

# HERA Threat Intelligence Report

## Human Engineered Research Analysis – Internal Threat Assessment

Generated on: December 11, 2025

This report is generated from the HTI dataset containing **10** employees stored in `./data/hti/employees_hti.xlsx`.

### 1. Executive Summary

The Human Threat Index (HTI) dataset indicates a moderate to high risk posture among some employees, with an average HTI score of 59.8 out of 100. A subset of users has exhibited high-risk behavior, including late-night logins, failed logins, and suspicious email activity.

### 2. Key Findings

- A total of 5 employees have a High risk level (HTI scores above 60), indicating potential insider threats.
- The highest HTI score recorded is 82, indicating severe risk factors such as high access levels and lack of security training.
- Some employees have exhibited late-night login activity, which may indicate suspicious behavior or unauthorized access attempts.
- Medium-risk users (HTI scores between 40-60) comprise the majority of the dataset, with a total of 5 employees.
- Security training completion is a significant factor in determining an employee's risk level, with some high-risk users lacking recent training.

### 3. Recommendations

To mitigate insider threats, we recommend implementing regular security training for all employees and monitoring login activity, especially late-night logins. Additionally, strengthening access controls and implementing more robust email filtering protocols may help prevent potential data breaches or unauthorized information sharing.

## 4. Full Human Threat Index (HTI) Dataset

	Explanation
30 days)', 'Failed logins recorded (5 in the past 30 days)', 'Security training not completed', 'Recent email activity to an external address (tatemegan@nunez-jones.com) with a potentially sensitive subject line', 'Moderate login frequency (36 logins past 30d).', 'They have also shown some suspicious attachment activity (2 attachments past 30d) and have recently sent an email to an external recipient.', 'However, her security training was completed on time, and she does not have any privileged accounts.', 'Risk factors: As a Process Manager, she has access level 3, which increases the risk of insider threats. Additionally, she hasn't completed security training, leaving her vulnerable to phishing attacks.', 'The employee has sent an email to an external recipient (bryantstephanie@jackson.net) with a subject line indicating potential information sharing or compromise.', 'The employee's average daily email count is high (97), with an external email ratio of 14%, indicating potential external communication that may not be work-related.', 'Recent email activity shows a high volume of external communication over the past 30 days, which may indicate increased activity or unauthorized access.', 'Although they have completed security training, their recent email exchange with an external recipient suggests potential insider threat activity.', 'Average daily email count is slightly higher than usual (27 vs. 20).', 'Employee has not received security training in the past 30 days, indicating potential information sharing or compromise.', 'Suspicious attachments were detected in the past 30 days, raising concerns about malware transmission.', 'No security training was completed in the past 30 days, indicating elevated privileges.', 'They have not completed security training, which is a risk factor.', 'There are no behavioral anomalies in their login patterns or file transfers.', 'Their performance is consistently high, indicating a high level of skill and knowledge.', 'The employee has not completed security training, which is a risk factor.', 'There are no behavioral anomalies in their login patterns or file transfers.', 'Their performance is consistently high, indicating a high level of skill and knowledge.'	

*Note: This table contains the full HTI dataset exactly as stored in ./data/hti/employees\_hti.xlsx. No records were modified during report generation.*

