



# **AIX Security Assessment**

## Overview

The AIX Security Assessment is designed to provide a comprehensive assessment of your AIX infrastructure. This service assesses over 350 cybersecurity best practices.

The assessment consists of 2 components:

- 1. Policy Assessment (optional)
- 2. Host Assessment

# **Policy Assessment Details**

- Based on the subset of CIS v8 safeguards directly related to AIX.
- Over 50 CIS v8 safeguards assessed are security policies that can be implemented to mitigate security risk in AIX infrastructures. For example: Does your organization require multi-factor authentication for all administrative access? Does your organization encrypt sensitive data at rest? Do you disable dormant accounts after a period of 45 days of inactivity?
- Consultant provides a 53-question policy questionnaire to client
- Client completes and returns questionnaire to consultant
- · Consultant incorporates results into final report
- Time requirement: at least 15 minutes

# **Policy Assessment Use Cases**

- AIX manager wanting to verify the organization is implementing globally accepted security best practices for managing AIX environments
- AIX manager wanting to identify more security tooling to mitigate security risk

### **Host Assessment Details**

- Based on CIS IBM AIX 7.2 Benchmark v1.0.0 09-30-2022
- Over 300 CIS AIX Benchmark settings assessed are security hardening settings to be implemented on your AIX instance. For example, verify local AIX configuration uses the SHA-512 password-hashing algorithm for the storing of local passwords
- One or more AIX or VIOS hosts can be assessed
- Any supported level of AIX or VIOS can be assessed
- Data collection script executed on assessment host
- **Time requirement:** 2.5 hours

### Host Assessment Use Cases

- An AIX Build team that would like to analyze their master NIM image to identify more security hardening settings to add to their NIM build
- An organization that would like to verify a specific AIX instance running critical business applications is secure
- An organization that would like to compare how security settings might differ between virtual machines built in different environments, for example, comparing a PROD host versus a QA or DEV host



# **Engagement Process**

- Consultant arranges prep call to discuss data collection process and to schedule Webex to review assessment results
- Client uploads encrypted tar file and questionnaire to BOX
- · Consultant analyzes data and creates deliverables
- Consultant reviews results with client on Webex

### **Deliverables**

- 1. AIX Policy Heat Map this spreadsheet provides a one page view of the results of the Policy Assessment.
- 2. AIX Security Policy Assessment this PDF details the results of the Policy Questionnaire completed by the client. Over 50 policy assessment results are detailed in this document. The document provides a hyperlinked Table of Contents to quickly access any of the more than 50 security measures assessed
- 3. AIX Host Heat Map (see Fig. 1) the spreadsheet provides a one page view of the results of the host assessment
- 4. AIX Security Host Assessment (see Fig. 2) this PDF details the results of the host assessment. Over 300 security assessment results are detailed in this document. The document provides a hyperlinked Table of Contents to quickly access any of the more than 300 security controls assessed
- 5. Executive Summary a short summary of the results of the policy and host assessments designed to be presented to executive management

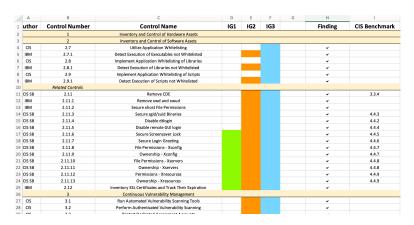


Fig. 1 - An excel spread sheet will be provided that will indicate the result of each security control being assessed.

#### 5.14.6. Secure logintimeout

Asset	Security	Control Description – (SB Level 1)	Implen	entation G	roups
Type	Function		1	2	3
Users	Protect	Limit the time a password must be entered to 30 seconds			

#### Further Information:

Defines the number of seconds during which the password must be typed at login.

In setting the logintimeout attribute, a password must be entered within a specified time period.

Finding X	
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Is logintimeout configured securely?

consultant comments: The default value of zero was found

#### Remediation Details:

To configure this setting, execute the following command:

# chsec -f /etc/security/login.cfg -s usw -a logintimeout=30

Fig. 2 - "Secure Logintimeout" is an example of one of the settings that gets assessed. For each assessed setting, a description, finding and remediation step is provided.