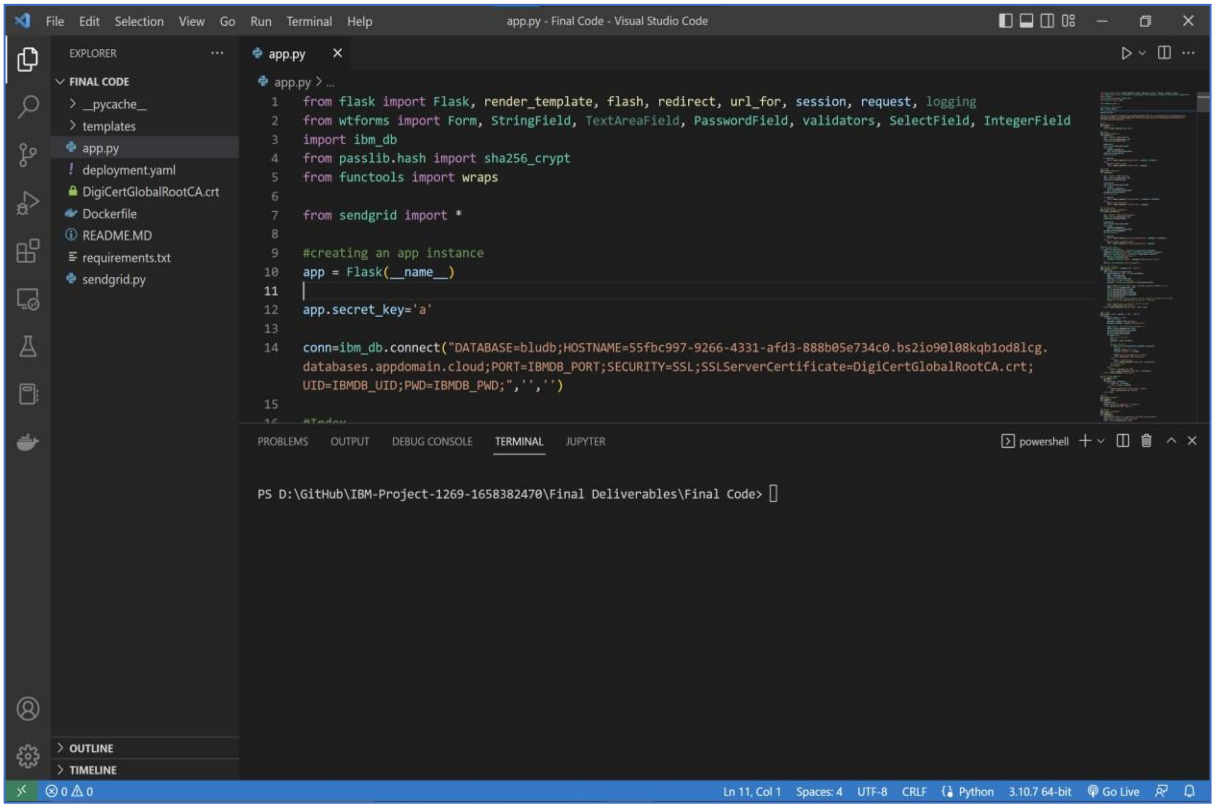
Pre-Development Phase
Setting up Application Environment

Date	25 SEPTEMBER 2022
Team ID	PNT2022TMID01394
Project Name	Inventory Management System for Retailers

