

ATTACK DEFENSE

by PentesterAcademy

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Name	Selenium: Scripting Interaction
URL	https://attackdefense.com/challengedetails?cid=2343
Type	DevOps Basics: Testing

Important Note: This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

Objective: Learn how to automate interactions with Selenium.

Challenge Description

Selenium is an open-source web application testing framework for automating functional tests.

A VS code instance is provided with the selenium code and WordPress (wordpress) instance is also present in the lab. The credentials provided below can be used to log in to the WordPress portal:

Username	Password
admin	@mY_W0rdPr3SS_p@ssw0rd@102938

Objective: Automate the following activities using the Selenium script.

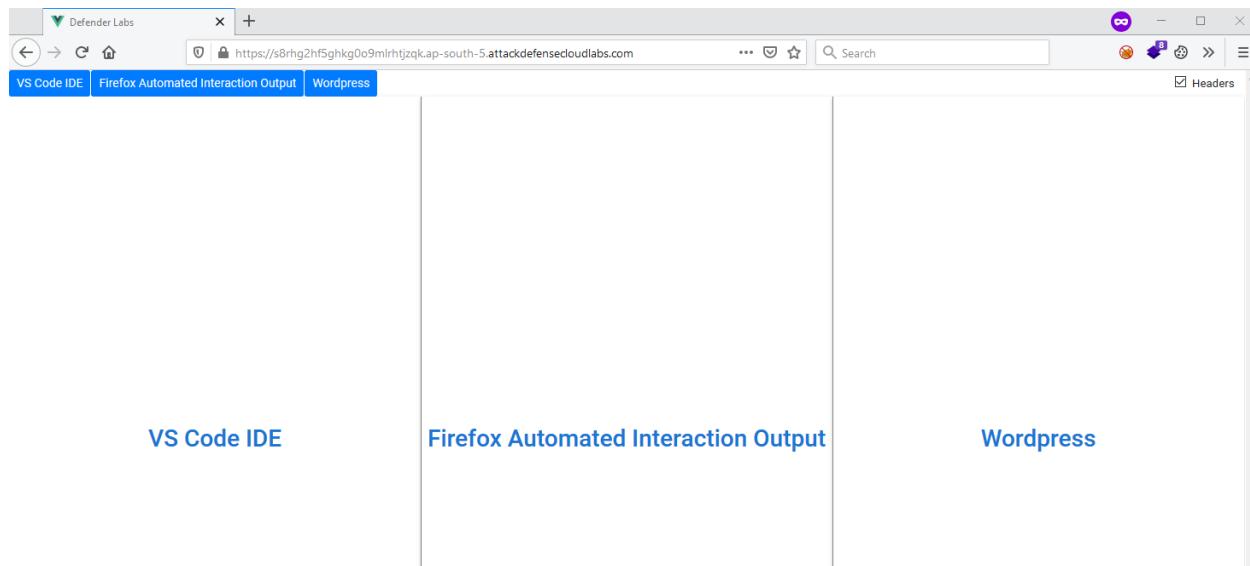
1. Login into WordPress portal as admin.
2. Upload the plugin.
3. Interact and schedule an appointment in the plugin

Instructions:

