

# Access Control Teacher Workout Instructions

## Introduction

The goal of the *Access Control* workout is for the student to obtain experience in protecting information from a cyber attack by configuring access control. This workout ties to the Federal guidelines on protecting access to controlled unclassified information and the domain of **access control**. At the end of this workout, the student should understand:

- How to review and verify access is set up for only authorized individuals
- How to find and remove permissions for anonymous or unauthenticated users
- The distinction between process accounts and user accounts

## Objective Scenario

Congratulations! You have just been hired as an IT contractor for a small business called Trojan Bricks who specialize in making exclusive harden clay for entertainment. I have attached the staff listing so you can quickly get yourself familiar with the employees.

### Staff at Trojan Bricks

**Executive staff - Overall responsibility for leading the company**

- a. Lola Wolfe is President and CEO
- b. Johnnie Lewis is the Executive Assistant

**Engineering - Design and Engineering for the Toy Brick line**

- a. Jon Brown is the Chief Operating Officer
- b. Jenny Mcdaniel is the Senior Engineer

**Accounting - Responsible for all financials within the company**

- a. Marcus Sherman is the CFO
- b. Kim Curry is an Accountant

**Marketing -**

- a. Harold Blair is Chief Marketing Officer

- b. Frankie Casey is the VP of Design

#### Human Resources

- a. Jim Turn is VP of Human Resources
- b. Chris Vargas is a Recruit

As you can see, everyone at Trojan Bricks has a special role. Your role is to discover and fix any security issues the company may face. Luckily for you, I already have several tasks for you to complete. Unfortunately for you, these tasks must be completed in 15 minutes when you log into the computer. There have been talks about many disgruntled employees and hostile management at Trojan Bricks who are trying to disrupt the company's business. To do so, it would appear that they are actively targeting any computers that load into the Trojan Bricks server. You'll have to remove their access before they attack.

The first task is taking care of the person you replaced. He called himself the *"most awesomeness awesome IT contractor ever to exist,"* and he made sure to let every one know that. The thing is, he was terrible at his job and had an unhealthy obsession with cats that hindered any work progress. When he got fired, he vowed to unleash the "Cats of Valhalla." Whatever that means, he still has access to the federal contracts folder under the username AwesomeITUser located at C:\Company Data\Federal Contracts. You need to remove his access to that folder before he unleashes anything.

Your second task involves the disgruntled employee, Harold Blair. Harold was known to be very vocal about his concerns for the new toy bricks. To promote their new toy, Harold initially set up a website that counts down the days until they release their toy brick to the world on June 22, 2025. You can see yourself by navigating to 10.1.1.2 in Google Chrome within the server or by clicking the shortcut on the desktop. Days after the website's launch, he quit working for Trojan Bricks and left a note.

***Dear Colleagues,***

***I have decided to cut my stay at Trojan Bricks short. After years of working for a company I saw great potential in, I have now realized that it was all a scam. When I learned that Trojan Bricks was to no longer produce engraved bricks for the graduating students of UA Little Rock and pursue something else, I thought it would be a pleasant change of pace. I was wrong. I was forced to market their new "toy" that is literally just an ordinary brick. I tried hard to keep working, but I no longer have the will to continue working for a***

***company that is scamming their customers. To anyone accessing the Trojan Bricks website, I have decided to tell the world the truth behind Trojan Bricks' s scam.***

***Yours Truly,***

***Harold Blair***

Before Harold defaces the site, you need to remove his access to the folder that hosts the website located at *C:\inetpub\wwwroot\TrojanBricks*.

The third task is preventing a hostile takeover from Lola Wolfe, the President and CEO of Trojan Bricks. As Trojan Bricks is no longer producing engraved bricks, she has decided that she will restructure the company to her standards without approval from the board. She was last seen at the company writing a script that will allow her to take over any Trojan Bricks computer. You need to remove her access to the batch folder located at *C:\Batch* before she replaces the current script with something more malicious.

