

SETTING UP APPLICATION ENVIRONMENT

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INSTALLATION OF IBM CLOUD CLI

```
Administrator: Windows PowerShell
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Windows\system32> ibmcloud help
NAME:
  C:\Program Files\IBM\Cloud\bin\ibmcloud.exe - A command line tool to interact with IBM Cloud
  Find more information at: https://ibm.biz/cli-docs

USAGE:
  [environment variables] C:\Program Files\IBM\Cloud\bin\ibmcloud.exe [global options] command [arguments...] [command options]

VERSION:
  2.12.1+b8488a1-2022-10-31T15:08:10+00:00

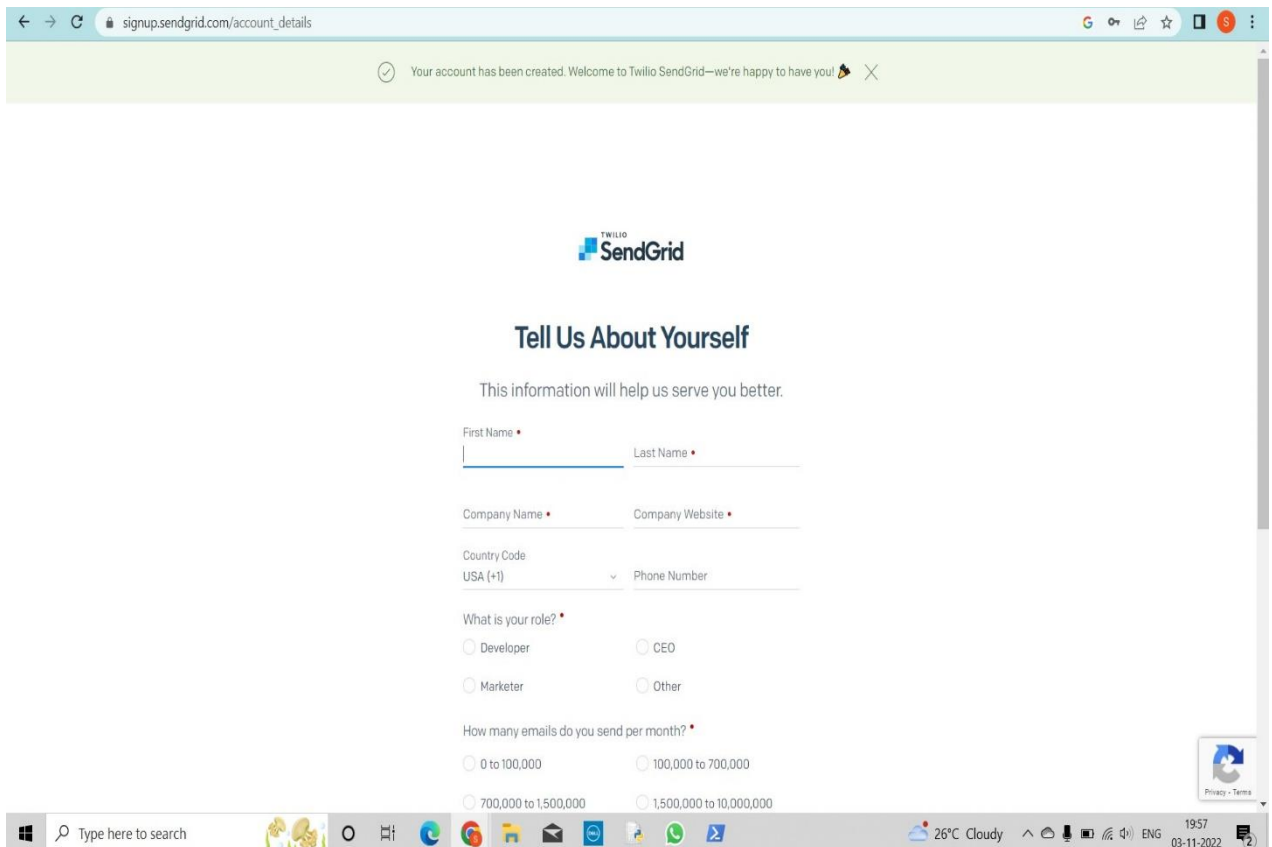
COMMANDS:
  account      Manage accounts, users, orgs and spaces
  api          Set or view target API endpoint
  billing      Retrieve usage and billing information
  catalog      Manage catalog
  cf           Run Cloud Foundry CLI with IBM Cloud CLI context
  config       Write default values to the config
  dev          Create, develop, deploy, and monitor applications
  enterprise   Manage enterprise, account groups and accounts.
  iam         Manage identities and access to resources
  login        Log user in
  logout       Log user out
  plugin       Manage plug-ins and plug-in repositories
  regions      List all the regions
  resource     Manage resource groups and resources
  resources    List all resources
  sl          Manage Classic Infrastructure services
  target       Set or view the targeted region, account, resource group, org or space
  update       Update CLI to the latest version
  version      Print the version
  help, h     Show help

Enter 'C:\Program Files\IBM\Cloud\bin\ibmcloud.exe help [command]' for more information about a command.

ENVIRONMENT VARIABLES:
  IBMCLCLOUD_COLOR=false          Do not colorize output
  IBMCLCLOUD_VERSION_CHECK=false  Do not check latest version for update
  IBMCLCLOUD_HTTP_TIMEOUT=5       A time limit for HTTP requests
  IBMCLCLOUD_API_KEY=api_key_value API Key used for login
  IBMCLCLOUD_OR_VPC_URL=url_value The custom server URL to use when obtaining an Instance Identity token and IAM token as a VPC VSI compute resource. This value will replace the default server endpoint of the VPC VSI instance identity token service.
  IBMCLCLOUD_OR_TOKEN=or_token_value Compute resource token used for login. Can either be a token string or a path to a @file.
  IBMCLCLOUD_OR_PROFILE=profile_value The name, ID, or CRN of the linked trusted IAM profile to be used when obtaining the IAM access token. If authenticating as a VPC VSI compute resource, only specifying a trusted profile CRN or ID is supported.
  IBMCLCLOUD_TRACE=true           Print API request diagnostics to stdout
  IBMCLCLOUD_TRACE_PATH=path/to/trace.log Append API request diagnostics to a log file
  IBMCLCLOUD_HOME=path/to/dir     Path to config directory

GLOBAL OPTIONS:
```