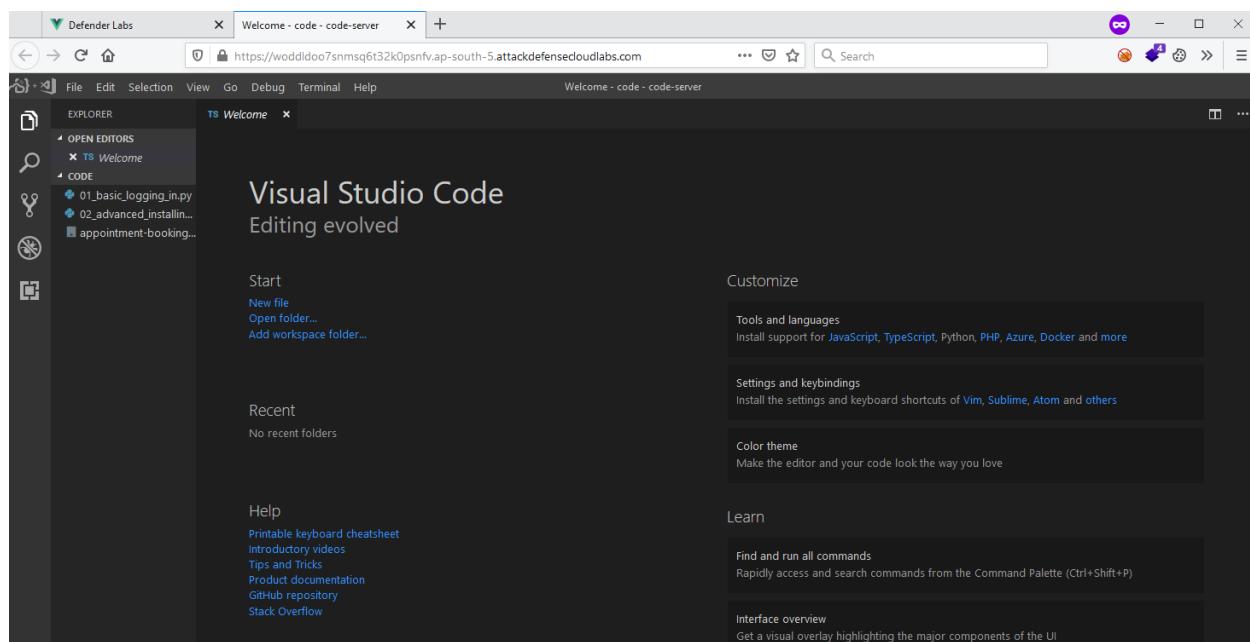
- The WordPress instance can be accessed on "wordpress"

Lab Setup

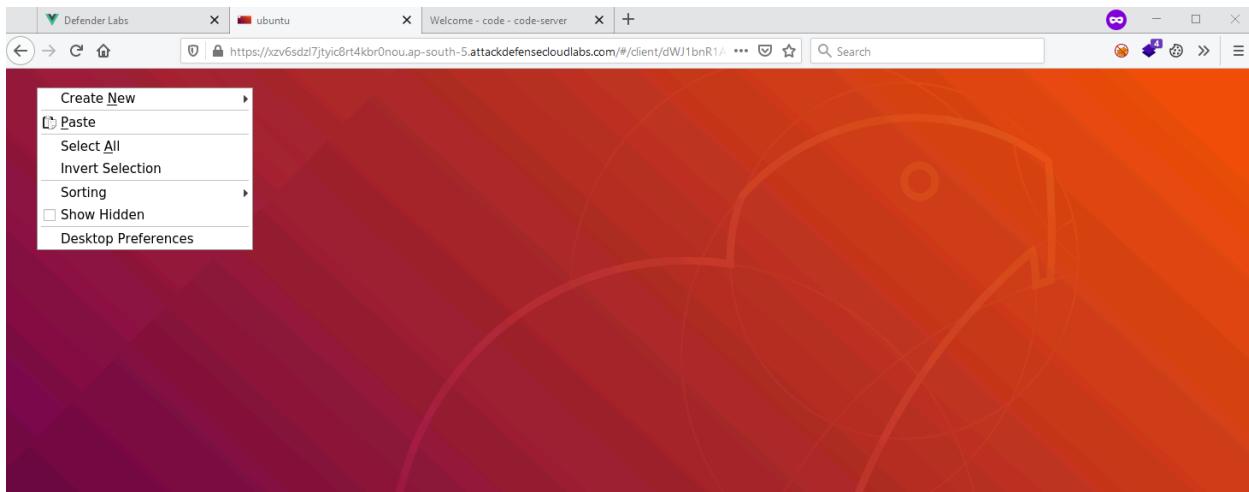
On starting the lab, the following interface will be accessible to the user.



