3x01. Basic authentication



Weight: 1

首

Projects(/projects/current)

Project over - took place from Aug 5, 2024 6:00 AM to Aug 7, 2024 6:00 AM

An auto **CPA** i Previebres alvo a me that the flow or lie etions / to review)

Evaluation quizzes(/dashboards/my current evaluation quizzes) In a nutshell...

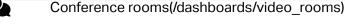
Auto QA review: 166.0/169 mandatory & 22.8/27 optional

Altogether: 181.16%

Curriculums(/dashboards/my_curriculums)

o Optional: 84.44%

Calculation: 98.22% + (98.22% * 84.44%) == 181.16% Concepts(/concepts)



Background Context

In this project, you will learn what the authentication process means and implement a Basic Authentication on a simple API.

Sandboxes(/user_containers/current)

In the industry, you should **not** implement your own Basic authentication system and use a module or framework that doing it for you (like in Python-Flask: Flask-HTTPAuth

#Itoken/Tosky/@M:10hunds@NiPubons/g)). Here, for the learning purpose, we will walk through each step of this mechanism to understand it by doing.

冊 Video on demand(/dashboards/videos)

Peers(/users/peers)

Discord(https://discord.com/app)





AUTHENTICATION FAILED!



Resoution (Sashboards/my_curriculums)

Read or watch:



- RESTRAPPASIGNETE ATTOM Mechanisms (/rltoken/ssg5umgsMk5jKM8WRHk2Ug)
- Base64 in Python (/rltoken/RpaPRyKx1rdHgRSUyuPfeg)

- HTTP header Authorization (/rltoken/WIARq8tQPUGQq5VphLKM4w)
- Q
- Base64 concept (/rltoken/br6Rp4iMaOce6EAC-JQnOw)

Learning Objectives

At the englacithis explicit. you are expected to be able to explain to anyone (/rltoken/swilZazfz7mspY1vjuy_Zg), without the help of Google:

Reneral (/dashboards/my_tools)

- · What authentication means
- Æ
- What ନେନେ ପର୍ବାଳ and (/dashboards/videos)
- · How to encode a string in Base64
- What Basic authentication means
- How to send the Authorization header

Peers(/users/peers) Requirements

Python Scripts Output Discord(https://discord.com/app)

- All your files will be interpreted/compiled on Ubuntu 18.04 LTS using python3 (version 3.7)
- · All your files should end with a new line
- The first line of all your files should be exactly #!/usr/bin/env python3
- A 内存物情iledusibles非常的更多的。
- Your code should use the pycodestyle style (version 2.5)





