

# Access the Armor API System via an API token (Postman and JavaScript)

## Overview

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

1. In your Postman application, create a new GET request with the following endpoint: **https://api.armor.com/roles**
2. Click **Headers**.
3. Under **Key**, select **Authorization**.
4. In **Value**, enter `{{hmacAuthHeader}}`.
5. Under **Key**, select **Content-Type**.
6. In **Value**, enter `application/json`.
7. Click **Pre-request Script**.
8. Enter the script below with the following updated parameters:

Parameter	Description
APP_ID	Enter the <b>Key ID</b> generated from AMP. <div style="border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> In the example below, replace <code>&lt;use the api key id&gt;</code> with your key ID.</div>
SECRET_KEY	Enter the <b>Secret Key</b> generated from AMP. <div style="border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> In the example below, replace <code>&lt;use the secret key&gt;</code> with your secret key.</div>
nonce	Enter a unique ID. <ul style="list-style-type: none"><li>• This ID cannot be longer than 128 characters.</li><li>• This ID cannot contain a colon (:).</li></ul>
timestamp	Enter a Unix time stamp within 5 minutes of the current time.

```

function getPath(url) {
  var pathRegex = /.+?\:\/\/\./.+?(\.+.+)?(?:#\|\/\?|\$)/;
  var result = url.match(pathRegex);
  return result && result.length > 1 ? result[1] : '';
}

function getQueryString(url) {
  var arrSplit = url.split('?');
  return arrSplit.length > 1 ? url.substring(url.indexOf('?')+1) : '';
}

function getAuthHeader(httpMethod, requestUrl, requestBody) {
  *var APP_ID = '<use the api key id>';*
  *var SECRET_KEY = '<use the secret key>';*
  var AUTH_TYPE = 'ARMOR-PSK';
  var requestPath = getPath(requestUrl).replace('https', 'http');
  var queryString = getQueryString(requestUrl);
  if (httpMethod == 'GET' || !requestBody) {
    requestBody = '';
  } else {
    requestBody = requestBody.toString();
    requestBody = CryptoJS.enc.Base64.stringify(CryptoJS.SHA512(requestBody));
  }
  var timestamp = Math.round(new Date().getTime() / 1000);
  var nonce = timestamp;
  var requestData = [APP_ID, httpMethod, requestPath, nonce, timestamp, requestBody].join("");
  var mac = CryptoJS.HmacSHA512(requestData, SECRET_KEY);
  var signature = CryptoJS.enc.Base64.stringify(mac);
  var authHeader = AUTH_TYPE + ' ' + APP_ID + ':' + signature + ':' + nonce + ':' + timestamp;
  return authHeader;
}
postman.setEnvironmentVariable('hmacAuthHeader', getAuthHeader(request['method'], request['url'], request
['data']));

```

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## Step 3: Make an API Call

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

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## 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 [Log into Armor API](#).
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