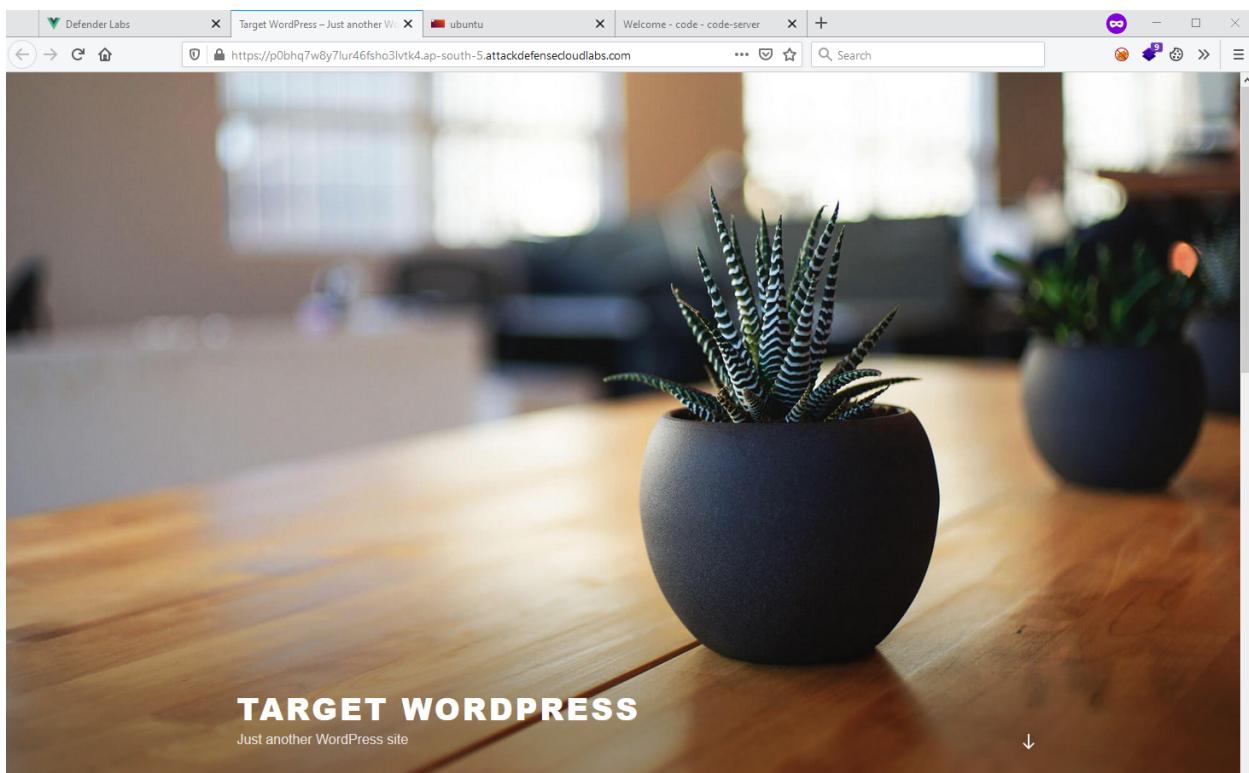
On choosing (clicking the text in the center) left panel, a **VS Code IDE** will open in a new tab.



On choosing (clicking the text in the center) middle panel, a **Ubuntu** instance will open in a new tab for **Firefox Automated Interaction Output**.

