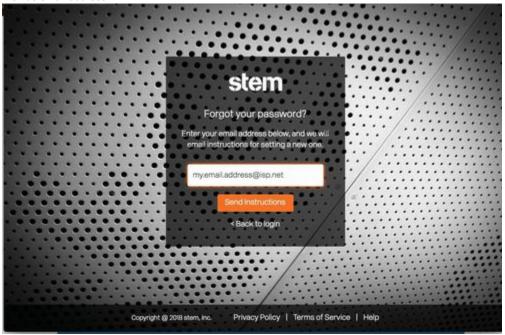
# User Guide: Getting Started with Stem Developer API

# Step 1: Obtain application password

- 1. Navigate to https://app.stem.com/reset\_password
- 2. Provide email address



- 3. Navigate to email from powerscope@stem, with Subject: "PowerScope Reset Password"
- 4. Click on the "Create Password" button
- 5. In the webpage, provide a new password:



6. Click the "< Back to login" link and provide credentials to login



7. Accept the Cloud Services Agreement



8. PLEASE NOTE: If the user *only* has access to the API, a 500 error will be displayed ater the Cloud Services Agreement is accepted. The error can be ignored, as, contrary to first impression, the error is related only to the application access, and not the acceptance of the agreement.

# Step 2: Obtain API KEY via API call

NOTE: Due to an unresolved issue, for the time being, the "application identifer" must be a site location code to which the account has access.

```
curl -X POST "https://app.stem.com/powerapi/api_key/" \
  -F 'app_id=<application idenitfier>'\
  -F 'username=<username or email address>' \
  -F 'password=<password>'
```

```
{"api_key": "10d75621524f624d2c0d2c8b2c541f4810d75621524f624d2c0d2c8",
"version": "v0.9"}
```

# Step 3: Utilize the API KEY in an API call

### Example 1: Obtain list of resources:

```
curl -X GET "https://app.stem.com/api/v1/clients/" \
    -H 'authorization: APIKEY
10d75621524f624d2c0d2c8b2c541f4810d75621524f624d2c0d2c8'
```

### example output:

```
{"total": 1,
    "clients": [{"link":
    "/api/v1/clients/579ea145-22e8-1eb9-94b7-a1220006641e",
    "id": "579ea145-22e8-1eb9-94b7-a1220006641e",
    "name": "Client Name"}], "page": 1}
```

# Example 2: Obtain list of data streams:

### Example 3: Obtain data for the default data stream (e.g. "MONITOR"):

```
"id": "5cd25af4-4866-11e7-2dd3-22000a1e89fb",
"name": "Site Name",
"stream_types": [
         "stream_type": "MONITOR",
         "streams": [
                 "end_datetime": "2018-03-22T00:15:00Z",
                 "kw_total_avg": 591.68474,
                 "start_datetime": "2018-03-22T00:00:01Z"
             },
                 "end_datetime": "2018-03-22T00:30:00Z",
                 "kw_total_avg": 541.6844,
                 "start datetime": "2018-03-22T00:15:01Z"
             },
            ....truncated for example...
                 "end_datetime": "2018-03-23T00:00:00Z",
                 "kw_total_avg": 599.67556,
                 "start_datetime": "2018-03-22T23:45:01Z"
        ]
    }
]
```

### Example 4: Obtain data for multitple data streams (e.g. "MONITOR" & "CONVERTER")

```
"id": "5cd25af4-4866-11e7-2dd3-22000a1e89fb",
"name": "Site Name",
"stream_types": [
        "stream_type": "MONITOR",
        "streams": [
                "end_datetime": "2018-03-22T00:15:00Z",
                "kw_total_avg": 591.68474,
                "start_datetime": "2018-03-22T00:00:01Z"
            },
                "end_datetime": "2018-03-22T00:30:00Z",
                "kw_total_avg": 541.6844,
                "start datetime": "2018-03-22T00:15:01Z"
            },
           ....truncated for example...
                "end_datetime": "2018-03-23T00:00:00Z",
                "kw_total_avg": 599.67556,
                "start_datetime": "2018-03-22T23:45:01Z"
        ]
    },
        "stream_type": "CONVERTER",
        "streams": [
                "end_datetime": "2018-03-22T00:15:00Z",
                "kw_total_avg": 10.4,
                "start_datetime": "2018-03-22T00:00:01Z"
            },
                "end_datetime": "2018-03-22T00:30:00Z",
                "kw_total_avg": 18.5,
                "start datetime": "2018-03-22T00:15:01Z"
            },
           ....truncated for example...
                "end datetime": "2018-03-23T00:00:00Z",
                "kw total avg": 12.3,
                "start_datetime": "2018-03-22T23:45:01Z"
            }
        ]
    }
]
```