



# netumo

API MANUAL

[www.netumo.com](http://www.netumo.com)

V1.0

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# Introduction

This is the Netumo API Manual where you will find how the major Netumo functions work. The major functions described in detail in this API Manual are the Login, Getting the Monitor Status and Creating a Simple Monitor.

Full list on the available REST API methods is available here:

<https://api.netumo.app/Help>

# Login

## Description

Netumo API uses OAuth2 as Authentication mechanism which relies on a Bearer token sent with each request in the Authorization header. To log in, you have to supply the username/email and your password. However, if the login credentials are not correct, an error message will be returned asking you to retry logging in. In the attached sample you supply username and password and once you have logged in, your account information will be displayed.

## Authentication Endpoint

URL: <https://api.netumo.app/TOKEN>

Type (verb): POST

Content Type: application/x-www-form-urlencoded

Body: grant\_type=password&username=<USERNAME>&password=<PASSWORD>

Returns: OAuth Bearer Token (JSON)

## Javascript source code

```
<html>
<head>
  <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
</head>

<body>
<div class="row">
  <div class="col-md-6">
    <h4>Login </h4>
    <div id="loginDiv">
      <div class="form-group">
        <label for="txtEmail">Email Address </label>
        <input type='email' name="email" id="loginEmail" class="form-control">
      </div>
      <div class="form-group">
        <label>Password</label>
        <input type="password" id="loginPwd" class="form-control">
      </div>
      <button id="btnLogin" class="btn btn-default">Submit</button>
    </div>
  </div>
</div>

<div class="row">
  <div>
    <label id="msg"></label>
  </div>
</div>
<script>
  $(document).ready(function () {
    $("#btnLogin").on('click', function () {
      $.ajax(
        {
          url: "/TOKEN",
          type: "POST",
          data: $.param({ grant_type: 'password', username: $("#loginEmail").val(), password:
$("#loginPwd").val() }),
          headers: { 'Content-Type': 'application/x-www-form-urlencoded' },
          success: function (resp) {
            sessionStorage.setItem('userName', resp.userName);
            sessionStorage.setItem('accessToken', resp.access_token);
            var authHeaders = {};
            authHeaders.Authorization = 'Bearer ' + resp.access_token;
            //on success we get account details using the returned token
            $.ajax({
              url: "/api/Info",
              type: "GET",
              headers: authHeaders,
              success: function (response) {
                $("#loginEmail").val("");
                $("#loginPwd").val("");
                alert("Login Success!");
                $("#msg").text(JSON.stringify(response));
              },
              error: function (jqXHR, textStatus, errorThrown) {
                if (jqXHR.status == 417)
                  alert("Please verify your Email Address");
                else if (jqXHR.status == 401)
                  alert("Access Denied");
                else
                  alert(jqXHR.status);
              }
            });
          }
        });
  });
</script>
```

```
    },
    error: function () {
        alert("Login Failed!");
        $("#msg").text("Authentication failed");
    }
});
});
})
})
</script>
</body>
</html>
```

## PHP source code

```
<html>
<head>
  <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
</head>

<body>
<div class="row">
  <div class="col-md-6">
    <form action="/PHPlogin.php" method="POST">
      <h4>Login </h4>
      <div id="loginDiv">
        <div class="form-group">
          <label for="txtEmail">Email Address </label>
          <input type='email' name="username" id="loginEmail" class="form-control">
        </div>
        <div class="form-group">
          <label>Password</label>
          <input type="password" name = "password" id="loginPwd" class="form-control">
        </div>
        <button id="btnLogin" class="btn btn-default">Submit</button>
      </div>
    </form>
  </div>
</div>

<div class="row">
  <div>
    <label id="msg"></label>
  </div>
</div>

<?php
if ((isset($_POST['username']) && $_POST['username']!="") && (isset($_POST['password']) &&
$_POST['password']!="")){
  $username = $_POST['username'];
  $password = $_POST['password'];

  $data = array(
    'grant_type' => 'password',
    'username' => $username,
    'password' => $password
  );
  $payload = http_build_query($data);

  $url = "https://api.netumo.app/TOKEN";
  $client = curl_init($url);
  curl_setopt($client, CURLOPT_POSTFIELDS, $payload);
  curl_setopt($client, CURLOPT_HTTPHEADER, array('Content-Type: application/x-www-form-
urlencoded'));
  curl_setopt($client, CURLOPT_RETURNTRANSFER, true);

  $response = curl_exec($client);
  echo curl_error($client);
  $result = json_decode($response);
  $access_token = $result->access_token;
  $url1 = "https://api.netumo.app/api/Info";

  $client = curl_init($url1);
  curl_setopt($client, CURLOPT_URL, $url1);
  curl_setopt($client, CURLOPT_RETURNTRANSFER, true);

  $headers = array(
    "Accept: application/json",
    "Authorization: Bearer $access_token",
```

```
    );
    curl_setopt($client, CURLOPT_HTTPHEADER, $headers);

$response = curl_exec($client);
echo curl_error($client);
$result = json_decode($response);

echo "<table>";
echo "<tr><td></td><td>".$response."</td></tr>";
echo "</table>";
}
?>

</body>
</html>
```