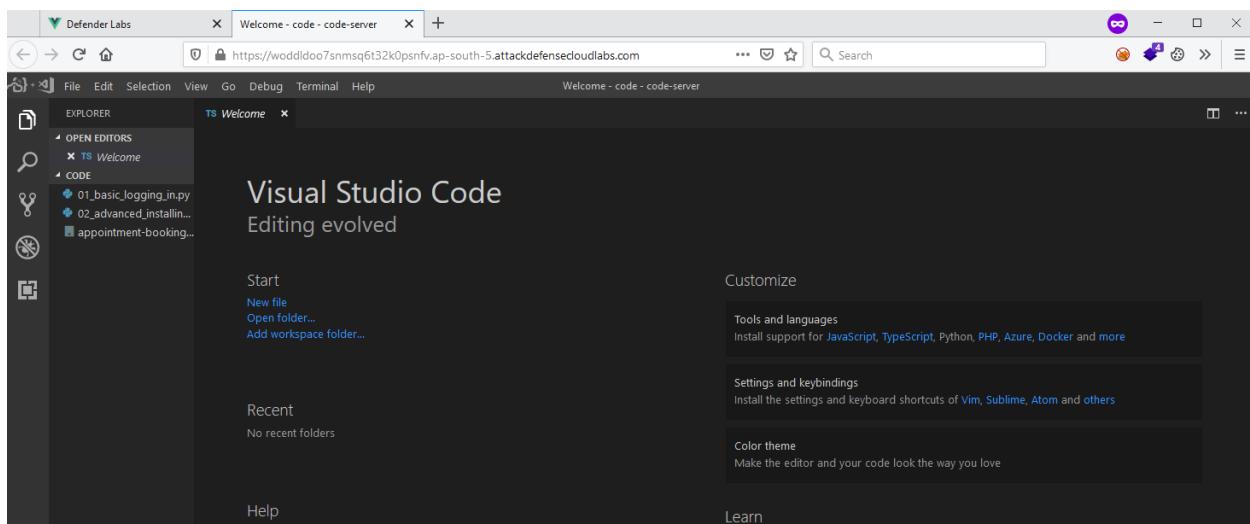


Similarly on selecting the right panel, a web UI of **WordPress** will open in a new tab.



Solution

Step 1: Visit the VS Code IDE instance.



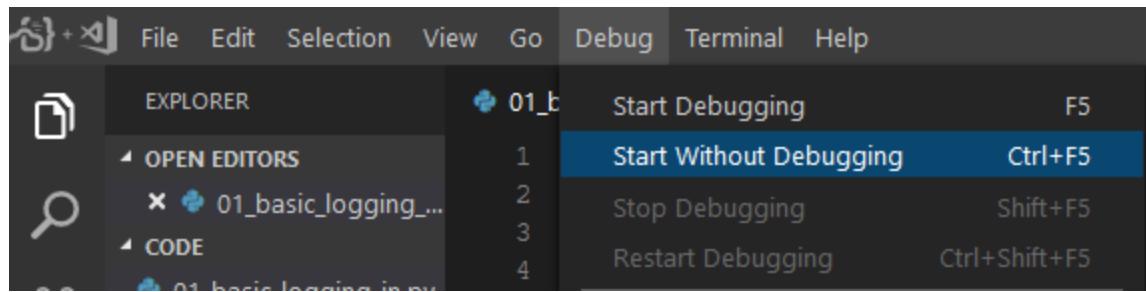
Step 2: Open the 01_basic_logging.py python file in the visual studio

A screenshot of the Visual Studio Code interface showing the content of the "01_basic_logging_in.py" file. The code is as follows:

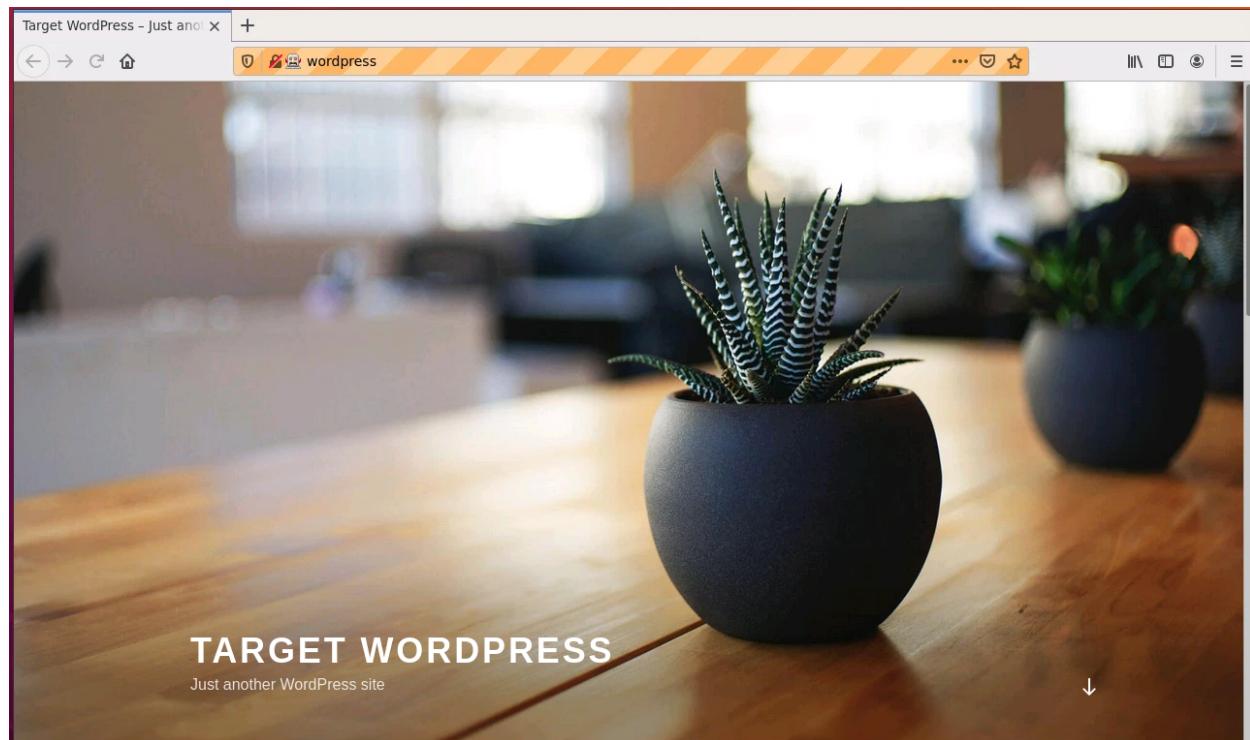
```
1  from selenium import webdriver
2  from selenium.webdriver.common.keys import Keys
3  import time
4  import os
5
6  os.environ["DISPLAY"] = ":10"
7  driver = webdriver.Firefox()
8
9  target_url = "http://wordpress"
10
11 driver.get(target_url)
12 time.sleep(4)
13
14 #Authentication
15 #####
16 driver.get(target_url + "/wp-login.php")
17 time.sleep(3)
18 username = driver.find_element_by_id('user_login')
19 password = driver.find_element_by_id('user_pass')
20 submit = driver.find_element_by_id('wp-submit')
21 username.send_keys("admin")
22 password.send_keys("@mY_W0rdPr3SS_p@ssw0rd@102938")
23 submit.send_keys(Keys.RETURN)
24 time.sleep(3)
```

The script will open the WordPress website in the browser and simply log in as the user admin.