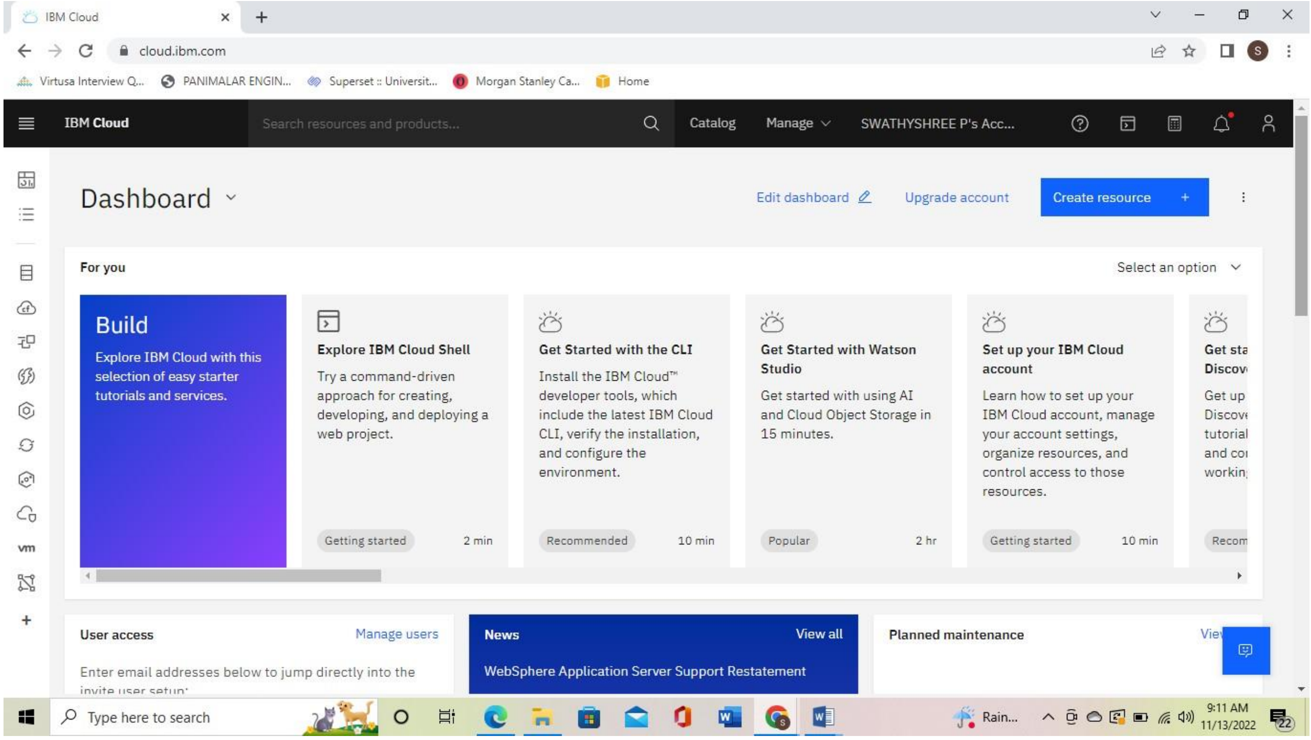
Creating Flask Project:


File Edit Selection View Go Run Terminal Help
app.py - Final Code - Visual Studio Code
EXPLORER
FINAL CODE
__pycache__
templates
app.py
deployment.yaml
DigiCertGlobalRootCA.crt
Dockerfile
README.MD
requirements.txt
sendgrid.py
app.py
app.py > ...
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
powershell
OUTLINE
TIMELINE
0 0
Ln 11, Col 1 Spaces: 4 UTF-8 CRLF Python 3.10.7 64-bit Go Live

```python
from flask import Flask, render_template, flash, redirect, url_for, session, request, logging
from wtforms import Form, StringField, TextAreaField, PasswordField, validators, SelectField, IntegerField
import ibm_db
from passlib.hash import sha256_crypt
from functools import wraps

from sendgrid import *

#creating an app instance
app = Flask(__name__)

app.secret_key='a'

conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=55fbc997-9266-4331-afd3-888b05e734c0.bs2io90l08kqb1od8lcg.
databases.appdomain.cloud;PORT=IBMDB_PORT;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;
UID=IBMDB_UID;PWD=IBMDB_PWD;",'','')

#Index
```

```
PS D:\GitHub\IBM-Project-1269-1658382470\Final Deliverables\Final Code>
```

Creation of IBM Cloud Account:



Build

Explore IBM Cloud with this selection of easy starter tutorials and services.

Explore IBM Cloud Shell

Try a command-driven approach for creating, developing, and deploying a web project.

Getting started 2 min

Get Started with the CLI

Install the IBM Cloud™ developer tools, which include the latest IBM Cloud CLI, verify the installation, and configure the environment.

Recommended 10 min

Get Started with Watson Studio

Get started with using AI and Cloud Object Storage in 15 minutes.

Popular 2 hr

Set up your IBM Cloud account

Learn how to set up your IBM Cloud account, manage your account settings, organize resources, and control access to those resources.