# Get monitor status

## Description

To get the monitor details, you first have to log in to your Netumo account. After logging in, you can see all your monitor details such as name, notification details, last checks, etc.

## REST Endpoint

URL: <https://api.netumo.app/api/Website>

Type (verb): GET

Content Type: application/json

## Monitor Status Codes

| Name            | Code | Description                                       |
|-----------------|------|---|
| <b>Failed</b>   | 0    | Monitor is in a failed state, site is down        |
| <b>OK</b>       | 1    | Site is up and OK                                 |
| <b>NoMatch</b>  | 2    | Site is up but content does not match expected    |
| <b>None</b>     | 3    | No state set. Please save or force a recheck      |
| <b>Timeout</b>  | 4    | Site returned a timeout                           |
| <b>Checking</b> | 5    | Site is being checked, please try again           |
| <b>Disabled</b> | 6    | Monitor is disabled. Please enable again manually |

## Javascript Source Code

```
<html>
<head>
  <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
</head>

<body>
<div class="row">
  <div class="col-md-6">
    <h4>Login </h4>
    <div id="loginDiv">
      <div class="form-group">
        <label for="txtEmail">Email Address </label>
        <input type='email' name="email" id="loginEmail" class="form-control">
      </div>
      <div class="form-group">
        <label>Password</label>
        <input type="password" id="loginPwd" class="form-control">
      </div>
      <button id="btnLogin" class="btn btn-default">Submit</button>
    </div>
  </div>
</div>

<div class="row">
  <div>
    <label id="msg"></label>
  </div>
</div>
<script>
  $(document).ready(function () {
    $("#btnLogin").on('click', function () {
      $.ajax(
        {
          url: "https://api.netumo.app/TOKEN",
          type: "POST",
          data: $.param({ grant_type: 'password', username: $("#loginEmail").val(), password:
$("#loginPwd").val() }),
          headers: { 'Content-Type': 'application/x-www-form-urlencoded' },
          success: function (resp) {
            sessionStorage.setItem('userName', resp.userName);
            sessionStorage.setItem('accessToken', resp.access_token);
            var authHeaders = {};
            authHeaders.Authorization = 'Bearer ' + resp.access_token;
            $.ajax({
              url: "https://api.netumo.app/api/Website",
              type: "GET",
              headers: authHeaders,
              success: function (response) {
                $("#loginEmail").val("");
                $("#loginPwd").val("");
                alert("Success!");
                $("#msg").text(JSON.stringify(response));
              },
              error: function (jqXHR, textStatus, errorThrown) {
                if (jqXHR.status == 417)
                  alert("Please verify your Email Address");
                else if (jqXHR.status == 401)
                  alert("Access Denied");
                else
                  alert(jqXHR.status);
              }
            });
          },
          error: function () {

```

```
        alert("Login Failed!");
        $("#msg").text("Authentication failed");
    }
}
});
}
```