bob@dylan:~\$ curl "http://0.0.0.0:5000/api/v1/status" -vvv Trying 0.0.0.0... * (T)CP_NODELAY set * Connected to 0.0.0.0 (127.0.0.1) port 5000 (#0) > GET /api/v1/status HTTP/1.1 ■> HostHome(v)o.o:5000 > User-Agent: curl/7.54.0 > Accept: */* My Planning(/planning/me) * HTTP 1.0, assume close after body < HTTP/1.0 200 OK ♥< conternieats/projecots/courteint/json < Content-Length: 16 < Access-Control-Allow-Origin: * /< Serv@ArReviewvselwauh1m@ke(/@ptrleootions/Ito5 review) < Date: Mon, 18 May 2020 20:29:21 GMT 🧖 {"statยเล่นส่งให้ที่ quizzes(/dashboards/my_current_evaluation_quizzes) * Closing connection 0 bob@dylan:~\$ B Curriculums(/dashboards/my curriculums) Repo: GitHub repository: alx-backend-user-data Concepts(/concepts) Directory: 0x01-Basic_authentication Conference rooms(/dashboards/video_rooms) Check submission >_ Get a sandbox View results **፷** Error9ฅฆพณฑฟฺฅฃพฅฆังthorized mandatory What the HTTP status code for a request unauthorized? 401 of course! Tools(/dashboards/my tools) Edit api/v1/app.py: Add a new error handler for this status code, the response must be: Video on demand(/dashboards/videos)
o a JSON: {"error": "Unauthorized"} status code 401 you must use jsonify from Flask 🗫 r testi**កិច្ច¢ក្រស់ មេខាទៅកូច¢ក្រស់**ndler, add a new endpoint in api/v1/views/index.py: • Route: GET /api/v1/unauthorized • This send to thirthes welt so is related and only approprious about - Custom Error Pages (/rltoken/RH0gY_XQuSB75Q-Jbl-fdg) By calling abort (401), the error handler for 401 will be executed. In the first terminal:

```
bob@dylan:~$ API_HOST=0.0.0.0 API_PORT=5000 python3 -m api.v1.app
\overline{\pm} * Running on http://0.0.0.0:5000/ (Press CTRL+C to quit)
   . .(/).
  n a second terminal:
Home(/)
   bob@dylan:~$ curl "http://0.0.0.0:5000/api/v1/unauthorized"
     "error": "Unauthorized me)
bob@dylan:~$
bob@dylan:~$
bob@dylan:~$
current).0.0.0:5000/api/v1/unauthorized" -vvv
        Trying 0.0.0.0...
   * TCP_NODELAY set
 /* confed reviews confide kells or rections / the review (#0)
   > GET /api/v1/unauthorized HTTP/1.1
   > Host: 0.0.0.0:5000
? > UserEvaluation പ്രേദ്മുട്ടേ (പ്രിമുട്ടിത്ര boards/my_current_evaluation_quizzes)
   > Accept: */*
   * HTTP 1.0, assume close after body
   HTTP/1 0 401 UNAUTHORIZED
Curriculums(dashboards/my_curriculums)
< Content-Type: application/json</p>
   < Content-Length: 30
Conference rooms(/dashboards/video_rooms)
* Closing connection 0
bob@dylan:~$
**Closing connection 0
***Closing connection 0
          Sandboxes(/user_containers/current)
 Repo:

    GitHub repository: alx-backend-user-data
_Tools(/dashboards/my_tools)

        Directory: 0x01-Basic_authentication
     • File: api/v1/app.py, api/v1/views/index.py
田
          Video on demand(/dashboards/videos)
   Check submission
                       >_ Get a sandbox
                                           View results
```

Error handler Fyskidden

mandatory

Score: 100.0% (*Checks completed: 100.0%*)

What the HTTP status code for a request where the user is authenticate but not allowed to access to resource? 403 of course!

Edit api/v1/app.py:

• Add a new error handler for this status code, the response must be:

```
a JSON: {"error": "Forbidden"}
           o status code 403

    you must use jsonify from Flask

     (/)
 For testing this new error handler, add a new endpoint in api/v1/views/index.py:
      Home(/)
Route: GET /api/v1/forbidden

    This endpoint must raise a 403 error by using abort - Custom Error Pages

       (/rktokera/Rhilog/Ypj&AniaB775Q-Jbl-fdg)
 By calling abort (403), the error handler for 403 will be executed.
ទីn the first មួចក្រសួង (Aprojects/current)
   bob@dylan:~$ API_HOST=0.0.0.0 API_PORT=5000 python3 -m api.v1.app
   * Run RAn Review Bet pan make (loop restions/to-resise ventre +c to quit)
 n a second terminal:
   bob@dylan:~$ curl "http://0.0.0.0:5000/api/v1/forbidden"
     "errourriculums/idashboards/my curriculums)
   bob@dylan:~$
bob@dycancests(kronceptsp://0.0.0.0:5000/api/v1/forbidden" -vvv
       Trying 0.0.0.0...
   * TCP_NODELAY set
   * Connected to 0.00 (127 0.01) port 5000 (#0)
> GET /api/v1/forbidden HTTP/1.1
   > Host: 0.0.0.0:5000
Servers(/servers)

> Accept: */*
  * HTTP 1.0, assume close after body
Sandboxes(/user_containers/current)
< HTTP/1.0 403 FORBIDDEN
   < Content-Type: application/json
   < Content-Length: 27
< Server: Werkzeug/0.12-1 Python/3.4.3</pre>
   < Date: Sun, 24 Sep 2017 22:54:22 GMT
Video on demand(/dashboards/videos)
     "error": "Forbidden"
   * Closing connection 0
Lbob@dybeers(/\u00e9sers/peers)
Repo:
         Discord(https://discord.com/app)

    GitHub repository: alx-backend-user-data

    Directory: 0x01-Basic_authentication

    File: api/v1/app.py, api/v1/views/index.py
```