Getting started 10 min

Get sta Discov

Get up Discov tutorial and co workin

Recom

User access Manage users

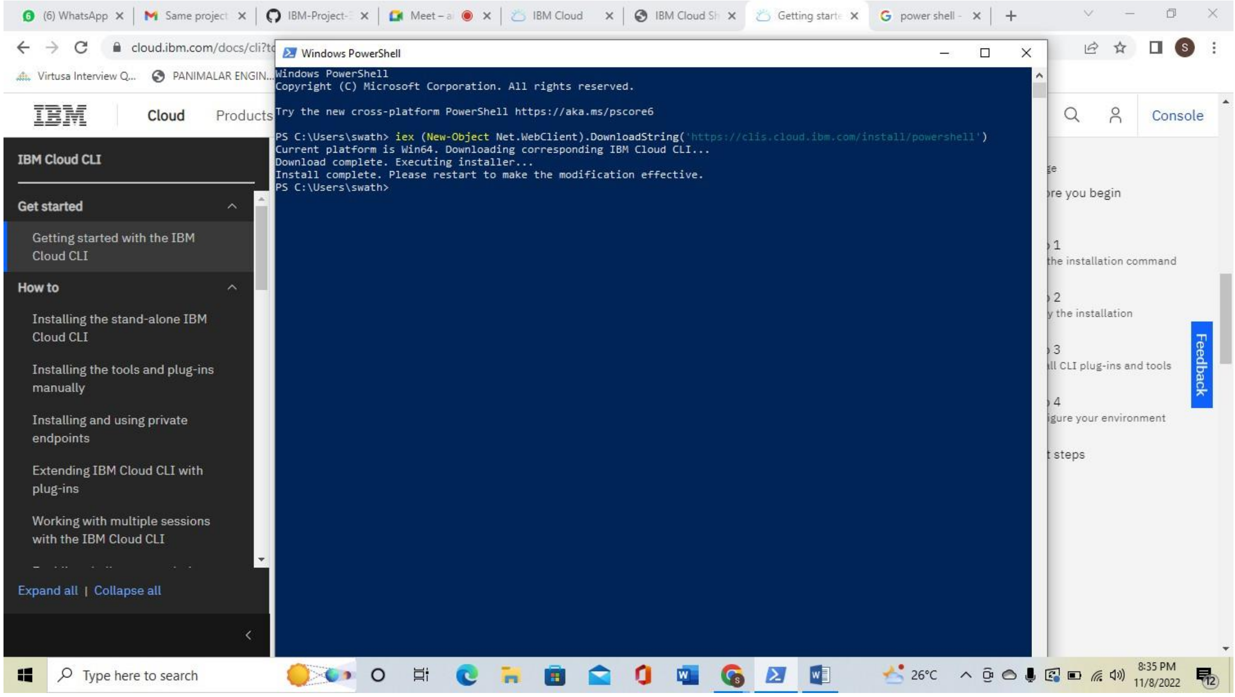
Enter email addresses below to jump directly into the invite user setup:

News View all

WebSphere Application Server Support Restatement

Planned maintenance Vie

Install IBM Cloud CLI:



IBM Cloud CLI

Get started

- Getting started with the IBM Cloud CLI

How to

- Installing the stand-alone IBM Cloud CLI
- Installing the tools and plug-ins manually
- Installing and using private endpoints
- Extending IBM Cloud CLI with plug-ins
- Working with multiple sessions with the IBM Cloud CLI

