NICE Challenge Project

Challenge Submission Report
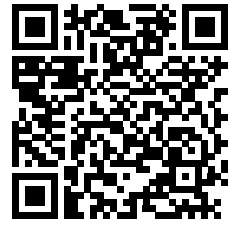
Submission ID: 65085

Timestamp: 3/1/2022 4:33 AM UTC

Name: Winston Lee

Challenge ID: 150

Challenge Title: Strengthening System Security [NG]

Scenario

We need you to implement public key authentication for a few boxes in our environment. I need Security-Desk and Workstation-Desk setup to use public key authentication for ssh connections into the Prod-Web server. Once you have that taken care of we need you to install a one time password package called OTPW and set it up on the Backup server.

Reviewed By: Solomon Zewde at Houston Community College

Duration

1:55

Full Check Pass
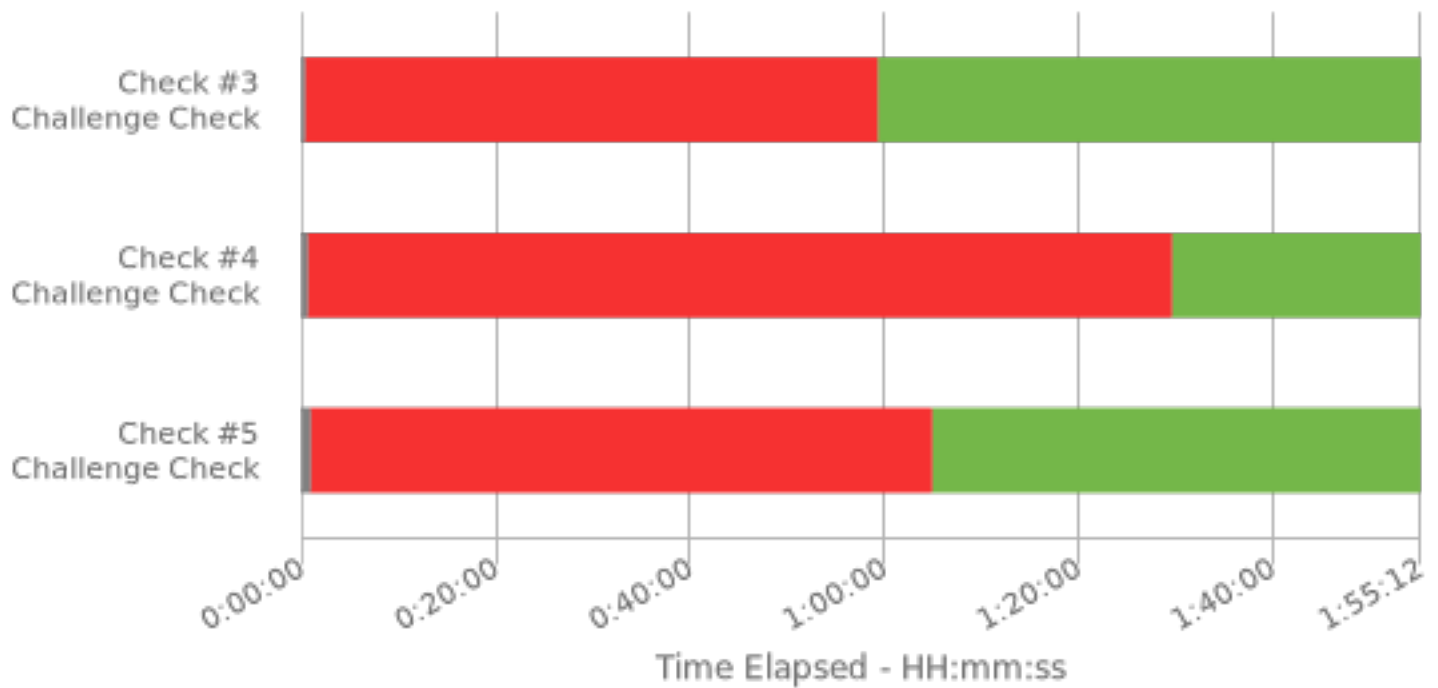
Full: 5/5

Final Check Details

- ✅ Check #1: Security-Desk Connection Successful
- ✅ Check #2: Workstation Connection Established
- ✅ Check #3: OTPW PAM module Check
- ✅ Check #4: OTPW Password List Generated
- ✅ Check #5: OTPW SSH Functionality Check

Curator Feedback

Successful troubleshooting with good documentation.

