Muhammad Izham Bin Norhamadi 1303202-0039 1200 TO TEODS Question Log events on the system 2) Managing User authorization to assets retention and translation of security protocoi data into relevant risk management information. 1) Align business and I strategies 2) Increase business and IT agility 3) Establish and refine fature architecture vision 4) Govern technology decisions and direction 5) To protect an organization's IT operations and assets against internal and external threats C. 1) EEM - Eterprise Event Management Provdes registration to the event in a printe access · and authentication through a gatemay 2) SIM - Security Information Management Fecilitating the collection, retention and translation at security protocol data into relevant 1150 management information 3) SEM - Security Event Management

Real time monitoring and event management to support IT security operations STEM - Security Into Event Maragement
A set of tools that combine SIM and

d. D. Smartphone as user authentication - members of an organization may required to install an app to authenticate before being allowed to use organizations assets.

- 2) Employee bodge An RFID station will detect and son for the chip on employee's badge before permitting eptry through electronic door.
- e. 1) Solarwinds Kiwi Systog Server receives systog messages and SNMP traps from network devices and Linux hosts.
 - 2) PRTG capture and monitor systeg messages using centralized Systog Receiver Sensor
 - 3) Logstash opens a TCP port and listen for incoming connections, looking for syslog data

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Question 2

- a. 1) Syslag content
- 2) Syslog application
 - 3) Syslog transport
- b. 11) Without a Standard format systog can be hard to make use ot 2) Syslog employs User Data Protocol (UDA) to transport information, this means log messages could be let if there is a network congestion.
 - 3) Systog does not include any authentication processes to prevent a machine from impersonating another.
 - 4) Classic syslog traditionally is not useful to hardle early boot or late shutdown system logging.

Systog (system logging protocol) is a standard protocol used to send log or event message to a syslog server to collect various device 1095 from différent machines tor monitoring and rurlew. Syslog is helpful in various ways such as identifying critical network issues and reduce downtime of servers and other devices in your infrastructure.

d. 1) Define scope and boundaries of ISMS 2) Identify security risks by identifying the asset involved and threats to those assets.

e. The flow of the logs are more predictable and controlled, this help to ensure the most time-sentitive security data is relied and processed.

Question 3

- a. 1) SIMATIC WINCE is a SCADA and Human-Machine Interface (HMI) system From Siemens. 2) ABB Ability Network Manager SCADA is a real-time platform to securely and efficiently manage all remotely controlled operations across energy generation, transmission and Listribution systems 3) Experion SCADA is an intuitive and scalable solution is the heart of Honeywell's SCADA system.
- MTU initiates communication with remote units and interfaces with the DAS and the HMI white RTV is a small computer that will write its data to memory and send it the controller

Muhanmad Izham Bin Norhamadi 13032020030 1000005000 c. We can use software attestation to: 1- Check the integrity of program memory 2- Detect modification through malicious code Gain insight of ow sensor behavior Observe presence of any malicious code in the system AND PRINTED STREET AND AND AND PARTS AND AND AND d. 1) (ommunicate between PLCs, valves and switches 2) Ideal protocol for RTV applications where wireless communication is required. Question 4 a. 1) Prevents computer attempt to brute force authentication 2) Minimize and limit hocker's dictionary attack 3) Prevents bots from spamming submissions. 4) Deters bots from accessing while allowing humans to access b. One of the methods is to generate a password using OTP along with a secret key that has already been shored with the user, which comes with an application installed on the user's mobile device and does not require any internet Support C. 1) Physical obstruction such as walls, doors and gates 2) Sensors and monitoring tools such as CCTV and face detection to monitor all entry to building 3) Security Surveillance such as quards and quard dogs to secure the perimiter amound building 4) Automatic authentication such as electric doors using

cord

1) The employee credentials may be compromised and another user is using it for unauthorized access. 2) The employee may have left a workstation without properly logging out of session By analysing logs generated by network devices and systems we can determine and monitor cyber attacks that have occurred as we have an insight into the inner workings of the system and its behavior.

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