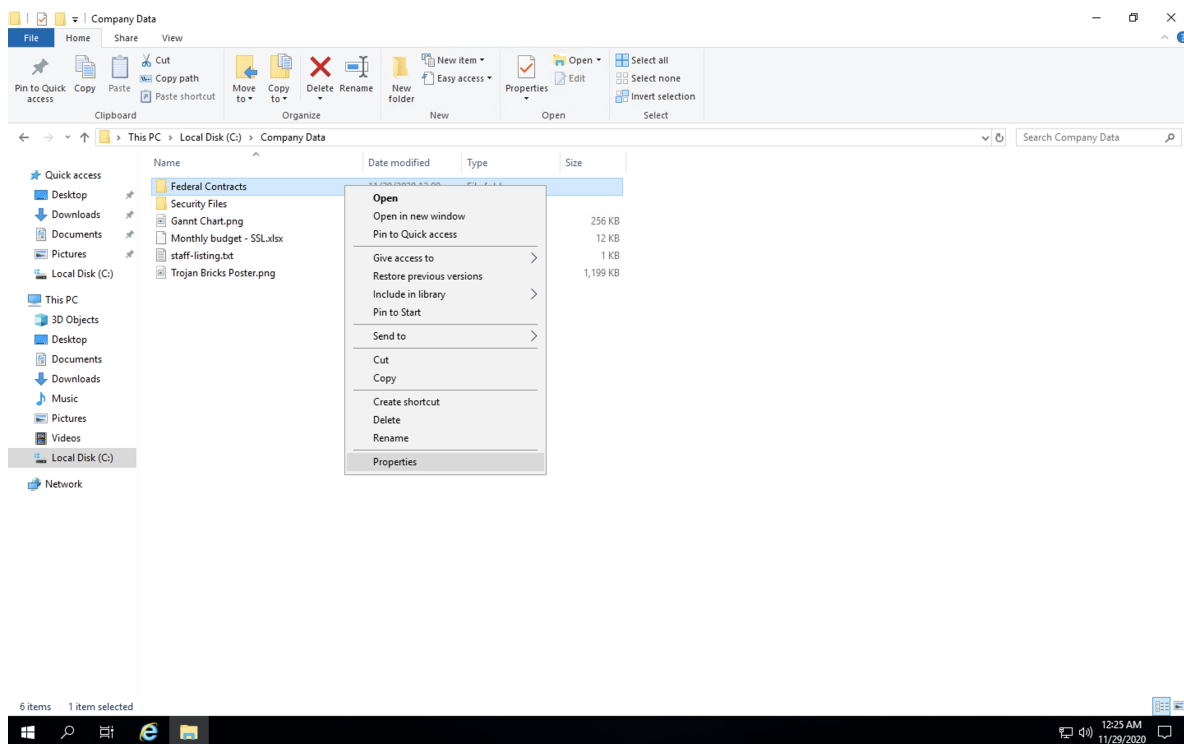
Remember, you only have 15 minutes to remove their access before they attack. Good luck!