## 5. Visualization Charts

Chart 1: *hti\_distribution.png*

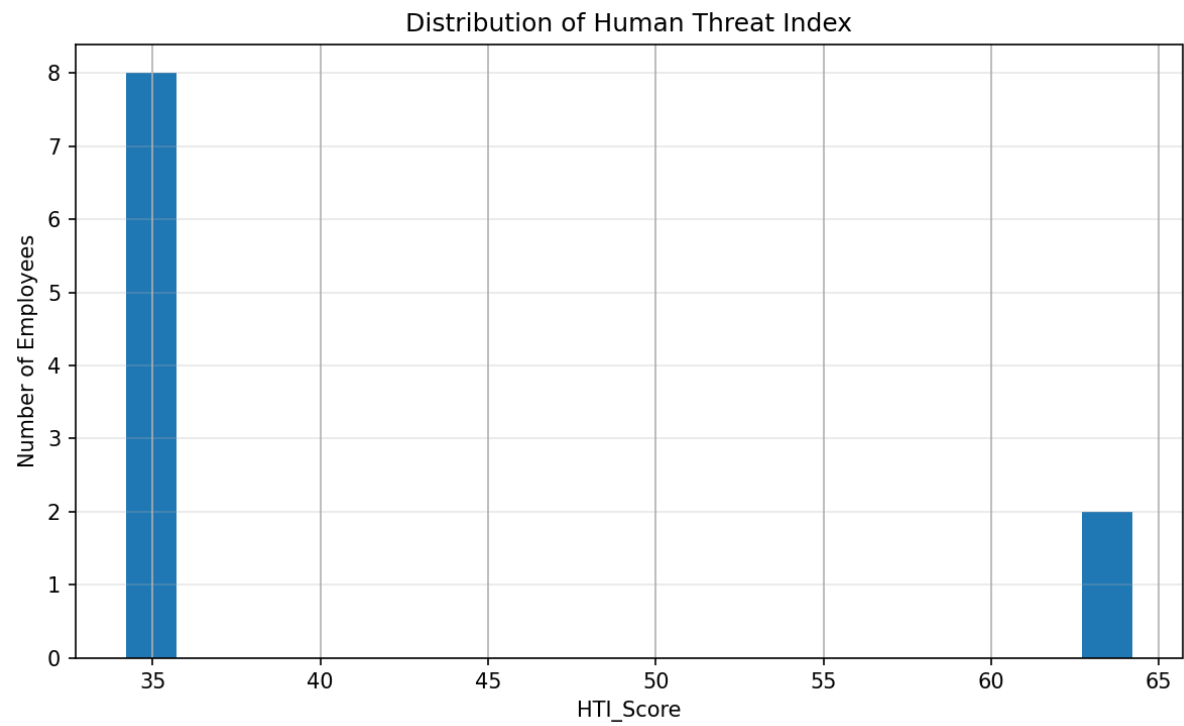
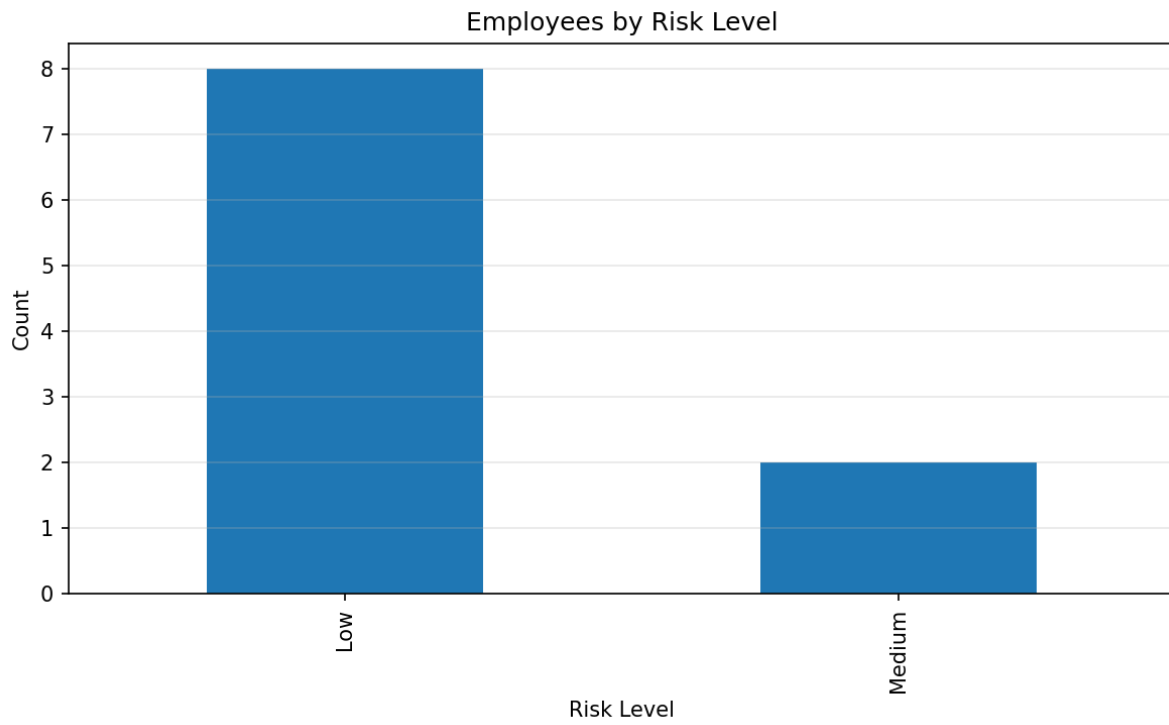


Chart 2: *risk\_levels.png*



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