Scenario

You’re the first cybersecurity professional hired by a growing business.

Recently, a deposit was made from the business to an unknown bank account. The finance manager says they didn’t make a mistake. Fortunately, they were able to stop the payment. The owner has asked you to investigate what happened to prevent any future incidents.

To do this, you’ll need to do some accounting on the incident to better understand what happened. First, you will review the access log of the incident. Next, you will take notes that can help you identify a possible threat actor. Then, you will spot issues with the access controls that were exploited by the user. Finally, you will recommend mitigations that can improve the business' access controls and reduce the likelihood that this incident reoccurs.

Logs

Name	Role	Email	IP address	Status	Authorization	Last access	Start date	End date
Lisa Lawrence	Office manager	l.lawrence@erems.net	118.119.20.150	Full-time	Admin	12:27:19 pm (0 minutes ago)	10/1/2019	N/A
Jesse Pena	Graphic designer	j.pena@erems.net	186.125.232.66	Part-time	Admin	4:55:05 pm (1 day ago)	11/16/2020	N/A
Catherine Martin	Sales associate	catherine_M@erems.net	247.168.184.57	Full-time	Admin	12:17:34 am (10 minutes ago)	10/1/2019	N/A
Jyoti Patil	Account manager	j.patil@erems.net	159.250.146.63	Full-time	Admin	10:03:08 am (2 hours ago)	10/1/2019	N/A
Joanne Phelps	Sales associate	j_phelps123@erems.net	249.57.94.27	Seasonal	Admin	1:24:57 pm (2 years ago)	11/16/2020	1/31/2020
Ariel Olson	Owner	a.olson@erems.net	19.7.235.151	Full-time	Admin	12:24:41 pm (4 minutes ago)	8/1/2019	N/A
Robert Taylor Jr.	Legal attorney	rt.jr@erems.net	152.207.255.255	Contractor	Admin	8:29:57 am (5 days ago)	9/4/2019	12/27/2019
Amanda Pearson	Manufacturer	amandap987@erems.net	101.225.113.171	Contractor	Admin	6:24:19 pm (3 months ago)	8/5/2019	N/A
George Harris	Security analyst	georgeharris@erems.net	70.188.129.105	Full-time	Admin	05:05:22 pm (1 day ago)	1/24/2022	N/A
Lei Chu	Marketing	lei.chu@erems.net	53.49.27.117	Part-time	Admin	3:05:00 pm (2 days ago)	11/16/2020	1/31/2020

Event

Type	Source	ID	Date	Time	User	Computer	IP	Payroll Event Added
Information	AdsmEmployeeService	1227	10/03/2023	8:29:57 AM	Legal\Administrator	Up2-NoGud	152.207.255.255	FAUX_BANK

Access controls worksheet

	Note(s)	**Issue(s)**	**Recommendation(s)**
Authorization /authentication	**Objective:** List 1-2 pieces of information that can help identify the threat: **Who caused this incident?** ● Based on the IP address the user was Robert Taylor Jr. **When did it occur?** ● 10/03/2023 8:29:57 AM **What device was used?** ● Up2-NoGud with IP 152.207.255.255	**Objective:** Based on your notes, list 1-2 authorization issues: **What level of access did the user have?** ● Robert Taylor Jr. had admin access **Should their account be active?** ● No as their end date was 12/27/2019	**Objective:** Make at least 1 recommendation that could prevent this kind of incident: **Which technical, operational, or managerial controls could help?** ● Used account deletion after a period of time ● Principle of least privilege as contractors likely don't need admin access ● MFA