 23:29:10.469 +07:00	Logon Failure (Wrong P	low	dev.cyberdefenders.org	Sec	4625	Zach Mat
2022-08-01 23:29:10.486 +07:00	Logon Failure (Wrong P	low	dev.cyberdefenders.org	Sec	4625	Zach Mat

Nhìn vào timestamp liên tiếp nhau trong 1 thời gian ngắn càng khẳng định là computer này đã bị bruteforce

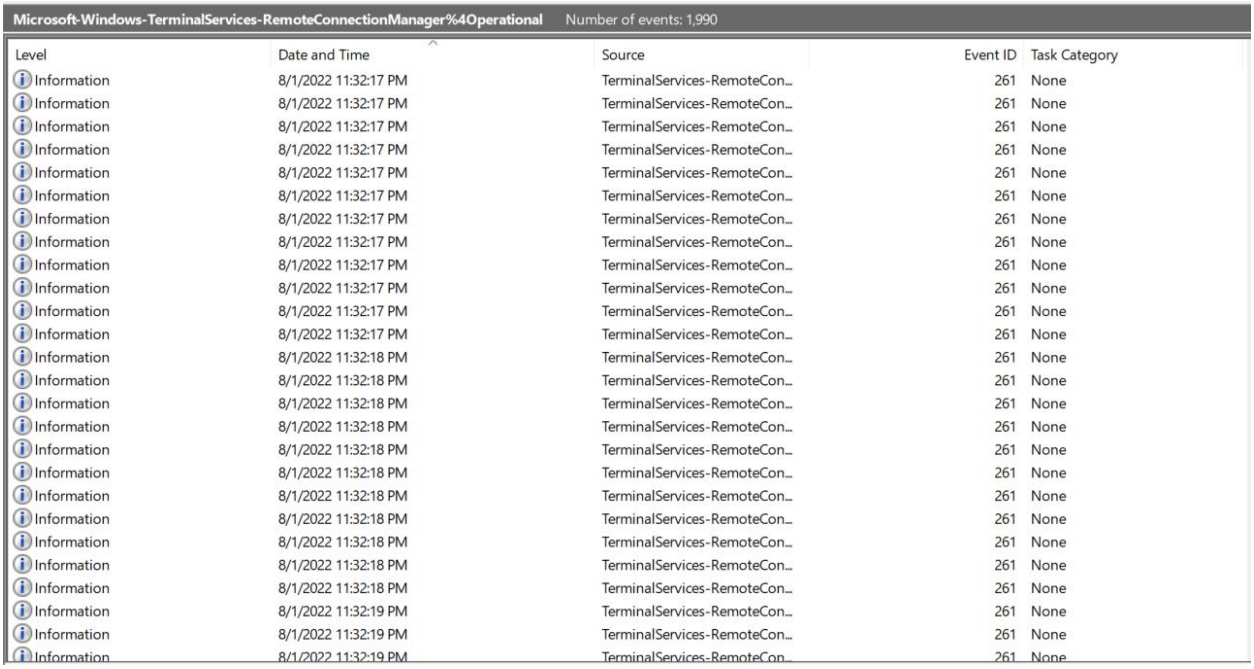


Level	Date and Time	Source	Event ID	Task Category
Information	8/1/2022 11:32:33 PM	Microsoft Windows security a...	4625	Logon
Information	8/1/2022 11:32:33 PM	Microsoft Windows security a...	4625	Logon
Information	8/1/2022 11:32:33 PM	Microsoft Windows security a...	4625	Logon
Information	8/1/2022 11:32:33 PM	Microsoft Windows security a...	4776	Credential Validation
Information	8/1/2022 11:32:33 PM	Microsoft Windows security a...	4672	Special Logon
Information	8/1/2022 11:32:33 PM	Microsoft Windows security a...	4624	Logon
Information	8/1/2022 11:32:33 PM	Microsoft Windows security a...	4625	Logon

