

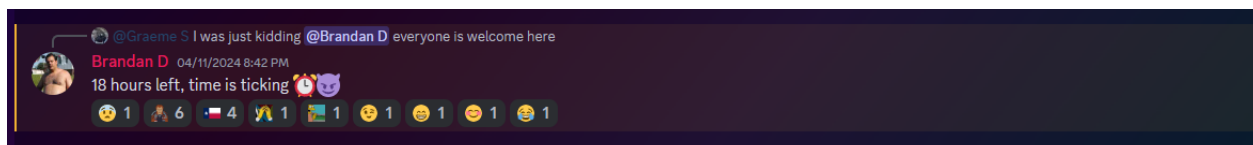
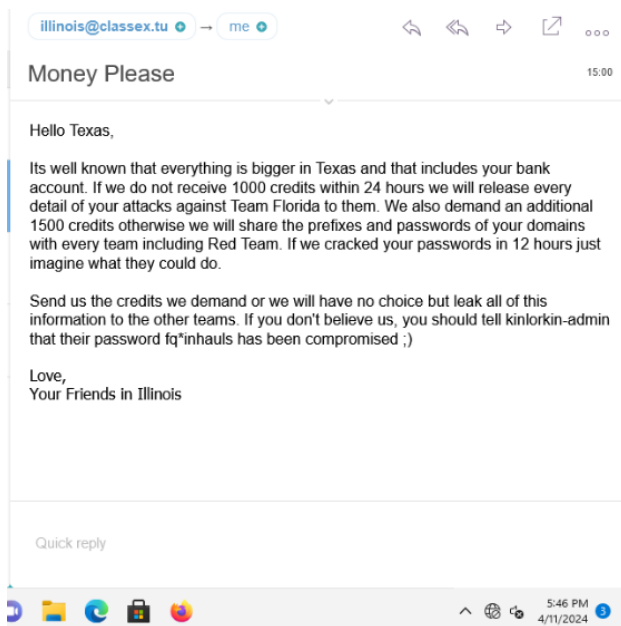
4-15 Incident Response

Team Texas

Illinois Ransom Attack

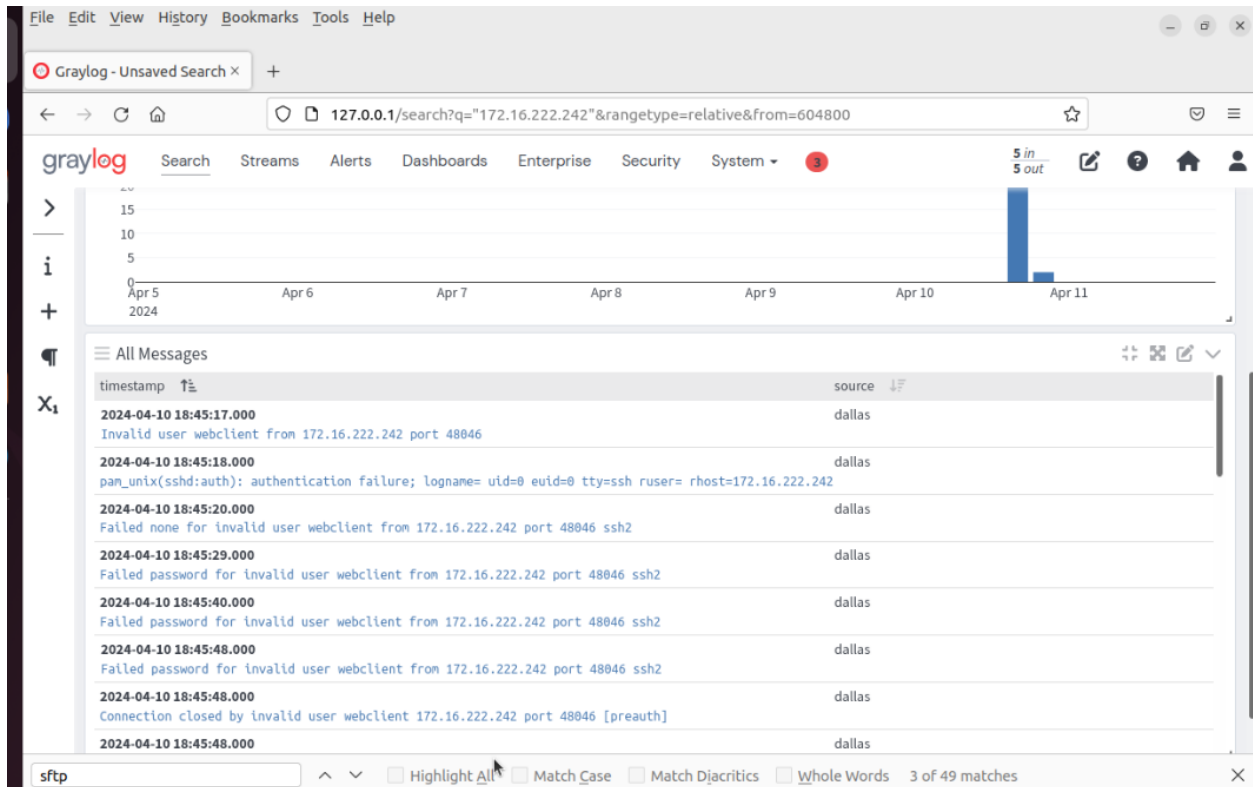
Overview:

On 4:11, at 3 P.M. Est, our team received a threatening email subjected from team Illinois, demanding us to pay a 2500 credit ransom or they would leak sensitive information about our team, including the usernames and passwords of all our users, and our offense report targeted towards team Florida. The email had matched the correct email address of the corresponding team, and we later got confirmation from an Illinois representative that they were the source of the attack. The following document covers the incident as a whole and how our team responded.

