

Access the Armor API System via an API token - Python. mobile.phone

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Access the Armor API System via an API token (Python)

You can use the API tokenization feature in the Armor Management Portal (AMP) to create an API key. This key will help you log into the Armor API system.

Step 1: Create an API key

When you create an API Key, you will generate a **Secret Key**. This key does not expire; you must securely store this key because Armor cannot retrieve this key for you.



If you lose the **Secret Key**, then you must delete the corresponding API Key in AMP. Afterwards, you must create a new API Key.

Armor cannot retrieve your **Secret Key**.

1. In the Armor Management Portal (AMP), in the left-side navigation, click **Account**.
2. Click **Users**.
3. Click **API Keys**.
4. Click the plus icon.
5. Enter a descriptive name, and then click **Create Key**.
6. Copy the **Key ID** and **Secret Key**.
7. Click **Close**.
8. The **API Keys** table will display a new entry.

Step 2: Authenticate into the Armor API system

To authenticate, you need to build a header with the following components:

Parameter	Description
app_id	Enter the Key ID generated from AMP.
secret_key	Enter the Secret Key generated from AMP.
request_path	
http_method	Enter POST .
timestamp	Enter a Unix time stamp within 5 minutes of the current time.
nonce	Enter a unique ID. <ul style="list-style-type: none">• This ID cannot be longer than 128 characters.• This ID cannot contain a colon (:).

Review sample code for Python 2.7.13 (Post Request):

```

def post_requests_apiKey_payload(self, path = "/example/anywhere/", body = ):
    app_id = "<api_key_id>"
    secret_key = "<secret_key>"
    request_path = urlparse.urlparse(path).path
    http_method = "POST"
    timestamp = int(time.time())
    nonce = uuid.uuid4()
    hash_obj = hashlib.sha512(json.dumps(body)).digest()
    request_body = base64.b64encode(hash_obj)
    content = (app_id, http_method, request_path, str(nonce), str(timestamp), request_body)
    request_data = ''.join(content)
    mc = hmac.new(secret_key, request_data, hashlib.sha512)
    signature = base64.b64encode(mc.digest())
    auth_header = "ARMOR-PSK " + str(app_id) + ':' + str(signature) + ':' + str(nonce) + ':' + str(
(timestamp)
    request_header = {
        'Content-Type': 'application/json',
        "Authorization": auth_header
    }
    response = requests.post(self._url(path), data=json.dumps(body), headers=request_header)
    print (response.status_code)
    return response

```

Review sample code for Python 3.6.5 (Post Request):

```

def _post_requests_apiKey_payload(self, path="/example/anywhere", body = ):
    app_id = "<api_key_id>"
    secret_key = "<secret_key>"
    request_path = urlparse(path).path
    http_method = "POST"
    timestamp = int(time.time())
    nonce = uuid.uuid4()
    hash_obj = hashlib.sha512(bytes(json.dumps(body), 'utf-8'))
    request_body = base64.standard_b64encode(hash_obj.digest())
    content = (app_id, http_method, request_path, str(nonce), str(timestamp), request_body.decode())
    request_data = ''.join(content)
    mc = hmac.new(bytes(secret_key, 'utf-8'), bytes(request_data, 'utf-8'), hashlib.sha512)
    signature = base64.standard_b64encode(mc.digest())
    auth_header = "ARMOR-PSK " + str(app_id) + ':' + str(signature.decode('utf-8')) + ':' + str(
nonce) + ':' + str(timestamp)
    request_header = {
        'Content-Type': 'application/json',
        "Authorization": auth_header
    }
    response = requests.post(self._url(path), data=json.dumps(body), headers=request_header)
    print (response.status_code)
    return response

```

Step 3: Make an API Call

To learn about the different calls that you can make, see [Armor API Guide](#).

Related Documentation

- To learn about the different calls that you can make, see [Armor API Guide](#).
- To learn how to create an API key or to learn a different way to access the Armor API system, see [Pre-Shared Key Authentication Method - Legacy](#).



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