GenCyber 2024 Pre-Camp Engagement

1: Review the NICE Framework Work Roles and KSAs

2: Review RPi Videos and Documentation

3: Complete the GenCyber Survey

NICE Framework Work Roles and KSAs

- Created by NIST (National Institute of Standards and Technology).
- Uses a common language to define and organize different jobs (Work Roles) in cybersecurity.
- Describes what knowledge (K) and skills (S) and abilities (A) are needed for these roles.
- Helps make sure that everyone in cybersecurity can talk to each other and understand each other.
- Important for training people and making sure they are ready to do cyber security jobs well.
- NICE Framework Work Roles Weblink (with all work roles to explore)

Key Work Roles

Click each work role title to find out more:

Exploitation Analyst: This role involves finding gaps in information gathering and access, which can be closed using cyber collection/preparation. It uses approved tools and techniques to enter specific computer networks.

Secure Software Assessor: This role involves checking the security of new or existing computer programs and software to find any problems and give clear advice on what to do next.

Cyber Defense Analyst: This role involves looking at data from different cybersecurity tools to reduce risks.

Systems Administrator: This role involves creating and managing parts of a computer system while following rules about security. It includes installing and updating hardware and software, managing user accounts, backing up and recovering information, and making sure security measures are in place.

Cyber Defense Forensics Analyst: This role involves studying digital clues from computer security problems to find helpful information that can fix weaknesses in systems and networks.

AI/ML Specialist: This role involves creating and improving applications and tools that use artificial intelligence. Your goal is to make sure these programs help achieve important goals effectively.

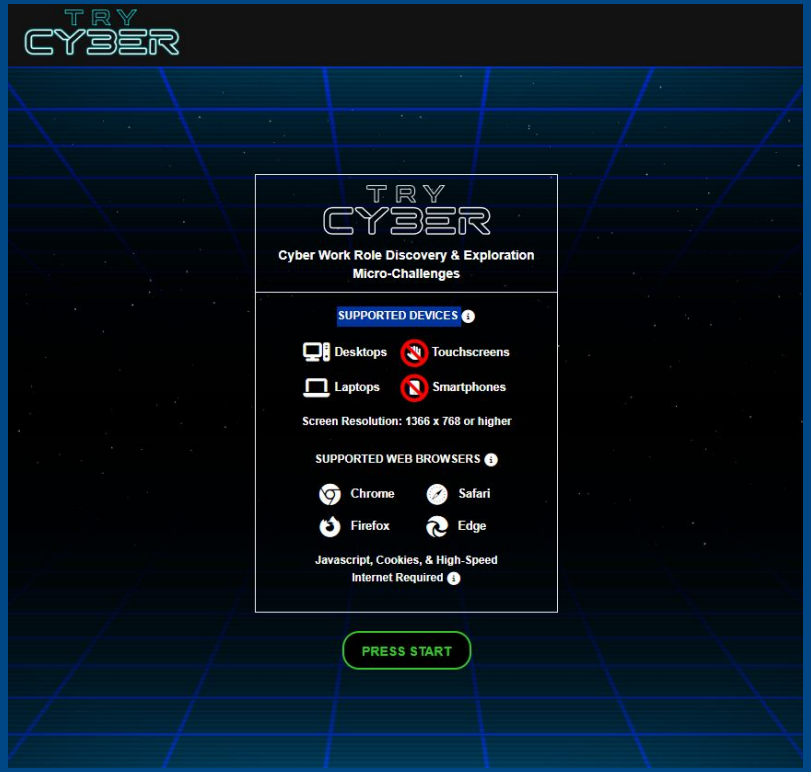
TRY CYBER

TRY CYBER is a guided simulator of work roles with mini-challenges to simulate real tasks for the work roles.

TRY CYBER Link

For extra guidance, check out the next slides:

Slides 5, 6

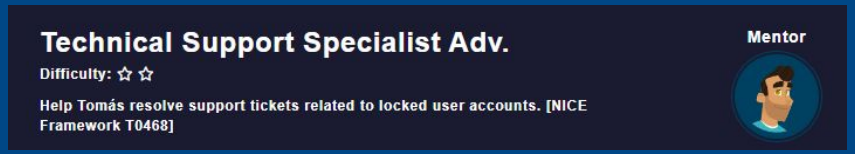


TRY CYBER Challenges for Work Roles

Click the corresponding pictures on the site to do a challenge for each work role

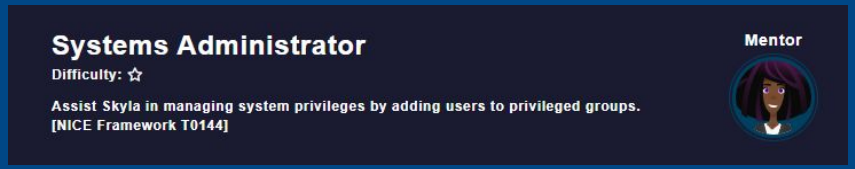
Exploitation Analyst:

Secure Software Assessor:

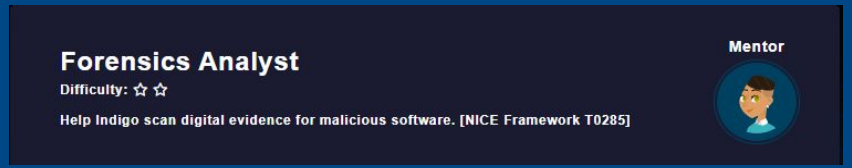


Cyber Defense Analyst:

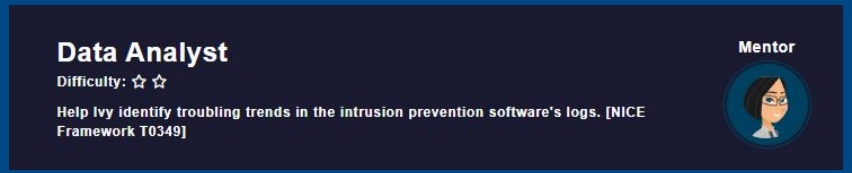
Systems Administrator:



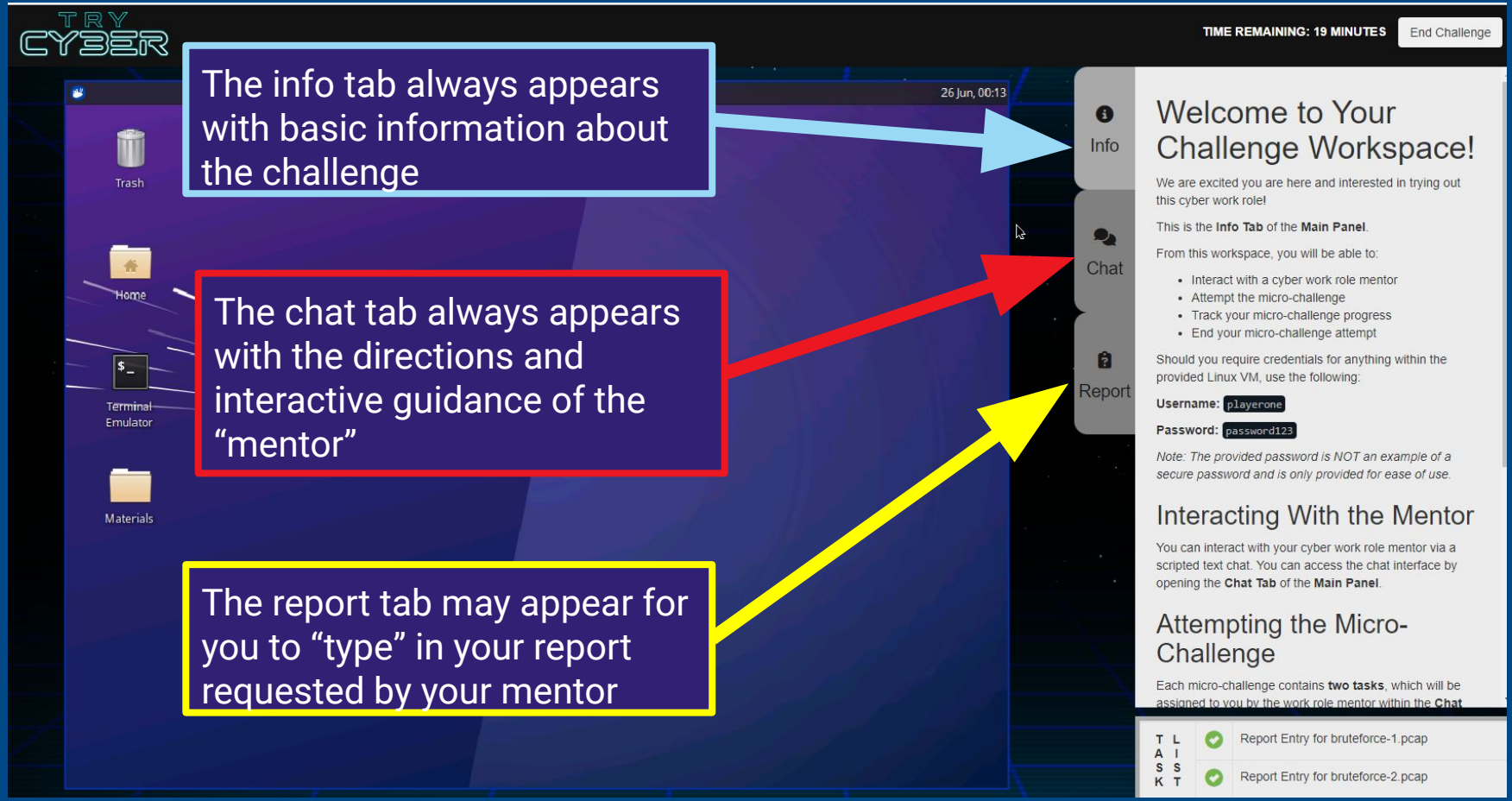
Cyber Defense Forensics Analyst:



AI/ML Specialist:

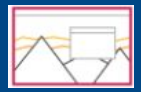
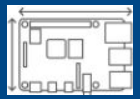


TRY CYBER Navigation



Raspberry Pi Videos and Documentation

Click each link to review the following documentation:

1. Getting Started 
2. Raspberry Pi OS 
3. Raspberry Hardware 

Here's the link if you want to explore more:

Raspberry Pi (RPi) Website

GenCyber Survey

Complete the **Google Form** to show off what you learned!