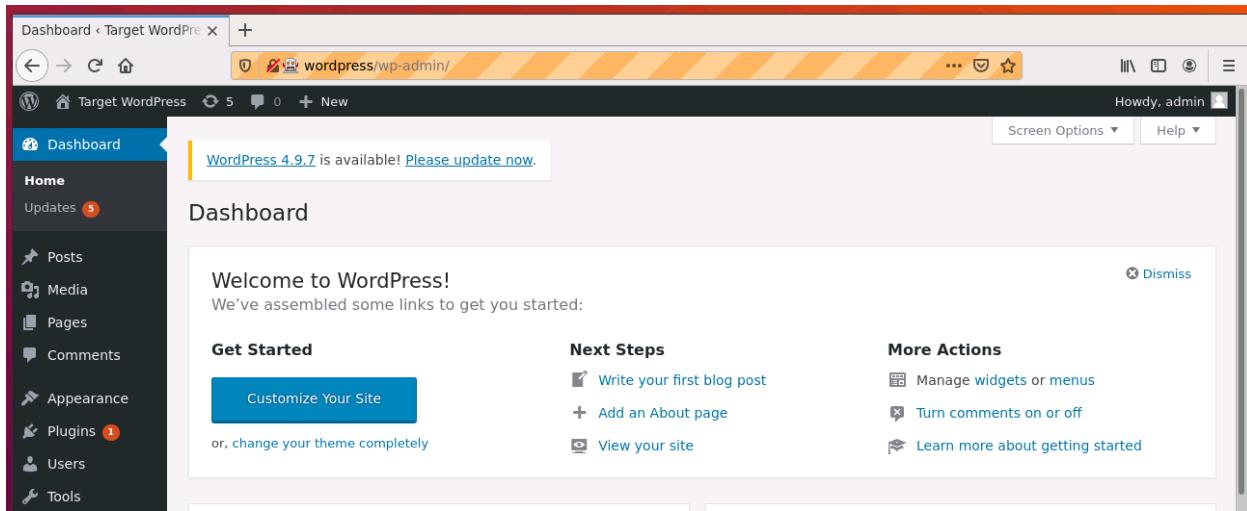
Step 3: Click on the Debug drop-down and select Start Without Debugging.



The script will start executing. Visit the 'Firefox Automated Interaction Output' instance.



The script will start a firefox session and open the target website.



The script has logged in as user admin successfully.

Step 4: Open the 02_advanced_installing_configuring_plugin.py python file in the visual studio.