3. Auth class mandatory Home(/) Score: 100.0% (Checks completed: 100.0%) ow you Man Placating (เสโลยราชาชากาลคลge the API authentication. Create a folder api/v1/auth • Create and property file capie yell auth/_init_.py Create the class Auth: o in the file api/v1/auth/auth.py QA Reviews I can make (/corrections/to_review) o class name Auth Evaluation quizzes(/dashboards/my_current_evaluation_quizzes) -> bool: that returns False - path and excluded_paths will be used later, now, you don't need to take care of them o public method def authorization_header(self, request=None) -> str: that returns Curriculums (reguest object o public method def current_user(self, request=None) -> TypeVar('User'): that returns None - request will be the Flask request object Concepts(/concepts) Concepts(/concepts)
This class is the template for all authentication system you will implement. bob@dylan; \$ cat main 0 Allboards/video_rooms) #!/usr/bin/env python3 """ Main 0 Servers(/servers) from api.v1.auth.auth import Auth a = Auth() Sandboxes(/user_containers/current) print(a.require_auth("/api/v1/status/", ["/api/v1/status/"])) print(a.authorization_header())
print(a.current_user()) **∍**bob@dy lan : ~\$ bob@dyldeo.gn demand((dashbeards/kideostr=5000 ./main_0.py False None None **_**Bob@dyPeers(fesers/peers) Discord(https://discord.com/app) Repo: GitHub repository: alx-backend-user-data Directory: 0x01-Basic_authentication File: api/v1/auth, api/v1/auth/__init__.py, api/v1/auth/auth.py

>_ Get a sandbox

My Profile(/users/my_profile)

Check submission

View results

>_ Get a sandbox View results Check submission 5. Request validation! mandatory Home(/) Score: 100.0% (Checks completed: 100.0%) ow you Mai Rianding (An language) secure the API: Update the method def authorization_header(self, request=None) -> str: in ች pi/v1/අፙቀራቄ(አያስያውcts/current) • If request is None, returns None • It carries to contain the header key Authorization, returns None • Otherwise, return the value of the header request Authorization Update the file api/v1/app.py : Evaluation quizzes(/dashboards/my_current_evaluation_quizzes) • Create a variable auth initialized to None after the CORS definition Based on the environment variable AUTH_TYPE, load and assign the right instance of authentication to auth Curriculums(/dashboards/my_curriculums) ■ import Auth from api.v1.auth.auth create an instance of Auth and assign it to the variable auth Concepts (/concepts) 盲 Now the biggest piece is the filtering of each request. For that you will use the Flask method before request (/rltoken/kzBrJT9aaokbD6aWYyQzXg) Conference rooms(/dashboards/video_rooms) Add a method in api/v1/app.py to handler before_request o if auth is None, do nothing Servers (Section is not part of this list ['/api/v1/status/', '/api/v1/unauthorized/', '/api/v1/forbidden/'], do nothing - you must use the method require_auth from the auth instance Sandboxes(/user_containers/current) o if auth.authorization_header(request) returns None, raise the error 401 - you must use abort Toolif(/dushbourds/nhyutoonis) returns None, raise the error 403 - you must use the first terminal the first ter bob@dylan:~\$ API_HOST=0.0.0.0 API_PORT=5000 AUTH_TYPE=auth python3 -m api.v1.app * Running on http://0.0.0.0:5000/ (Press CTRL+C to quit)

Peers(/users/peers)

In a second terminal:

0

Discord(https://discord.com/app)