Chúng ta có thể thấy ip của attacker là 192.168.1.60

Timestamp	RuleTitle	Level	Computer	Channel	EventID	RuleAuthor	RuleMo	Status	Record	Details	ExtraFi	MitreTactics
2022-08-01 23:32:34.140 +07:00	RDS Logon	info	dev.cyberdefenders.org	RDS-RCM	1149	Zach Mathis	########	stable	2639	User: squadronwar ▯▯	-	LatMov
2022-08-01 23:32:44.081 +07:00	RDS Logon	info	dev.cyberdefenders.org	RDS-RCM	1149	Zach Mathis	########	stable	2761	User: interjectaerobics	-	LatMov
2022-08-01 23:32:53.768 +07:00	RDS Logon	info	dev.cyberdefenders.org	RDS-RCM	1149	Zach Mathis	########	stable	2880	User: infestedmerchant	-	LatMov
2022-08-01 23:33:03.592 +07:00	RDS Logon	info	dev.cyberdefenders.org	RDS-RCM	1149	Zach Mathis	########	stable	3001	User: turtledoverecall ▯	-	LatMov
2022-08-01 23:33:13.409 +07:00	RDS Logon	info	dev.cyberdefenders.org	RDS-RCM	1149	Zach Mathis	########	stable	3119	User: harrashusky ▯▯	-	LatMov
2022-08-01 23:34:57.526 +07:00	RDS Logon	info	dev.cyberdefenders.org	RDS-RCM	1149	Zach Mathis	########	stable	4413	User: administrator ▯▯	-	LatMov
2022-08-01 23:46:10.910 +07:00	RDS Logon	info	dev.cyberdefenders.org	RDS-RCM	1149	Zach Mathis	########	stable	4416	User: administrator ▯▯	-	LatMov

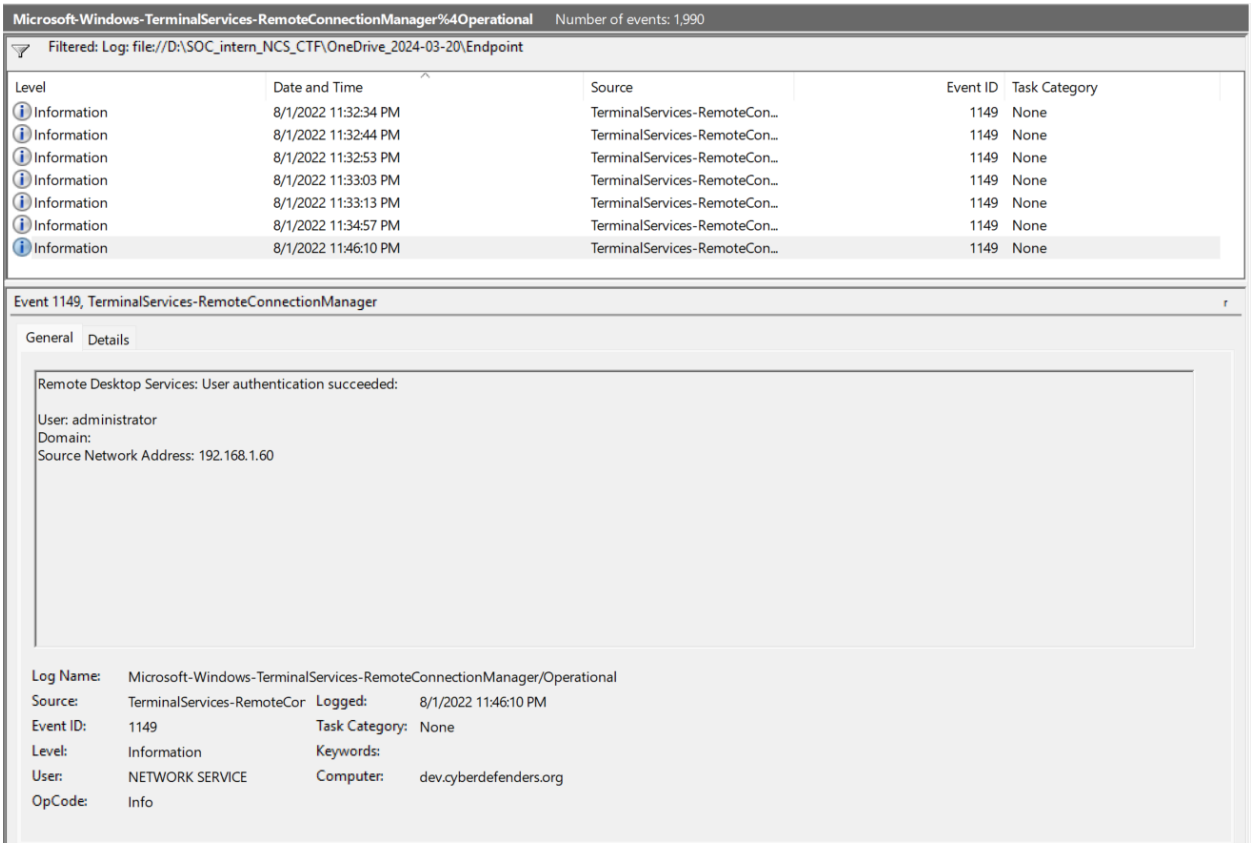
Có vẻ như nó đã dùng RDP để bruteforce chúng ta có thể thấy hayabusa đưa ra alert là có những user này đã login thành công trong thời gian máy bị bruteforce đăng nhập bằng RDP