## **Teacher Guide**

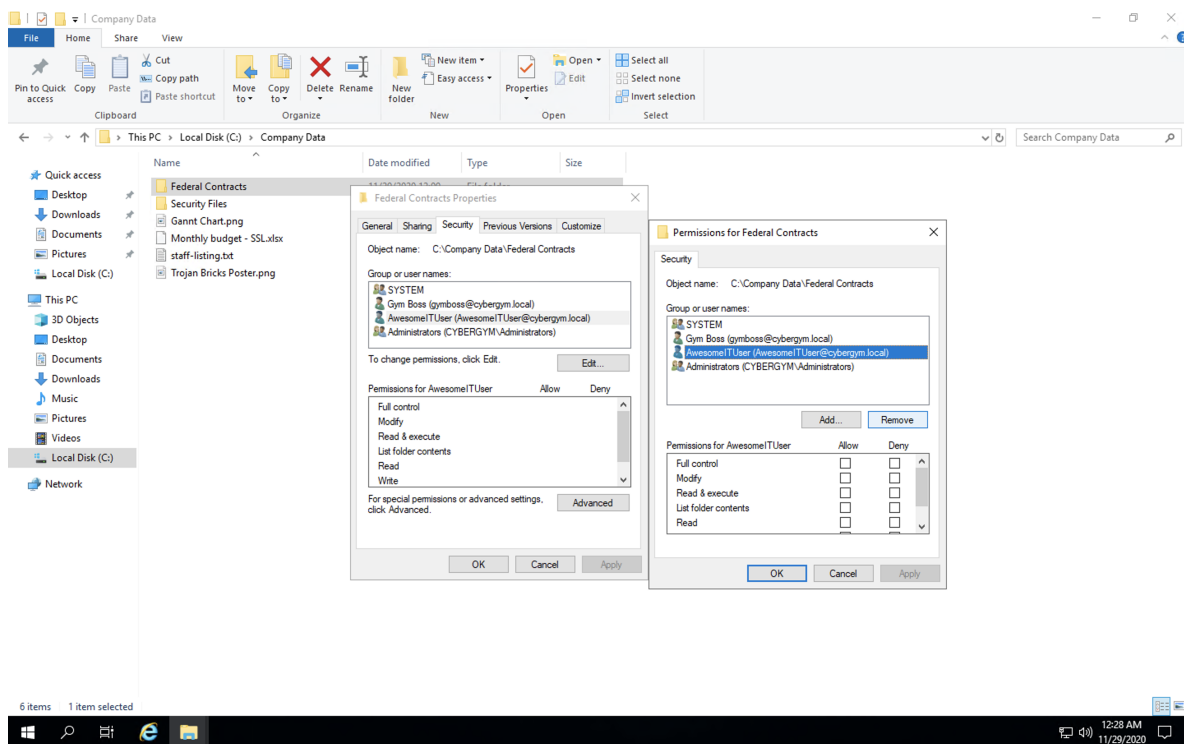
As the objective scenario provided, the student must remove access for three users.

1. Remove AwesomeITUser's access to the folder at *C:\Company Data\Federal Contracts*
2. Remove Harold Blair's access to the folder at *C:\inetpub\wwwroot\TrojanBricks*
3. Remove Lola Wolfe's access to the folder at *C:\Batch*

To remove access to a user, the student must navigate to the correct folder location. For the first task, the student must navigate to *C:\Company Data*, highlight the folder *Federal Contracts*, and select **Properties** from the context menu.