Q

```
bob@dylan:~$ curl "http://0.0.0.0:5000/api/v1/status"
           (/)status": "OK"
       bob@dylan:~$
     bob@dyHame(s curl "http://0.0.0.0:5000/api/v1/status/"
             "status": "OK"
                     My Planning(/planning/me)
       bob@dylan:~$
       bob@dylan:~$ curl "http://0.0.0.0:5000/api/v1/users"
                     Projects(/projects/current)
            "error": "Unauthorized"

✓ bob@dyQArRevSews I can make(/corrections/to review)

       bob@dylan:~$ curl "http://0.0.0.0:5000/api/v1/users" -H "Authorization: Test"
             "er មេរងបែងប៉េចក្រសួររដ្ឋមន្ត្រ(/dashboards/my_current_evaluation_quizzes)
       }
       bob@dylan:~$
                     Curriculums(/dashboards/my curriculums)
   Repo:

    GitHub repository: alx-backend-user-data Concepts(/concepts)

               Directory: 0x01-Basic_authentication

    File: api/v1/app.py, api/v1/auth/auth.py

                     Conference rooms(/dashboards/video_rooms)
       Check submission
                                                 >_ Get a sandbox
                                                                                         View results
                     Servers(/servers)
    6. Basic auth
                                                                                                                                                                                                          mandatory
                     Sandboxes(/user_containers/current)
       Score: 100.0% (Checks completed: 100.0%)
Create a class basic Auth that inner its from Auth . For the moment this class will be empty.
   Update api/v1/app.py for using BasicAuth class instead of Auth depending of the value of the
Thvironn Y EAR O A TERM TO A DAY DO THE ARM OF THE PROPERTY OF
           • import BasicAuth from api.v1.auth.basic_auth
           • create an instance of BasicAuth and assign it to the variable auth
ক্রিমান্ত প্রস্থিত ক্রিক্টি ক্রিটিটি mechanism with auth an instance of Auth .
   In the first terminal:
                     Discord(https://discord.com/app)
       bob@dylan:~$ API_HOST=0.0.0.0 API_PORT=5000 AUTH_TYPE=basic_auth python3 -m api.
          * Running on http://0.0.0.0:5000/ (Press CTRL+C to quit)
   In a secoling Renfile (users/my_profile)
```

```
bob@dylan:~$ curl "http://0.0.0.0:5000/api/v1/status"
     (/)status": "OK"
  bob@dylan:~$
  bob@dy19me48 curl "http://0.0.0.0:5000/api/v1/status/"
     "status": "OK"
         My Planning(/planning/me)
  bob@dylan:~$
  bob@dylan:~$ curl "http://0.0.0.0:5000/api/v1/users"
         Projects(/projects/current)
     "error": "Unauthorized"

✓ bob@dyQArRevSews I can make(/corrections/to_review)

  bob@dylan:~$ curl "http://0.0.0.0:5000/api/v1/users" -H "Authorization: Test"
     "er เริงลในละเอก chitates (/dashboards/my _current_evaluation_quizzes)
  bob@dylan:~$
         Curriculums(/dashboards/my curriculums)
 Repo:

    GitHub repository: alx-backend-user-data
Concepts(/concepts)

       Directory: 0x01-Basic_authentication
     • File: api/v1/app.py, api/v1/auth/basic_auth.py
         Conference rooms(/dashboards/video_rooms)
   Check submission
                     >_ Get a sandbox
                                        View results
         Servers(/servers)
 7. Basic - Base64 part
                                                                                           mandatory
         Sandboxes(/user_containers/current)
   Score: 100.0% (Checks completed: 100.0%)
Add the method defrextract_base64_authorization_header(self, authorization_header: str)
 -> str: in the class BasicAuth that returns the Base64 part of the Authorization header for a
Figs: Authentication: Video on demand(/dashboards/videos)
     • Return None if authorization_header is None

    Return none if authorization_header is not a string

    Return None if authorization_header doesn't start by Basic (with a space at the end)

    • Otherwisesettine the value after Basic (after the space)
     • You can assume authorization_header contains only one Basic
\mathbf{\omega}
         Discord(https://discord.com/app)
```