## PHP Source Code

```
<html>
<head>
  <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
</head>

<body>
<div class="row">
  <div class="col-md-6">
    <form action = "/PHPshowMonitor.php" method = "POST">
      <h4>Login </h4>
      <div id="loginDiv">
        <div class="form-group">
          <label for="txtEmail">Email Address </label>
          <input type='email' name="username" id="loginEmail" class="form-control">
        </div>
        <div class="form-group">
          <label>Password</label>
          <input type="password" name = "password" id="loginPwd" class="form-control">
        </div>
        <button id="btnLogin" class="btn btn-default">Submit</button>
      </div>
    </form>
  </div>
</div>

<div class="row">
  <div>
    <label id="msg"></label>
  </div>
</div>

<?php
if ((isset($_POST['username']) && $_POST['username']!="") && (isset($_POST['password']) &&
$_POST['password']!="")){
  $username = $_POST['username'];
  $password = $_POST['password'];

  $data = array(
    'grant_type' => 'password',
    'username' => $username,
    'password' => $password
  );
  $payload = http_build_query($data);

  $url = "https://api.netumo.app/TOKEN";
  $client = curl_init($url);
  curl_setopt($client, CURLOPT_POSTFIELDS, $payload);
  curl_setopt($client, CURLOPT_HTTPHEADER, array('Content-Type: application/x-www-form-
urlencoded'));
  curl_setopt($client, CURLOPT_RETURNTRANSFER, true);

  $response = curl_exec($client);
  echo curl_error($client);
  $result = json_decode($response);
  $access_token = $result->access_token;
  $url1 = "https://api.netumo.app/api/Website";

  $client = curl_init($url1);
  curl_setopt($client, CURLOPT_URL, $url1);
  curl_setopt($client, CURLOPT_RETURNTRANSFER, true);

  $headers = array(
    "Accept: application/json",
    "Authorization: Bearer $access_token",
```

```
    );  
    curl_setopt($client, CURLOPT_HTTPHEADER, $headers);  
  
    $response = curl_exec($client);  
    echo curl_error($client);  
    $result = json_decode($response);  
  
    echo "<table>";  
    echo "<tr><td></td><td>".$response."</td></tr>";  
    echo "</table>";  
  }  
?>  
</body>  
</html>
```

# Creating a Monitor

## Description

To add a monitor on Netumo, first, log in to your account, then enter details including Name and URL, choose a protocol, and customise your notification settings for your new monitor to be created.

## Endpoints

URL: <https://api.netumo.app/api/Website/AddSimpleMonitor>

Type (verb): POST

Content Type: application/json

Body: {

    Name: <NAME>,

    Protocol: <PROTOCOL HTTP/HTTPS etc>,

    Url: <Full URL>,

    EmailEnabled: <true or false>,

    TwitterEnabled: <true or false>,

    SlackEnabled: <true or false>,

    MicrosoftTeamsEnabled: <true or false>,

    TelegramEnabled: <true or false>,

    SuppressSuccessEmail: <true or false>

}

## Javascript Source Code

```
<html>
<head>
  <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
</head>

<body>
<div class="row">
  <div class="col-md-6">
    <h4>Login </h4>
    <div id="loginDiv">
      <div class="form-group">
        <label for="txtEmail">Email Address </label>
        <input type='email' name="email" id="loginEmail" class="form-control">
      </div>
      <div class="form-group">
        <label>Password</label>
        <input type="password" id="loginPwd" class="form-control">
      </div>
      <div>
        <button id="btnLogin" class="btn btn-default">Login</button>
      </div>
    </div>

    <h4>Create Monitor </h4>
    <div id="addMon">
      <div class="form-group">
        <label>Monitor Name</label>
        <input type="text" id="Name" class="form-control">
      </div>
      <div class="form-group">
        <label>Protocol</label>
        <input type="text" id="Protocol" class="form-control">
      </div>
      <div class="form-group">
        <label>URL</label>
        <input type="url" id="URL" class="form-control">
      </div>
      <div class="form-group">
        <label>Email notifications</label>
        <input type="checkbox" id="EmailEnabled" class="form-control">
      </div>
      <div class="form-group">
        <label>Twitter notifications</label>
        <input type="checkbox" id="TwitterEnabled" class="form-control">
      </div>
      <div class="form-group">
        <label>Slack notifications</label>
        <input type="checkbox" id="SlackEnabled" class="form-control">
      </div>
      <div class="form-group">
        <label>Microsoft Teams notifications</label>
        <input type="checkbox" id="MicrosoftTeamsEnabled" class="form-control">
      </div>
      <div class="form-group">
        <label>Telegram notifications</label>
        <input type="checkbox" id="TelegramEnabled" class="form-control">
      </div>
      <div>
        <button id="btnSubmit" class="btn btn-default">Create</button>
      </div>
    </div>
  </div>
</div>
<div class="row">
```

```

<div>
  <label id="msg"></label>
</div>
</div>

<script>
$(document).ready(function () {
  $("#btnSubmit").on('click', function () {
    var model = {
      Name: $("#Name").val(),
      Protocol: $("#Protocol").val(),
      Url: $("#URL").val(),
      EmailEnabled: $('#EmailEnabled').is(':checked') ? "true" : "false",
      TwitterEnabled: $('#TwitterEnabled').is(':checked') ? "true" : "false",
      SlackEnabled: $('#SlackEnabled').is(':checked') ? "true" : "false",
      MicrosoftTeamsEnabled: $('#MicrosoftTeamsEnabled').is(':checked') ? "true" : "false",
      TelegramEnabled: $('#TelegramEnabled').is(':checked') ? "true" : "false",
      SuppressSuccessEmail: 'false'
    }

    $.ajax({
      url: "https://api.netumo.app/api/Website/AddSimpleMonitor",
      type: "POST",
      headers: { 'Content-Type': 'application/json', 'Authorization' : 'Bearer ' +
sessionStorage.getItem('accessToken') },
      dataType: 'json',
      data: JSON.stringify(model),
      success: function (response) {
        $("#Name").val("");
        $("#Protocol").val("");
        $("#URL").val("");
        $("#EmailEnabled").val("");
        $("#TwitterEnabled").val("");
        $("#SlackEnabled").val("");
        $("#MicrosoftTeamsEnabled").val("");
        $("#TelegramEnabled").val("");

        alert("Monitor Created!");
        $("#msg").text(JSON.stringify(response));
      },
      error: function (jqXHR, textStatus, errorThrown) {
        if (jqXHR.status == 417)
          alert("Please verify your Email Address");
        else if (jqXHR.status == 401)
          alert("Access Denied");
        else
          alert(jqXHR.status);
      }
    });
  });

  $("#btnLogin").on('click', function () {
    $.ajax({
      url: "https://api.netumo.app/TOKEN",
      type: "POST",
      data: $.param({ grant_type: 'password', username: $("#loginEmail").val(), password:
$("#loginPwd").val() }),
      headers: { 'Content-Type': 'application/x-www-form-urlencoded' },
      success: function (resp) {
        sessionStorage.setItem('userName', resp.userName);
        sessionStorage.setItem('accessToken', resp.access_token);

        alert("Login Success");
      },
      error: function () {