Challenge Attempt Successful: ✔

Time Elapsed - HH:mm:ss
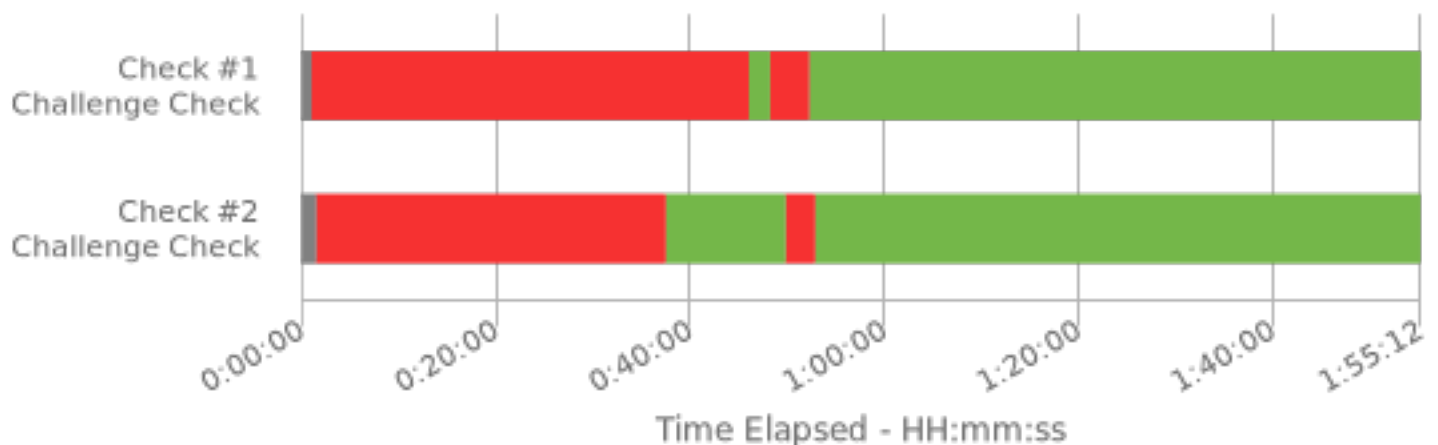
Specialty Area

Systems Analysis

Work Role

Systems Security Analyst

NICE Framework Task

T0489 Implement system security measures in accordance with established procedures to ensure confidentiality, integrity, availability, authentication, and non-repudiation.

Knowledge, Skills, and Abilities

• K0004 Knowledge of cybersecurity and privacy principles.

• K0018 Knowledge of encryption algorithms

• K0036 Knowledge of human-computer interaction principles.

• K0044 Knowledge of cybersecurity and privacy principles and organizational requirements (relevant to confidentiality, integrity, availability, authentication, non-repudiation).

• K0056 Knowledge of network access, identity, and access management (e.g., public key infrastructure, Oauth, OpenID, SAML, SPML).

• K0060 Knowledge of operating systems.

• K0275 Knowledge of configuration management techniques.

• K0276 Knowledge of security management.

• K0297 Knowledge of countermeasure design for identified security risks.

Centers of Academic Excellence Knowledge Units

• Cybersecurity Foundations

• Cybersecurity Principles

• Cyber Threats

• IT Systems Components

- Operating Systems Concepts
- Vulnerability Analysis