Project: LetsDefend, Brute Force Attack

Clay Jones

Objective:

A SIEM alert was received describing a brute force attack on an endpoint device. Trace back the artifacts from the log management, treat intel, and the endpoint security manager. Contain the endpoint device if affected.

SIEM Alert:

EventID: 234

Event Time : Mar, 07, 2024, 11:44 AM

Rule: SOC176 - RDP Brute Force Detected

Level:Security AnaSource IP Address:218.92.0.56Destination IP Address:172.16.17.148Destination Hostname:MatthewProtocol:RDPFirewall Action:Allowed

Alert Trigger Reason: Login failure from a single source with different non existing accounts

Show Hint of

Log Discoveries:



After looking through the log manager, it was shown that multiple attempts were made to brute force into Matthew's account from port 3389. Eventually, the attacker was successfully able to log in after enough attempts.

Host Contained:







Shown from the endpoint security manager, once the attacker gained access, they ran commands such as "whoami", to confirm they were in, and "net localgroup administrators", to add, create, or delete a local user group. After seeing such, this host was put in containment and the attacker's IP was blacklisted and added to the threat intel feed.

Lessons Learned:

To prevent this from happening again, I would strongly suggest:

- Multi Factor Authentication
 - Strong password policy
 - Account lockout
 - CAPTCHA Challenges
- Implement stronger hashing algorithm
 - IP Blacklist