Microsoft-Windows-TerminalServices-RemoteConnectionManager%4Operational Number of events: 1,990

Level	Date and Time	Source	Event ID	Task Category
Information	8/1/2022 11:32:17 PM	TerminalServices-RemoteCon...	261	None
Information	8/1/2022 11:32:17 PM	TerminalServices-RemoteCon...	261	None
Information	8/1/2022 11:32:17 PM	TerminalServices-RemoteCon...	261	None
Information	8/1/2022 11:32:17 PM	TerminalServices-RemoteCon...	261	None
Information	8/1/2022 11:32:17 PM	TerminalServices-RemoteCon...	261	None
Information	8/1/2022 11:32:17 PM	TerminalServices-RemoteCon...	261	None
Information	8/1/2022 11:32:17 PM	TerminalServices-RemoteCon...	261	None
Information	8/1/2022 11:32:17 PM	TerminalServices-RemoteCon...	261	None
Information	8/1/2022 11:32:17 PM	TerminalServices-RemoteCon...	261	None
Information	8/1/2022 11:32:17 PM	TerminalServices-RemoteCon...	261	None
Information	8/1/2022 11:32:17 PM	TerminalServices-RemoteCon...	261	None
Information	8/1/2022 11:32:17 PM	TerminalServices-RemoteCon...	261	None
Information	8/1/2022 11:32:18 PM	TerminalServices-RemoteCon...	261	None
Information	8/1/2022 11:32:18 PM	TerminalServices-RemoteCon...	261	None
Information	8/1/2022 11:32:18 PM	TerminalServices-RemoteCon...	261	None
Information	8/1/2022 11:32:18 PM	TerminalServices-RemoteCon...	261	None
Information	8/1/2022 11:32:18 PM	TerminalServices-RemoteCon...	261	None
Information	8/1/2022 11:32:18 PM	TerminalServices-RemoteCon...	261	None
Information	8/1/2022 11:32:18 PM	TerminalServices-RemoteCon...	261	None
Information	8/1/2022 11:32:18 PM	TerminalServices-RemoteCon...	261	None
Information	8/1/2022 11:32:18 PM	TerminalServices-RemoteCon...	261	None
Information	8/1/2022 11:32:18 PM	TerminalServices-RemoteCon...	261	None
Information	8/1/2022 11:32:18 PM	TerminalServices-RemoteCon...	261	None
Information	8/1/2022 11:32:19 PM	TerminalServices-RemoteCon...	261	None
Information	8/1/2022 11:32:19 PM	TerminalServices-RemoteCon...	261	None
Information	8/1/2022 11:32:19 PM	TerminalServices-RemoteCon...	261	None

Chúng ta có thể thấy số lượng eventid 261 rất nhiều vào time bị bruteforce cho thấy rõ ràng việc attacker đã bruteforce bằng RDP



Microsoft-Windows-TerminalServices-RemoteConnectionManager%4Operational Number of events: 1,990

Filtered: Log: file://D:\SOC_intern_NCS_CTF\OneDrive_2024-03-20\Endpoint

Level	Date and Time	Source	Event ID	Task Category
Information	8/1/2022 11:32:34 PM	TerminalServices-RemoteCon...	1149	None
Information	8/1/2022 11:32:44 PM	TerminalServices-RemoteCon...	1149	None
Information	8/1/2022 11:32:53 PM	TerminalServices-RemoteCon...	1149	None
Information	8/1/2022 11:33:03 PM	TerminalServices-RemoteCon...	1149	None
Information	8/1/2022 11:33:13 PM	TerminalServices-RemoteCon...	1149	None
Information	8/1/2022 11:34:57 PM	TerminalServices-RemoteCon...	1149	None
Information	8/1/2022 11:46:10 PM	TerminalServices-RemoteCon...	1149	None

Event 1149, TerminalServices-RemoteConnectionManager

Remote Desktop Services: User authentication succeeded:

User: administrator
Domain:
Source Network Address: 192.168.1.60

Log Name:	Microsoft-Windows-TerminalServices-RemoteConnectionManager/Operational		
Source:	TerminalServices-RemoteCor	Logged:	8/1/2022 11:46:10 PM
Event ID:	1149	Task Category:	None
Level:	Information	Keywords:	
User:	NETWORK SERVICE	Computer:	dev.cyberdefenders.org
OpCode:	Info		

Nó đã bruteforce thành công 6 tài khoản trong đó có administrator . Vào lúc 11:46 attacker có vẻ như đã đăng nhập vào tài khoản này

2 Phân tích file độc hại sự cố

Không có file độc hại

3.IOC

IP : 192[.]168[.]1[.]60

4.Mitre&ATTCK mapping

Brute Force Brute Force, Technique T1110 - Enterprise | MITRE ATT&CK®