A screenshot of the Visual Studio Code interface. The title bar shows 'Defender Labs' and '02_advanced_installing_configuring'. The address bar shows the URL 'https://wodldoo7snmsq6t32k0psnfv.ap-south-5.attackdefensedoulabs.com'. The code editor displays a Python script named '02_advanced_installing_configuring_plugin.py'. The script content is as follows:

```
from selenium import webdriver
from selenium.webdriver.common.keys import Keys
import time
import os

os.environ["DISPLAY"] = ":10"
driver = webdriver.Firefox()

target_url = "http://wordpress"

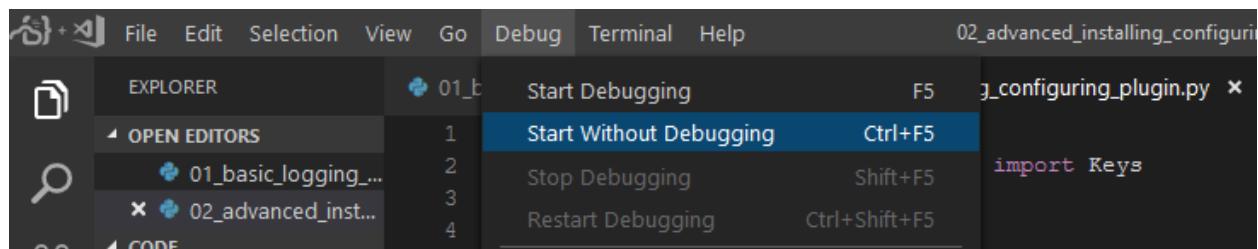
driver.get(target_url)
time.sleep(4)

#Authentication
#####
driver.get(target_url + "/wp-login.php")
time.sleep(3)
username = driver.find_element_by_id('user_login')
password = driver.find_element_by_id('user_pass')
submit = driver.find_element_by_id('wp-submit')
username.send_keys("admin")
password.send_keys("@mY_W0rdPr3SS_p@ssw0rd@102938")
submit.send_keys(Keys.RETURN)
time.sleep(5)

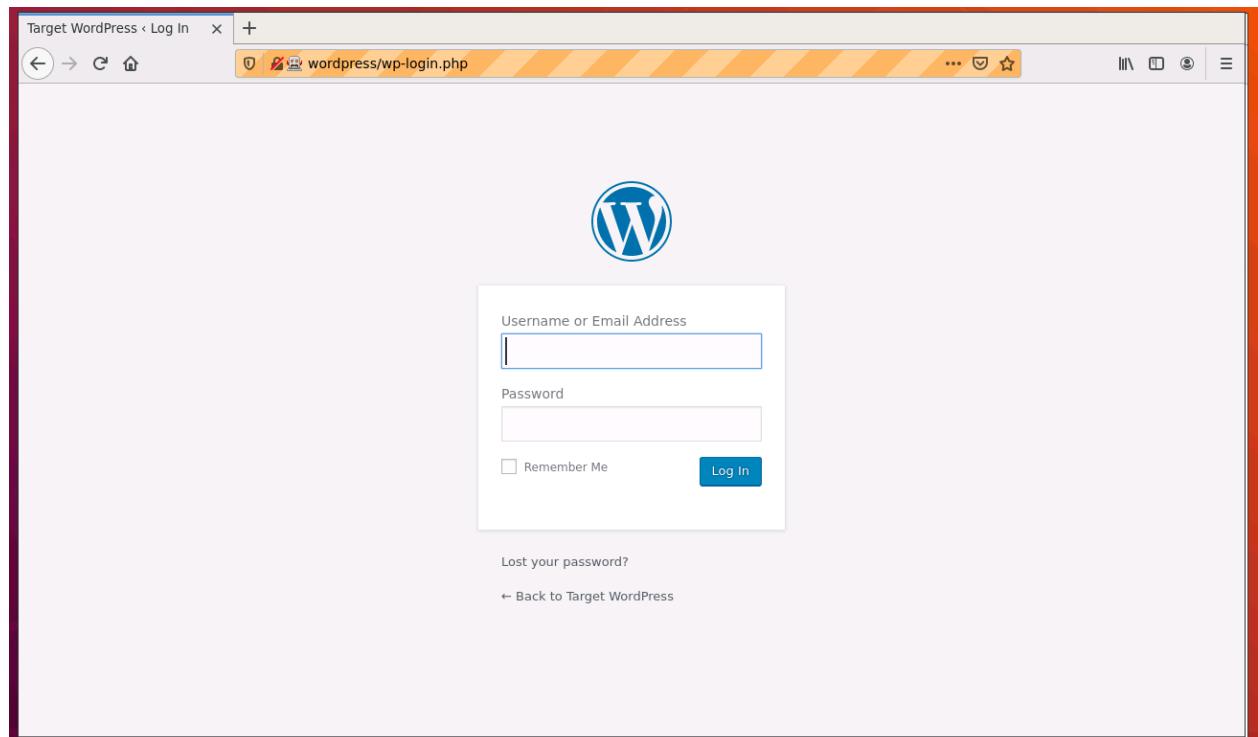
#Installing plugin
#####
upload_uri = "/wp-admin/plugin-install.php?tab=upload"
driver.get(target_url + upload_uri)
time.sleep(7)
```

The script will log in as user admin and upload a plugin on the website as well as create an appointment as part of the plugin's functionality.

Step 5: Click on the Debug drop-down and select Start Without Debugging.



The script will start a firefox session and open the target website.



The script will try to login and upload the plugin.



Add Plugins < Target WordPress

Wordpress/wp-admin/plugin-install.php?tab=upload

Howdy, admin

WordPress 4.9.7 is available! [Please update now.](#)

Add Plugins [Browse Plugins](#)

If you have a plugin in a .zip format, you may install it by uploading it here.

Browse... No file selected.

Install Now

Thank you for creating with [WordPress](#).

[Get Version 4.9.7](#)

This screenshot shows the 'Add Plugins' screen in the WordPress admin dashboard. The left sidebar is dark with white text, showing the 'Plugins' section has one item. The main area has a light background. A message at the top says 'WordPress 4.9.7 is available! Please update now.' Below it, a form allows users to upload a .zip file for a plugin. At the bottom, there's a note of thanks for using WordPress and a link to get the latest version.