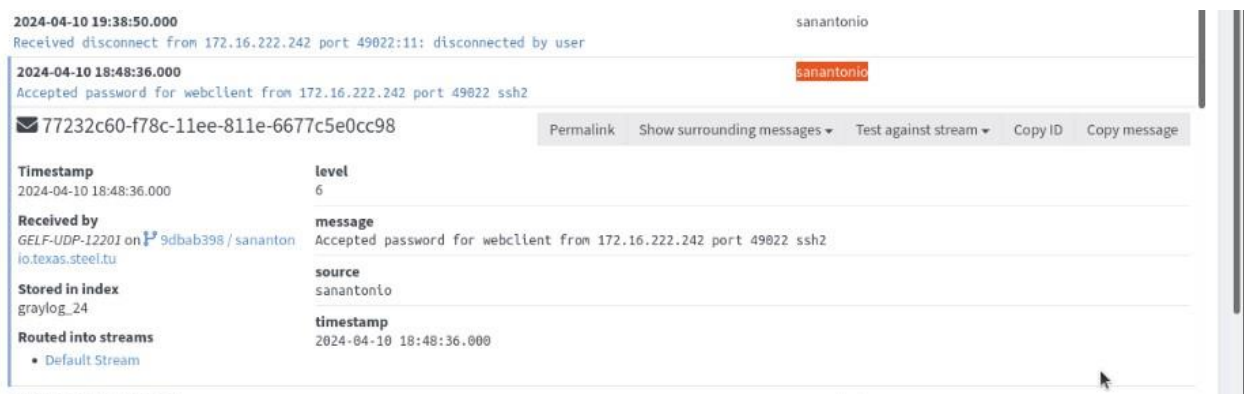


Initial Access:

On 2024-04-10, it was discovered that a suspicious IP had been attempting to log into our Dallas (Samba File Share) machine using an account we previously disabled, discovered to be a persistence method used by Red Team Kaiju (discussed in previous report).



The infected user was found again on our Graylog System, which allowed this suspicious IP access to our San Antonio (graylog) machine.



Privilege Escalation:

As mentioned in the previous incident response and offense report, red team likes to give this account administrative privileges for persistence later, allowing any user who compromises this account immediate administrative privileges, allowing them to bypass this step.

Exfiltration and Lateral Movement:

Using a persistence method we had installed from a previous attack; we were able to find their offense report and discover their plan for moving lateral. A previous attack from the red team discovered on their system abused a vulnerability that allows the passwords gathered from PAM authentication be placed inside a plaintext file. Abusing this allowed them access to our mining prefix passwords, allowing them to SSH into all Mining domain accounts. The following screenshot shows an excerpt from their report:

```
#!/bin/sh
```

```
echo "$(date) - $PAM_USER:$(cat -)" >> /dev/shm/diag
```

We will run this script for a few minutes, this will allow enough time for Nagios to conduct a check and use an admin account to login in, giving us both the password but also the prefix for all passwords in the domain. We will then login as this admin account on the dallas.mining.texas.tu system and access the common share in the /srv/samba/CommonShare directory. Once we have gained access to their common share we will scp their operation plans and after action reports back to our machine for

The team then targeted our Dallas Samba Machine, where it was discovered through roots history file that they exfiltrated our CommonShare folder to their own system, giving them access to all our offense reports, incident responses, and episode reports.

Persistence:

No persistence was found throughout the attack. Users were checked for public keys layered in their authorized key files and checks for suspicious cron job files were made with nothing suspicious noted. After the episode, we plan to steal their after-episode report to discover what (if any) persistence was made.

Impact:

During the time of the attack, our team was more worried about the release of our users' passwords than the potential leak of our offense plan. Such a release would compromise all the users on our domains, and not knowing what domain passwords they managed to exfiltrate, potentially allow other teams (including red team) the ability to exfiltrate all data from any user at any time off our system. The leak of our password prefixes also meant that any exfiltration of our shadow file on that machine would allow an easier time for future password hashes to be cracked.

Incident Response:

Immediately after the attack was known, our team put full focus on discovering where the source of the attack came from and the protection of our compromised users. After discovering how team Illinois infiltrated our system, we went through and checked all systems to ensure the point of entry (and any other suspicious user accounts) were deleted off our system. During this time, we also tried to contact our CEO for their input on the situation but received no response during the two attempts at getting in contact. Due to the severity of this attack and understanding that paying the ransom would not guarantee the safety of our passwords (they could still be leaked), the team decided to not pay the ransom and put all work into incident response to ensure the impact will be minimized. By the time team Illinois had leaked our data to a public Pastebin, passwords for all users had been changed.

After the leak, it was discovered that team Illinois had only compromised our auto and mining domain passwords. Moving forward, these systems will be heavily monitored for any suspicious IP's that attempt to login to the system.