CREATING ACCOUNT IN SEND GRID SERVICE



The screenshot shows a web browser window with the URL `signup.sendgrid.com/account_details`. A green notification banner at the top states: "Your account has been created. Welcome to Twilio SendGrid—we're happy to have you! 🎉". Below the banner is the SendGrid logo and the heading "Tell Us About Yourself". A subtext reads: "This information will help us serve you better." The form contains the following fields and options:

- First Name *** and **Last Name *** (text input fields)
- Company Name *** and **Company Website *** (text input fields)
- Country Code** (dropdown menu showing "USA (+1)") and **Phone Number** (text input field)
- What is your role? *** (radio button options):
 - ☐ Developer
 - ☐ CEO
 - ☐ Marketer
 - ☐ Other
- How many emails do you send per month? *** (radio button options):
 - ☐ 0 to 100,000
 - ☐ 100,000 to 700,000
 - ☐ 700,000 to 1,500,000
 - ☐ 1,500,000 to 10,000,000

The bottom of the image shows a Windows taskbar with a search bar, application icons, and system tray information including "26°C Cloudy", "ENG", and the date "03-11-2022".

INSTALLATION OF FLASK USING PYTHON IDE

```
Command Prompt
Microsoft Windows [Version 10.0.19044.2130]
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C:\Users\Saravanan>pip --version
pip 22.3 from C:\Users\Saravanan\AppData\Local\Programs\Python\Python311\Lib\site-packages\pip (python 3.11)

C:\Users\Saravanan>pip install flask
Collecting flask
  Downloading Flask-2.2.2-py3-none-any.whl (101 kB)
----- 101.5/101.5 kB 3.2 MB/s eta 0:00:00
Collecting Werkzeug>=2.2.2
  Downloading Werkzeug-2.2.2-py3-none-any.whl (232 kB)
----- 232.7/232.7 kB 2.4 MB/s eta 0:00:00
Collecting Jinja2>=3.0
  Downloading Jinja2-3.1.2-py3-none-any.whl (133 kB)
----- 133.1/133.1 kB 4.0 MB/s eta 0:00:00
Collecting itsdangerous>=2.0
  Downloading itsdangerous-2.1.2-py3-none-any.whl (15 kB)
Collecting click>=8.0
  Downloading click-8.1.3-py3-none-any.whl (96 kB)
----- 96.6/96.6 kB 2.8 MB/s eta 0:00:00
Collecting colorama
  Downloading colorama-0.4.6-py2.py3-none-any.whl (25 kB)
Collecting MarkupSafe>=2.0
  Downloading MarkupSafe-2.1.1.tar.gz (18 kB)
  Preparing metadata (setup.py) ... done
Installing collected packages: MarkupSafe, itsdangerous, colorama, Werkzeug, Jinja2, click, flask
  DEPRECATION: MarkupSafe is being installed using the legacy 'setup.py install' method, because it does not have a 'pyproject.toml' and the 'wheel' package is not installed. pip 23.1 will enforce this behaviour change. A possible replacement is to enable the '--use-pep517' option. Discussion can be found at https://github.com/pypa/pip/issues/8559
  Running setup.py install for MarkupSafe ... done
Successfully installed Jinja2-3.1.2 MarkupSafe-2.1.1 Werkzeug-2.2.2 click-8.1.3 colorama-0.4.6 flask-2.2.2 itsdangerous-2.1.2

C:\Users\Saravanan>
```

```
IDLE Shell 3.11.0
File Edit Shell Debug Options Window Help
Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>import flask
>>>flask.__version__
'2.2.2'
>>>
```

INSTALLATION OF DOCKER