bob@dylan:~\$ cat main_2.py #!/usr/bin/env python3 ""("/) Main 2 from api.v1.auth.basic_auth import BasicAuth Home(/) a = BasicAuth() print My Examaio g (Indone in galmen or ization_header (None)) print(a.extract_base64_authorization_header(89)) print(a.extract_base64_authorization_header("Holberton School")) print (Parojects Horojects 641 reenth) orization_header("Basic Holberton")) print(a.extract_base64_authorization_header("Basic SG9sYmVydG9u")) print(a.extract_base64_authorization_header("Basic SG9sYmVydG9uIFNjaG9vbA==")) ✓ print (QA exertiews Lloane 6 4 ke (/choneix tothis/to_heaviteur) ("Basic 1234")) bob@dylan:~\$ 🧖 bob@dyElvanuat6oAPqLiizb2657/te0ashb0bard&PrayP0BTre5r000evalu000ibn_2qu0xzes) None None None Holberton SG9sYmvydGyllums(/dashboards/my_curriculums) SG9sYmVydG9uIFNjaG9vbA== bob@dyGancegts(/concepts) Conference rooms(/dashboards/video rooms) Repo: GitHub repository: alx-backend-user-data Servers(/servers) Directory: 0x01-Basic_authentication File: api/v1/auth/basic_auth.py Sandboxes(/user_containers/current) Check submission >_ Get a sandbox View results Tools(/dashboards/my_tools) 8. Basic - Base64 decode mandatory Video on demand(/dashboards/videos) Score: 100.0% (Checks completed: 100.0%) Add the method def decode_base64_authorization_header(self, 🚵 se64_ puth on is a fair and a strip -> str: in the class BasicAuth that returns the decoded value of a Base64 string base64_authorization_header: Return None if hase 64 authorization header is None Return None if base64_authorization_header is not a string Return None if base64_authorization_header is not a valid Base64 - you can use try/exce Otherwise, return the decoded value as UTF8 string - you can use decode('utf-8')

bob@dylan:~\$ cat main_3.py #!/usr/bin/env python3 ""("/) Main 3 from api.v1.auth.basic_auth import BasicAuth Home(/) a = BasicAuth() print My @eangings/weapings/mm)rization_header(None)) print(a.decode_base64_authorization_header(89)) print(a.decode_base64_authorization_header("Holberton School")) print (Parojects//projects print(a.decode_base64_authorization_header("SG9sYmVydG9uIFNjaG9vbA==")) print(a.decode_base64_authorization_header(a.extract_base64_authorization_header ✓ ("BasiQA\$Revièwwsylob@onuth@lkeje/600mleAtticlh)sytho review) bob@dylan:~\$ 🧖 bob@dyElvanuat6oAPqLiizb2657/tcDashbDoardAPhTayPQBTre5rROQvalUnntion_Qunxzes) None None None Holberton Holberton Curriculums (/dashboards/my_curriculums) Holberton School bob@dylan:~\$ Concepts(/concepts)

- **Conference rooms(/dashboards/video_rooms)**
 - GitHub repository: alx-backend-user-data
- Directory: 0x01-Basic_authentication Servers(/Servers)
 - File: api/v1/auth/basic_auth.py

Sandboxes(/user_containers/current)
Check submission

> Get a sandbox
View results

ይ. Basic To የታጀርተ ይከት ይመረተ በተጠል tools)

mandatory

EScore: VIQQ O York Oberalanch/dalantob and silvideos)

Add the method def extract_user_credentials(self, decoded_base64_authorization_header: str) -> (str, str) in the class BasicAuth that returns the user email and password from the see64 Recode to the sall peers)

- This method must return 2 values
- Return None if decoded hase64_authorization_header is None
- Return None, None if decoded_base64_authorization_header is not a string
- Return None, None if decoded_base64_authorization_header doesn't contain :
- Otherwise, return the user email and the user password these 2 values must be separated by a
- You can assume decoded_base64_authorization_header will contain only one : My Profile(/users/my_profile)

```
bob@dylan:~$ cat main_4.py
  #!/usr/bin/env python3
  ""("/) Main 4
  from api.v1.auth.basic_auth import BasicAuth
        Home(/)
  a = BasicAuth()
 print (My examaiog (/psamioge/onen) tials (None))
  print(a.extract_user_credentials(89))
  print(a.extract_user_credentials("Holberton School"))
print (Projects://orojects/ouredet)tials("Holberton:School"))
  print(a.extract_user_credentials("bob@gmail.com:toto1234"))
✓ bob@dyQArRevSews I can make(/corrections/to review)
  bob@dylan:~$ API_HOST=0.0.0.0 API_PORT=5000 ./main_4.py
  (None, None)
?(None,EV始)on quizzes(/dashboards/my_current_evaluation_quizzes)
  (None, None)
  ('Holberton', 'School')
  ('bob@gmail.com', 'toto1234')
  bob@dylan:~$
        Curriculums(/dashboards/my_curriculums)
Eepo: Concepts(/concepts)
    • GitHub repository: alx-backend-user-data
```