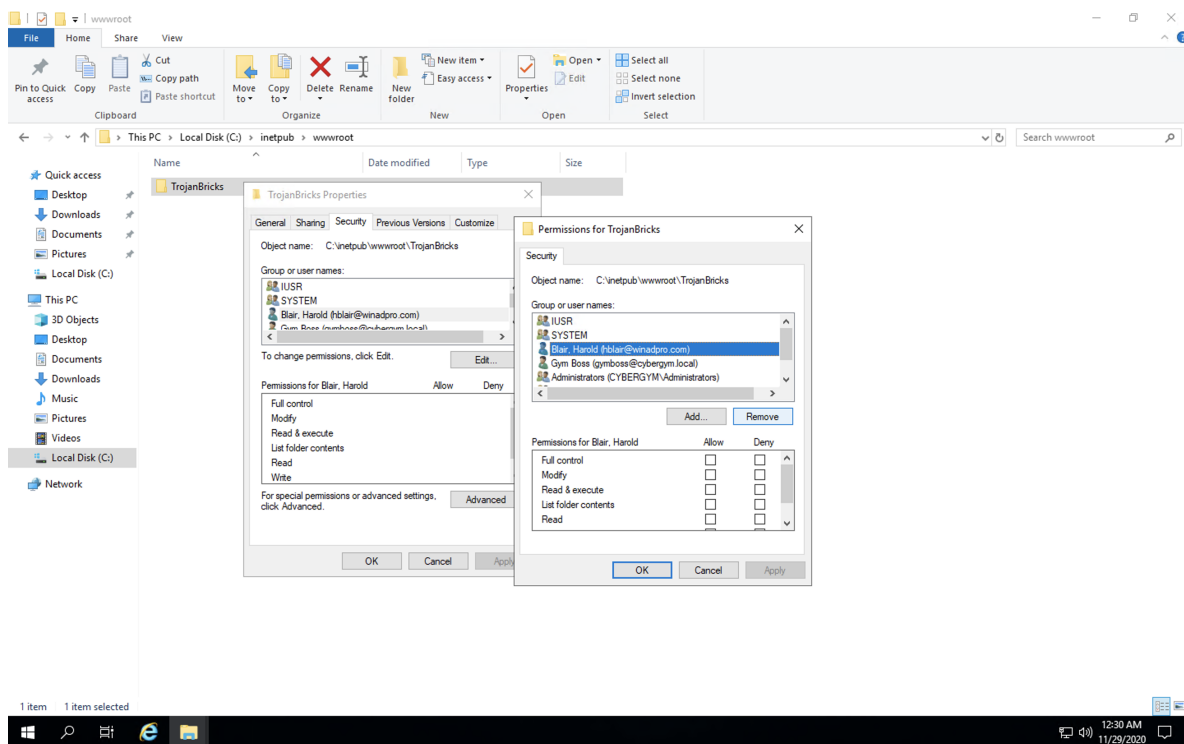


Once the properties window is open, the student must change to the security tab. The student will see a screen that shows all the users who have access to that folder. They must remove AwesomeITUser's access to the folder by selecting *Edit Highlight AwesomeITUser Remove*.

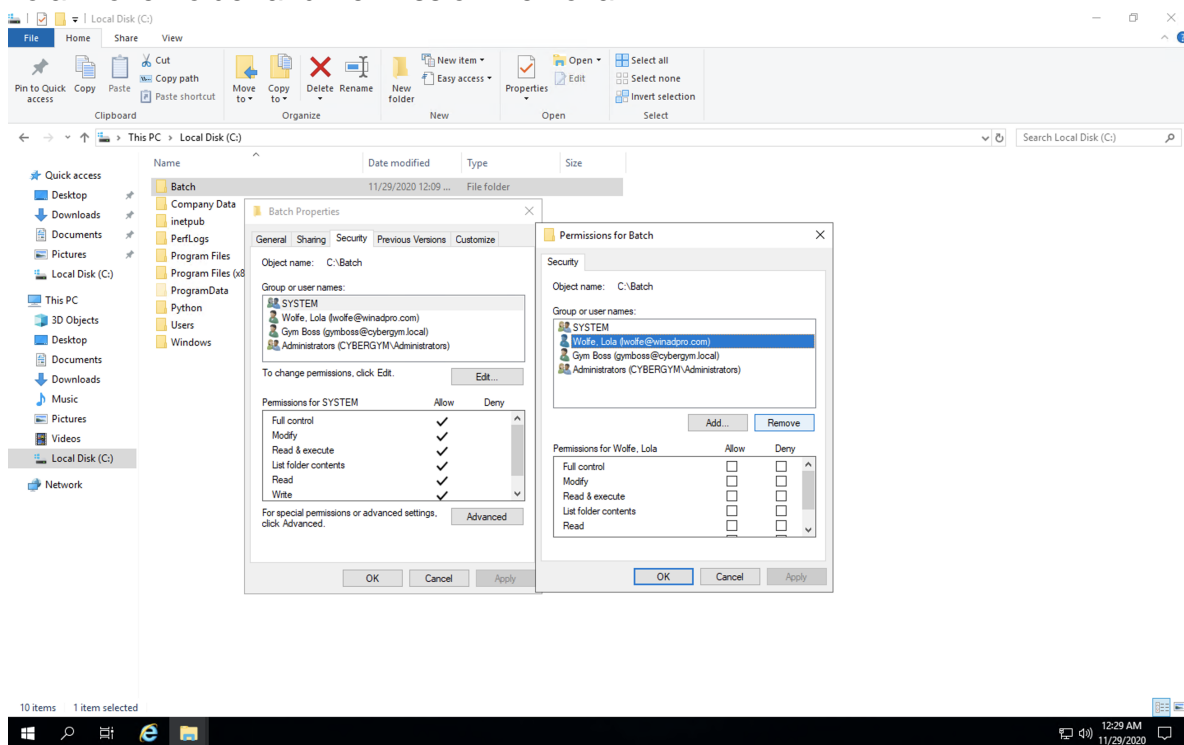


The student must confirm the removal of the user by **clicking Apply OK**. Once completed, they will have successfully removed the first user. They must now repeat this process with the remaining two users and their respective folders.

Harold Blairs Folder and Permission Removal



## Lola Wolfe Folder and Permission Removal



Once the student removes access to the three users they will have successfully completed the workout!