Upload Plugin < Target WordPress

Wordpress/wp-admin/update.php?action=upload-plugin

Howdy, admin

WordPress 4.9.7 is available! [Please update now.](#)

Installing Plugin from uploaded file: appointment-booking-calendar.zip

Unpacking the package...

Installing the plugin...

Plugin installed successfully.

[Activate Plugin](#) [Return to Plugin Installer](#)

Thank you for creating with [WordPress](#).

[Get Version 4.9.7](#)

This screenshot shows the progress of installing a plugin from a uploaded file. It displays a series of status messages: unpacking the package, installing the plugin, and finally confirming successful installation. Buttons for activating the plugin or returning to the plugin installer are present. The overall layout is consistent with the previous screenshot, featuring a dark sidebar and a light main content area.

The script has uploaded the Plugin successfully. Now the script will try to create an appointment in the application.

The screenshot shows the WordPress Admin Dashboard with the 'Appointment Booking Calendar' plugin active. The left sidebar includes links for Dashboard, Posts, Media, Pages, Comments, Appearance, Plugins, Users, Tools, and Settings. Under 'Appointment Booking Calendar', there are links for Manage Calendars, Help: Online demo, I Need Help, and Upgrade. The main content area displays the 'Appointment Booking Calendar' settings page. It features a 'Calendar List / Items List' table with one item named 'First Booking'. The table includes columns for ID, Calendar Name, Owner, iCal Link, Options, and Shortcode. The 'Options' column contains buttons for Update, Manage Settings, Publish, Bookings List, Calendar Schedule, and Add Booking. The 'Shortcode' column shows the shortcode [CPABC_APPOINTMENT_CALENDAR calendar="1"]. Below the table is a 'New Calendar / Item' section with a note about supporting one calendar and a link to check upgrade options. At the bottom is a 'Form Builder Settings & Troubleshoot Area' with a note about using it only if experiencing conflicts with third-party plugins or theme scripts, and a dropdown for form rendering set to 'Use classic predefined form'. A small note at the bottom states: 'The Visual Form Builder is available in the commercial version. To edit the form in this basic version you should manually edit the files.'

The screenshot shows the WordPress admin dashboard with the 'Appointment Booking Calendar' plugin active. A modal window titled 'Add Booking' is open, displaying a calendar for June 2021. A specific time slot, '11:00', is selected. Below the calendar, there is an option to send notification emails.

Wordpress 4.9.7 is available! [Please update now.](#)

Add Booking

This page is for adding bookings from the administration area. The captcha and payment process are disabled in order to allow the website manager easily adding bookings.

Select date and time:

May 2021	June 2021	July 2021
Su Mo Tu We Th Fr Sa 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	Su Mo Tu We Th Fr Sa 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Su Mo Tu We Th Fr Sa 27 28 29 30 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

June 16, 2021

9:00 10:00 11:00 12:00
13:00 14:00 15:00 16:00

Please select the appointment time.

Administrator options

Send notification emails for this booking

* Note: Repeat / recurrent options are displayed after selecting a time-slot in the calendar.

Your phone number: _____

Your name: _____

The script has created an appointment successfully.

The screenshot shows the 'Appointment Booking Calendar - Bookings List' page. It displays a single booking entry for 'Calendar Item 1' on '06/16/2021 11:00'. The booking details include the title 'james@corp.xyz', description 'James', and quantity '1'. There are buttons for 'Delete marked items' and 'Delete All Bookings'.

Wordpress 4.9.7 is available! [Please update now.](#)

Appointment Booking Calendar - Bookings List

Back to items list...

This booking list applies only to: Calendar Item 1

Date	Title	Description	Quantity	Options
2021-06-16 11:00	james@corp.xyz	Calendar Item 1 06/16/2021 11:00 James james@corp.xyz 9090909090	1	Delete

[Print](#)

[Delete marked items](#) [Delete All Bookings](#)