Directory: 0x01-Basic authentication Conference rooms/dashboards/video rooms)

File: api/v1/auth/basic_auth.py

Servers(/servers)

Check submission

>_ Get a sandbox

View results

10. Baskandbsers/bject containers/current)

mandatory

Score: 70805571664911160/erds/maletedo78157%)

Add the method def user_object_from_credentials(self, user_email: str, user_pwd: str) -Video on demand(/dashboards/videos) TypeVar('User'): in the class BasicAuth that returns the User instance based on his email and password.

• Return None if user_email is None or not a string

- Retugns None or not a string
 - Return None if your database (file) doesn't contain any User instance with email equal to user_email - you should use the class method search of the User to lookup the list of users based on their email. Don't forget to test all cases: "what if there is no user in DB?", etc.
 - Return None if user_pwd is not the password of the User instance found you must use the method is_valid_password of User
 - Otherwise, return the User instance

```
bob@dylan:~$ cat main_5.py
 #!/usr/bin/env python3
  ""("/) Main 5
   import uuid
from at mellauth.basic_auth import BasicAuth
  from models.user import User
  """ c₁Neya (Pelananing sel/plananing sel/plananing sel/plananing sel/plananing sel/plananing sel/plananing sel
  user_email = str(uuid.uuid4())
  user_clear_pwd = str(uuid.uuid4())
user Projects/projects/current)
  user.email = user_email
  user.first_name = "Bob"
 ✓ user. To AstRevoiencys‡chopymbanke(/corrections/to_review)
  user.password = user_clear_pwd
  print("New user: {}".format(user.display_name()))
""" Retreive this user via the class BasicAuth """
  a = BasicAuth()
        Curriculums(/dashboards/my_curriculums)
  u = a.user_object_from_credentials(None, None)
print(u.display_name() if u is not None else "None")

Concepts(/concepts)
  u = a.user_object_from_credentials(89, 98)
  print(u.display_name() if u is not None else "None")
        Conference rooms(/dashboards/video_rooms)
  u = a.user_object_from_credentials("email@notfound.com", "pwd")
  print(u.display_name() if u is not None else "None")
        Servers(/servers)
  u = a.user_object_from_credentials(user_email, "pwd")
  print(u.display_name() if u is not None else "None")
        Sandboxes(/user_containers/current)
  u = a.user_object_from_credentials(user_email, user_clear_pwd)
  print(u.display_name() if u is not None else "None")
        Tools(/dashboards/my tools)
  bob@dylan:~$
  bob@dylan:~$ API_HOST=0.0.0.0 API_PORT=5000 ./main_5.py
₩ New usuadeo Book deyrlamd(/dashboards/videos)
  None
  None
  None
  None
Peers(/users/peers)
  bob@dylan:~$
Discord(https://discord.com/app)
 Repo:

    GitHub repository: alx-backend-user-data
```

