Ch.6 summary By @MHazazi

The Employee Lifecycle

- Represents stages in the employee's career
- Lifecycle stages:

Recruitment, Onboarding, User provisioning, Orientation, Career development, Termination

What Does Recruitment Have to Do with Security?

- Risks and rewards of posting online employment ads:
 - A company can reach a wider audience
 - A company can publish an ad that gives too much information:
 - About the network infrastructure as result hacker will footprint internal network easily
 - About the company itself, inviting social engineering attacks

Job Postings

Job descriptions are supposed to:

- Convey mission of organization
- Describe position generally
- Outline responsibilities attached to position
- Outline the company's commitment to security via non-disclosure agreement

Job descriptions are NOT supposed to:

- Include information about specific systems, software versions, security configurations
- If the above information is deemed necessary, two versions of the position can be created.
 The second, more detailed version should be posted internally and shared with candidates

Candidate Application Data

- Companies are responsible for protecting the data and privacy of the job seeker
- Non-public personal information (NPPI) should not be collected if possible

The Interview

- > interviewer should be concerned about revealing too much about company during the interview
- Job candidates should never gain access to secured areas
- A job interview is a perfect foot-printing opportunity for hackers and social engineers

Screening Prospective Employees

- An organization should protect itself by running extensive background checks about employees
- Some higher level positions may require even in-depth checks
- Many U.S. government jobs require prospective employees have the requisite clearance level

Types of Background Checks

- Basic background check level to which all employees are subjected
- in-depth checks for specific roles
- only information relevant to the actual work they perform is required.
- Company should seek consent from employees before launching a background check
- Educational records fall under FERPA. Schools must first have written authorization
- Motor vehicle records fall under DPPA, not allowed to disclose information
- FTC allows the use of credit reports prior to hiring employees
- Bankruptcies may not be used as the SOLE reason to not hire someone
- Criminal history: The use of this sort of information varies from state to state
- Worker's compensation records: public records

What Happens in the Onboarding Phase?

- The new hire is added to the organization's payroll and benefit systems
- New employees must provide
 - Proof of identity
 - Work authorization
 - Tax identification
- Two forms that must be completed
 - Form I-9
 - Form W-4

What Is User Provisioning?

- The process of:
 - Creating user accounts and group memberships
 - Providing company identification
 - Assigning access rights and permissions
 - Assigning access devices such as tokens and/or smartcards
- The user should be provided with and acknowledge the terms and conditions of the Acceptable Use Agreement before being granted access

What Should an Employee Learn During Orientation?

- > His responsibilities
- > Information handling standards and privacy protocols
- > Ask questions

The Importance of Employee Agreements

- Confidentiality or non-disclosure agreements
 - Agreement between employees and organization
 - Defines what information may not be disclosed by employees
 - Goal: To protect sensitive information
 - Especially important in these situations:
 - When an employee is terminated or leaves
 - When a third-party contractor was employed
- Acceptable Use Agreement
 - A policy contract between the company and information systems user
- Components of an Acceptable Use Agreement
 - Introduction
 - Data classifications
 - Applicable policy statement
 - Handling standards
 - Contacts
 - Sanctions for violations
 - Acknowledgment

The Importance of Security Education and Training

> Training employees

According to NIST: "Federal agencies [...] cannot protect [...] information [...] without ensuring that all people involved [...]:

- Understand their role and responsibilities related to the organization's mission
- Understand the organization's IT security policy, procedures and practices
- Have at least adequate knowledge of the various management, operational and technical controls required and available to protect the IT resources for which they are responsible"
- Hackers adapt: If it is easier to use social engineering i.e., targeting users rather than hack a network device, that is the road they will take
- Only securing network devices and neglecting to train users on information security topics is ignoring half of the threats against the company

What Is the SETA Model?

SETA = Security, Education, Training, Awareness

- Awareness is not training: focusing the attention of employees on security topics to change their behavior
- Security awareness campaigns should be scheduled regularly
- Security training "seeks to teach skills" (per NIST)
- Security training should NOT be dispensed only to the technical staff but to all employees