```



```
        alert("Login Failed!");
        $("#msg").text("Authentication failed");
    }
});
});
</script>
</body>
</html>
```

## PHP Source Code

```
<?php
session_start();
?>

<html>
<head>
    <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
</head>

<body>
<div class="row">
    <div class="col-md-6">
        <form action = "/PHPCreateMonitor.php" method = "POST">
            <h4>Login </h4>
            <div id="loginDiv">
                <div class="form-group">
                    <label for="txtEmail">Email Address </label>
                    <input type='email' name="username" id="loginEmail" class="form-
control">

                </div>
                <div class="form-group">
                    <label>Password</label>
                    <input type="password" name="password" id="loginPwd" class="form-
control">

                </div>
                <button id="btnLogin" class="btn btn-default">Login</button>
            </div>
        </form>

        <form action = "/PHPCreateMonitor.php" method = "POST">
            <h4>Create Monitor</h4>
            <div id="addMon">
                <div class="form-group">
                    <label>Monitor Name</label>
                    <input type="text" name = "name" id="Name" class="form-control">
                </div>
                <div class="form-group">
                    <label>Protocol</label>
                    <input type="text" name = "protocol" id="Protocol" class="form-
control">

                </div>
                <div class="form-group">
                    <label>URL</label>
                    <input type="url" name = "url" id="URL" class="form-control">
                </div>
                <div class="form-group">
                    <label>Email notifications</label>
                    <input type="checkbox" name = "emailenabled" id="EmailEnabled"
class="form-control">
                </div>
                <div class="form-group">
                    <label>Twitter notifications</label>
                    <input type="checkbox" name = "twitterenabled"
id="TwitterEnabled" class="form-control">
                </div>
                <div class="form-group">
                    <label>Slack notifications</label>
                    <input type="checkbox" name = "slackenabled" id="SlackEnabled"
class="form-control">
                </div>
            </div>
        </form>
    </div>
</div>
```

```

        <div class="form-group">
            <label>Microsoft Teams notifications</label>
            <input type="checkbox" name = "microsoftteamsenabled"
id="MicrosoftTeamsEnabled" class="form-control">
        </div>
        <div class="form-group">
            <label>Telegram notifications</label>
            <input type="checkbox" name = "telegramenabled"
id="TelegramEnabled" class="form-control">
        </div>
        <div>
            <button id="btnSubmit" name = "btnSubmit" class= "btn btn-
default">Create</button>
        </div>
    </div>
</form>
</div>
</div>
<div class="row">
    <div>
        <label id="msg"></label>
    </div>
</div>
<?php
    if ((isset($_POST['username']) && $_POST['username']!="") &&
(isset($_POST['password']) && $_POST['password']!="")){
        $username = $_POST['username'];
        $password = $_POST['password'];

        $data = array(
            'grant_type' => 'password',
            'username' => $username,
            'password' => $password
        );
        $payload = http_build_query($data);

        $url = "https://api.netumo.app/TOKEN";
        $client = curl_init($url);
        curl_setopt($client, CURLOPT_POSTFIELDS, $payload);
        curl_setopt($client, CURLOPT_HTTPHEADER, array('Content-Type: application/x-
www-form-urlencoded'));
        curl_setopt($client, CURLOPT_RETURNTRANSFER, true);

        $response = curl_exec($client);
        echo curl_error($client);
        $result = json_decode($response);
        $access_token = $result->access_token;

        $_SESSION["authtoken"] = $access_token;
    }

    if(isset($_POST["btnSubmit"])){
        $name = $_POST['name'];
        $protocol = $_POST['protocol'];
        $urlVar = $_POST['url'];
        $email = isset($_POST['emailenabled']) ? $_POST['emailenabled'] : 'false';
        $twitter = isset($_POST['twitterenabled']) ? $_POST['twitterenabled'] :
'false';
        $slack = isset($_POST['slackenabled']) ? $_POST['slackenabled'] : 'false';
    }
}