• Directory: 0x01-Basic_authentication

Filmy arbityel/layets/has is callen. py

>_ Get a sandbox View results Check submission Mark submission 11. Basic - Overload current user - and BOOM! mandatory Home(/) Score: 100.0% (Checks completed: 100.0%) ow, you**MhaPeaming(pelatoring/mg)** a complete Basic authentication. Add the method def current_user(self, request=None) -> TypeVar('User') in the class 🗣 asicAடிரு நிக்குத் முழு நிறுக்கிற பிருக்கிற விருக்கிற விருக்கி • You must use authorization_header You must use extract base64 authorization header • You must use decode_base64_authorization_header • You must use extract_user_credentials YoEvaluation_quizzes/gaseboorga/myesekrent_evaluation_quizzes) With this update, now your API is fully protected by a Basic Authentication. Enjoy! In the first terminal: Curriculums(/dashboards/my_curriculums) bob@dylan:~\$ cat main_6.py #!/usr/bin/env python3 📑 """ Mæjøn@epts(/concepts) import base64 **●**from @dinteleauthobasi(rdauhbodirus)vituea_sioAhus)h from models.user import User """ Createra(/yervertest """ user_email = "bob@hbtn.io" user_clear_pwd = "H0lbertonSchool98!" _user = User() Sandboxes(/user_containers/current) user.email = user_email user.password = user_clear_pwd print("New user: {} / {}" format(user.id, user.display_name()))
Tools(dashboards/my_tools) user save() basic_clear = "{}:{}".format(user_email, user_clear_pwd)
print("Basic Base64: {}".format(base64.b64encode(basic_clear.encode('utf-8')).dec ode("utf-8"))) bob@dylan:~\$ bob@dyPleers{/\$s&P5/ple685}=0.0.0.0 API_PORT=5000 ./main_6.py New user: 9375973a-68c7-46aa-b135-29f79e837495 / bob@hbtn.io Basic Base64: Ym9iQGhidG4uaW86SDBsYmVydG9uU2Nob29s0Tgh ob@dyDiatord(https://discord.com/app) bob@dylan:~\$ API_HOST=0.0.0.0 API_PORT=5000 AUTH_TYPE=basic_auth python3 -m api. * Running on http://0.0.0.0:5000/ (Press CTRL+C to quit)

