

Cyber Security and Digital
Forensics Internship

ASSIGNMENT 18
DEFENDING CLOUD
FUNDAMENTALS

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Drive Link -

<https://drive.google.com/drive/folders/1WCK00ki1F3lFPT07y5tdSmeKcrDeWjvs?usp=sharing>

TryHackMe Room -1

The screenshot shows the completion page for the 'Jupyter 101' room on TryHackMe. At the top, a browser window displays the URL 'tryhackme.com/room/jupyter101'. The main content area features a large 'jupyter 101' logo with a green checkmark. Below the logo, a congratulatory message reads 'Congratulations on completing Jupyter 101!!!'. A summary section displays five metrics: 'Points earned' (120), 'Completed tasks' (8), 'Room type' (Walkthrough), 'Difficulty' (Easy), and 'Streak' (1). A message states 'This room counted toward joining the league'. At the bottom, there are buttons for 'Leave Feedback' and 'Continue'. The Windows taskbar at the bottom shows the time as 08:16 PM on 16-06-2025.

tryhackme.com/room/jupyter101

jupyter 101

Congratulations on completing Jupyter 101!!!

Points earned 120

Completed tasks 8

Room type Walkthrough

Difficulty Easy

Streak 1

This room counted toward joining the league

Leave Feedback

Continue

The screenshot shows the content page for the 'Jupyter 101' room. The header includes the 'jupyter 101' logo, a description 'A friendly introduction into using the Jupyter Notebook environment. Learn to process and visualise data!', and a difficulty level of 'Easy' with a 45-minute estimate. Below the header, there are buttons for 'Share your achievement', 'Start AttackBox', 'Help', 'Save Room', and 'Options'. A green bar indicates 'Room completed (100%)'. The main content area lists eight tasks, each with a green checkmark and a dropdown arrow: 'Task 1: Preface', 'Task 2: What is Jupyter?', 'Task 3: Deploying Instance & Logging In', 'Task 4: Let's Learn More About Jupyter', 'Task 5: Understanding how Jupyter Notebooks Run', 'Task 6: Interacting With the Filesystem!', 'Task 7: Handling Data With Pandas', and 'Task 8: Visualising Data With Matplotlib'. The Windows taskbar at the bottom shows the time as 08:16 PM on 16-06-2025.

tryhackme.com/room/jupyter101

jupyter 101

A friendly introduction into using the Jupyter Notebook environment. Learn to process and visualise data!

Easy 45 min

Share your achievement

Start AttackBox

Help

Save Room

253

Options

Room completed (100%)

Task 1 Preface

Task 2 What is Jupyter?

Task 3 Deploying Instance & Logging In

Task 4 Let's Learn More About Jupyter

Task 5 Understanding how Jupyter Notebooks Run

Task 6 Interacting With the Filesystem!

Task 7 Handling Data With Pandas

Task 8 Visualising Data With Matplotlib

TryHackMe Room – 2

The screenshot shows the completion page for the 'Attacking ICS Plant #1' room on TryHackMe. At the top, a green notification bubble says 'Woop woop! Your answer is correct'. Below this is a large green checkmark icon. The main heading reads 'Congratulations on completing Attacking ICS Plant #1!!!'. A summary row displays the following statistics: Points earned (136), Completed tasks (5), Room type (Walkthrough), Difficulty (Easy), and Streak (1). Below the summary, a message states 'You've unlocked League access! Ready to compete?'. At the bottom, there are buttons for 'Leave Feedback' and 'Continue'.

tryhackme.com/room/attackingics1

Woop woop! Your answer is correct

Congratulations on completing Attacking ICS Plant #1!!!

Points earned	Completed tasks	Room type	Difficulty	Streak
136	5	Walkthrough	Easy	1

You've unlocked League access! Ready to compete?

Leave Feedback Continue

The screenshot shows the details page for the 'Attacking ICS Plant #1' room. The header includes navigation links like 'Dashboard', 'Learn', 'Compete', and 'Other'. The room title 'Attacking ICS Plant #1' is prominently displayed, followed by a subtitle 'Learn how to discover and attack ICS plants using modbus protocol (Modicon / Schneider Electric)'. The difficulty is marked as 'Easy' with a clock icon indicating a 45-minute duration. A progress bar at the bottom of the header shows 'Room completed (100%)'. Below the header, a list of five tasks is shown, all marked as completed with green checkmarks: Task 1 (Introduction to OT/ICS), Task 2 (Introduction to Modbus protocol), Task 3 (Discovery), Task 4 (Play to learn), and Task 5 (Attack). The right side of the page features a decorative graphic with binary code.

TryHackMe

Dashboard Learn Compete Other

Access Machines Go Premium 1

Learn > Attacking ICS Plant #1

Attacking ICS Plant #1

Learn how to discover and attack ICS plants using modbus protocol (Modicon / Schneider Electric).

Easy 45 min

Share your achievement Start AttackBox Help Save Room 320 Options


Room completed (100%)

- Task 1 Introduction to OT/ICS
- Task 2 Introduction to Modbus protocol
- Task 3 Discovery
- Task 4 Play to learn
- Task 5 Attack

TryHackMe Room – 3

tryhackme.com/room/flask

Woop woop! Your answer is correct



Congratulations on completing Introduction to Flask!!! 🎉

Points earned	Completed tasks	Room type	Difficulty	Streak
48	7	Walkthrough	Easy	1

[Leave Feedback](#) [Continue](#)

tryhackme.com/room/flask

Introduction to Flask

How it works and how can I exploit it?

Easy 15 min

[Share your achievement](#) [Start AttackBox](#) [Help](#) [Save Room](#) [303](#) [Options](#)

Room completed (100%)

- Task 1 Introduction
- Task 2 Installation and Deployment basics
- Task 3 Basic syntax and routing
- Task 4 HTTP Methods and Template Rendering
- Task 5 File Upload
- Task 6 Flask Injection
- Task 7 References and Sources

TryHackMe Room – 4

The screenshot shows the TryHackMe website interface. The browser's address bar displays `tryhackme.com/room/openvpn`. The main content area features a large circular logo with the word "OPEN" and a green checkmark. Below the logo, the text "Congratulations on completing OpenVPN!!!" is displayed. A row of five statistics boxes is shown: "Points earned" (0), "Completed tasks" (6), "Room type" (Walkthrough), "Difficulty" (Easy), and "Streak" (1). At the bottom of the main content area, there are two buttons: "Leave Feedback" and "Continue". The Windows taskbar at the bottom shows the time as 09:04 PM on 16-06-2025.

The screenshot shows the TryHackMe website interface for the OpenVPN room. The browser's address bar displays `tryhackme.com/room/openvpn`. The main content area features a large banner with the word "OPENVPN" and a green checkmark. Below the banner, the text "OpenVPN" is displayed, followed by "A guide to connecting to our network using OpenVPN." and "Easy 45 min". A row of buttons is shown: "Share your achievement", "Start AttackBox", "Help", "Save Room", "4730", and "Options". Below the buttons, a progress bar indicates "Room completed (100%)". A list of six tasks is shown, each with a green checkmark and a dropdown arrow:

- Task 1: Connecting to our network
- Task 2: Connecting with Windows
- Task 3: Connecting with MacOS
- Task 4: Connecting with Linux
- Task 5: Using TryHackMe without a VPN
- Task 6: Check you're connected

The Windows taskbar at the bottom shows the time as 09:04 PM on 16-06-2025.