```

```

    $microsoftteams = isset($_POST['microsoftteamsenabled']) ?
$_POST['microsoftteamsenabled'] : 'false';
    $telegram = isset($_POST['telegramenabled']) ? $_POST['telegramenabled'] :
'false';

    if($email == 'on'){
        $email = 'true';
    }
    if($twitter == 'on'){
        $twitter = 'true';
    }
    if($slack == 'on'){
        $slack = 'true';
    }
    if($microsoftteams == 'on'){
        $microsoftteams = 'true';
    }
    if($telegram == 'on'){
        $telegram = 'true';
    }

    $postRequest = array(
        'Name' => $name,
        'Protocol' => $protocol,
        'URL' => $urlVar,
        'EmailEnabled' => $email,
        'TwitterEnabled' => $twitter,
        'SlackEnabled' => $slack,
        'MicrosoftTeamsEnabled' => $microsoftteams,
        'TelegramEnabled' => $telegram,
        'SuppressSuccessEmail' => 'false',
    );

    $url1 = "https://api.netumo.app/api/Website/AddSimpleMonitor";
    $client = curl_init($url1);
    curl_setopt($client, CURLOPT_POSTFIELDS, json_encode($postRequest));
    curl_setopt($client, CURLOPT_RETURNTRANSFER, true);

    $headers = array(
        "Accept: application/json",
        "Content-Type: application/json",
        "Authorization: Bearer " . $_SESSION["authtoken"],
    );
    curl_setopt($client, CURLOPT_HTTPHEADER, $headers);

    $response = curl_exec($client);
    echo curl_error($client);
    $result = json_decode($response);
    echo "Check on your Netumo account to see your new Monitor";
}
?>

```

# Sample Response Headers

| Phase                            | Login                          | Monitor Status                 | Create Monitor                 |
|----------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Access-Control-Allow-Credentials | true                           | true                           | true                           |
| Access-Control-Allow-Origin      | null                           | null                           | null                           |
| Cache-Control                    | no-cache                       | no-cache                       | no-cache                       |
| Content-Encoding                 | gzip                           | gzip                           | gzip                           |
| Content-Type                     | application/Json;charset=UTF-8 | application/Json;charset=UTF-8 | application/Json;charset=UTF-8 |

# Sample Request Headers

| Phase           | Login                             | Creating Monitor           | Monitor status                                 |
|-----------------|-----------------------------------|----------------------------|--|
| Accept          | */*                               | */*                        | application/json, text/javascript, */*; q=0.01 |
| Accept-Encoding | gzip, deflate, br                 | gzip, deflate, br          | gzip, deflate, br                              |
| Accept-Language | en-GB,en-US;q=0.9,en;q=0.8        | en-GB,en-US;q=0.9,en;q=0.8 | en-GB,en-US;q=0.9,en;q=0.8                     |
| Authorization   | N/A                               | Bearer <<TOKEN>>           | Bearer <<TOKEN>>                               |
| Connection      | keep-alive                        | keep-alive                 | keep-alive                                     |
| Content-Length  | 77                                | N/A                        | 228  |
| Content-Type    | application/x-www-form-urlencoded | N/A                        | application/json                               |
| Host            | api.netumo.app                    | api.netumo.app             | api.netumo.app                                 |
| Origin          | null                              | null                       | null   |