In a secoling Renfile (users/my_profile)

```
bob@dylan:~$ curl "http://0.0.0.0:5000/api/v1/status"
            (/)status": "OK"
       bob@dylan:~$
 mbob@dyH@me48 curl "http://0.0.0.0:5000/api/v1/users"
             "error": "Unauthorized"
                      My Planning(/planning/me)
       bob@dylan:~$
       bob@dylan:~$ curl "http://0.0.0.0:5000/api/v1/users" -H "Authorization: Test"
                      Projects(/projects/current)
             "error": "Forbidden"
       }

✓ bob@dyQArRevSews I can make(/corrections/to review)

       bob@dylan:~$ curl "http://0.0.0.0:5000/api/v1/users" -H "Authorization: Basic tes
       t"
  ? {
                      Evaluation quizzes(/dashboards/my current evaluation quizzes)
             "error": "Forbidden"
       }
       bob@dylan:~$
       bob@dylan:~$ curl "http://0.0.0.0:5000/api/v1/users" -H "Authorization: Basic Ym9
ioghidG4rigw865Bbs9777VdG9d82NVb5ygrigylums)
  Ë
                  "Concepts/-09-25 01:55:17",
                  "email": "bob@hbtn.io",
                  "first_name": null,
                  " Conference of panal dash to ard find the conference of the confe
                  "last_name": null,
                  "updated_at": "2017-09-25 01:55:17"
                     Servers(/servers)
           }
       bob@dylan:~$
                      Sandboxes(/user_containers/current)
   Repo:
                      Tools(/dashboards/my tools)

    GitHub repository: alx-backend-user-data

                 Directory: 0x01-Basic_authentication
Video on demand(/dashboards/videos)
File: api/v1/auth/basic_auth.py
 田
                                                  >_ Get a sandbox
        Check submission
                                                                                             View results
                      Peers(/users/peers)
    12. Basic - Allow password with ":"
                                                                                                                                                                                                                  #advanced
6
                      Discord(https://discord.com/app)
        Score: 100.0% (Checks completed: 100.0%)
    Improve the method def extract_user_credentials(self,
    decoded_base64_authorization_header) to allow password with :.
    My Profile(/users/my_profile) In the first terminal:
```

```
bob@dylan:~$ cat main_100.py
 #!/usr/bin/env python3
   ""("/) Main 100
   import base64
from apgmed auth basic_auth import BasicAuth
   from models.user import User
  """ cnNeyatPelananingsel√plananaingvlme)
   user_email = "bob100@hbtn.io"
   user_clear_pwd = "HOlberton:School:98!"
        Projects(/projects/current)
   user = User()
   user.email = user_email
✓ user. pQAs Shewiews I was nmake (/copreditions/to review)
   print("New user: {}".format(user.id))
   user.save()
        Evaluation quizzes(/dashboards/my current evaluation quizzes)
   basic_clear = "{}:{}".format(user_email, user_clear_pwd)
   print("Basic Base64: {}".format(base64.b64encode(basic_clear.encode('utf-8')).dec
   ode("utf-8")))
Pob@dyGurriculums(/dashboards/my_curriculums)
   bob@dylan:~$ API_HOST=0.0.0.0 API_PORT=5000 ./main_100.py
   New user: 5891469b-d2d5-4d33-b05d-02617d665368
Basic Garge Quts (GARICAPITATE) GhidG4uaW86SDBsYmVydG9u0lNjaG9vbDo50CE=
   bob@dylan:~$
   bob@dylan:~$ API_HOST=0.0.0.0 API_PORT=5000 AUTH_TYPE=basic_auth python3 -m api.v
 Lapp Conference rooms(/dashboards/video_rooms)
    * Running on http://0.0.0.0:5000/ (Press CTRL+C to quit)
        Servers(/servers)
 In a second terminal:
>_
        Sandboxes(/user_containers/current)
        Tools(/dashboards/my tools)
冊
        Video on demand(/dashboards/videos)
        Peers(/users/peers)
        Discord(https://discord.com/app)
0
```

```
bob@dylan:~$ curl "http://0.0.0.0:5000/api/v1/status"
    (//)status": "OK"
  bob@dylan:~$
mbob@dyHame4 curl "http://0.0.0.0:5000/api/v1/users"
     "error": "Unauthorized"
        My Planning(/planning/me)
  bob@dylan:~$
  bob@dylan:~$ curl "http://0.0.0.0:5000/api/v1/users" -H "Authorization: Test"
        Projects(/projects/current)
     "error": "Forbidden"

✓ bob@dyQArRevSews I can make(/corrections/to review)

  bob@dylan:~$ curl "http://0.0.0.0:5000/api/v1/users" -H "Authorization: Basic tes
  t"
?{
        Evaluation quizzes(/dashboards/my current evaluation quizzes)
     "error": "Forbidden"
  bob@dylan:~$
  bob@dylan:~$ curl "http://0.0.0.0:5000/api/v1/users" -H "Authorization: Basic Ym9
INTAWOCHTIGULUMS/GSBBSPART/BG9VOENGAG9VDBJ50CE="
盲
       "Creatents/concepts/-09-25 01:55:17",
       "email": "bob@hbtn.io",
       "first_name": null,
       "Lonferencegogans/dashbaards/yide20_foo688)7495",
       "last_name": null,
       "updated_at": "2017-09-25 01:55:17"
}, Servers(/servers)
       "created_at": "2017-09-25 01:59:42",
       "Shandboxes (Juser of botainess/current)
       "first_name": null,
       "id": "5891469b-d2d5-4d33-b05d-02617d665368",
       "Taxots (videnet boards I'my tools)
       "updated_at": "2017-09-25 01:59:42"
Video on demand(/dashboards/videos)
  bob@dylan:~$
```

Peers(/users/peers)

- GitHub repository: alx-backend-user-data
- Diractoryi(MXB1:7Rasisra.uthe/atji)ation
 - File: api/v1/auth/basic_auth.py

Check submission > Get a sandbox View results

<u>1</u> 3. Ro	equire auth with stars	#advanced
(/) Scor	re: 73.75% (<i>Cheeks completed: 100.0%</i>)	
nnpropaths.	<pre>Home(/) ve def require_auth(self, path, excluded_paths) by allowing</pre>	* at the end of excluded
= xamp	ole My rP lanningHplanning/me) "/api/v1/stat*"]:	
•	/api/v1/users will return True	
ų.	/Arrojects/projects/Uwetent) False	
•	/api/v1/stats will return False	
~	QA Reviews I can make(/corrections/to_review)	
Repo:		
•	Gittubuttorstorzes(Mash668nds/Hsgrcthtent_evaluation_quizzes) Directory: 0x01-Basic_authentication	
•	File: api/v1/auth/auth.py	
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	Servers(/servers)	
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