Expand all | Collapse all

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

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

PS C:\Users\swath> iex (New-Object Net.WebClient).DownloadString('https://clis.cloud.ibm.com/install/powershell')
Current platform is Win64. Downloading corresponding IBM Cloud CLI...
Download complete. Executing installer...
Install complete. Please restart to make the modification effective.
PS C:\Users\swath>
```

ge

ore you begin

1

the installation command

2

y the installation

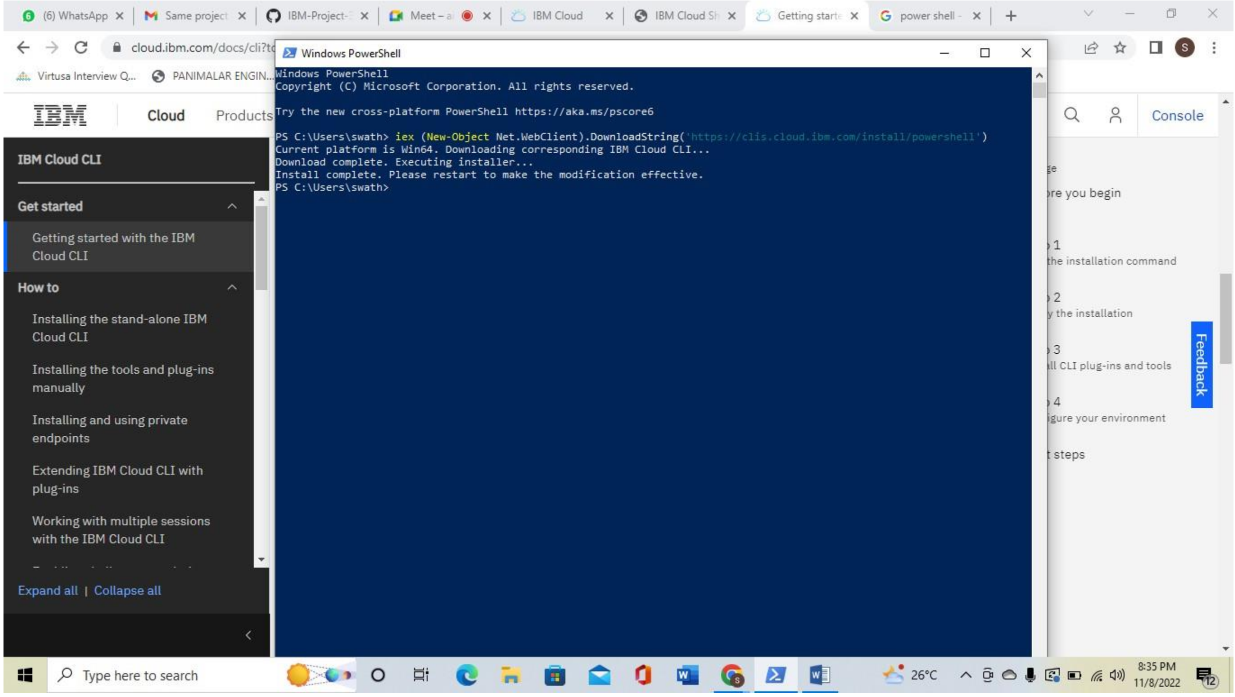
3

ll CLI plug-ins and tools

4

gure your environment

t steps



(6) WhatsApp
Same project
IBM-Project-
Meet – a
IBM Cloud
IBM Cloud Sh
Getting starte
power shell -
cloud.ibm.com/docs/cli?to
Virtusa Interview Q...
PANIMALAR ENGIN...
IBM
Cloud
Products
Console
IBM Cloud CLI
Get started
Getting started with the IBM Cloud CLI
How to
Installing the stand-alone IBM Cloud CLI
Installing the tools and plug-ins manually
Installing and using private endpoints
Extending IBM Cloud CLI with plug-ins
Working with multiple sessions with the IBM Cloud CLI
Expand all | Collapse all
Feedback
Type here to search
26°C
8:35 PM
11/8/2022

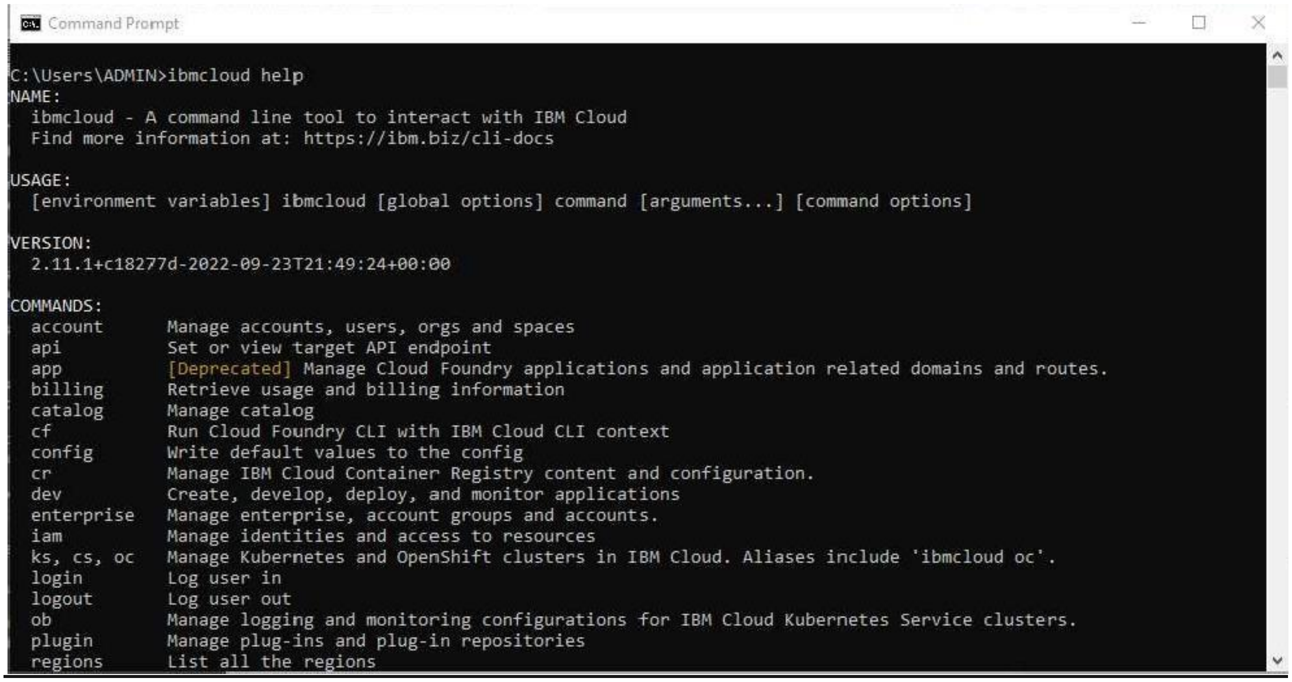
Windows PowerShell

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

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

PS C:\Users\swath> iex (New-Object Net.WebClient).DownloadString('https://clis.cloud.ibm.com/install/powershell')
Current platform is Win64. Downloading corresponding IBM Cloud CLI...
Download complete. Executing installer...
Install complete. Please restart to make the modification effective.
PS C:\Users\swath>
```

Verification:

Command:

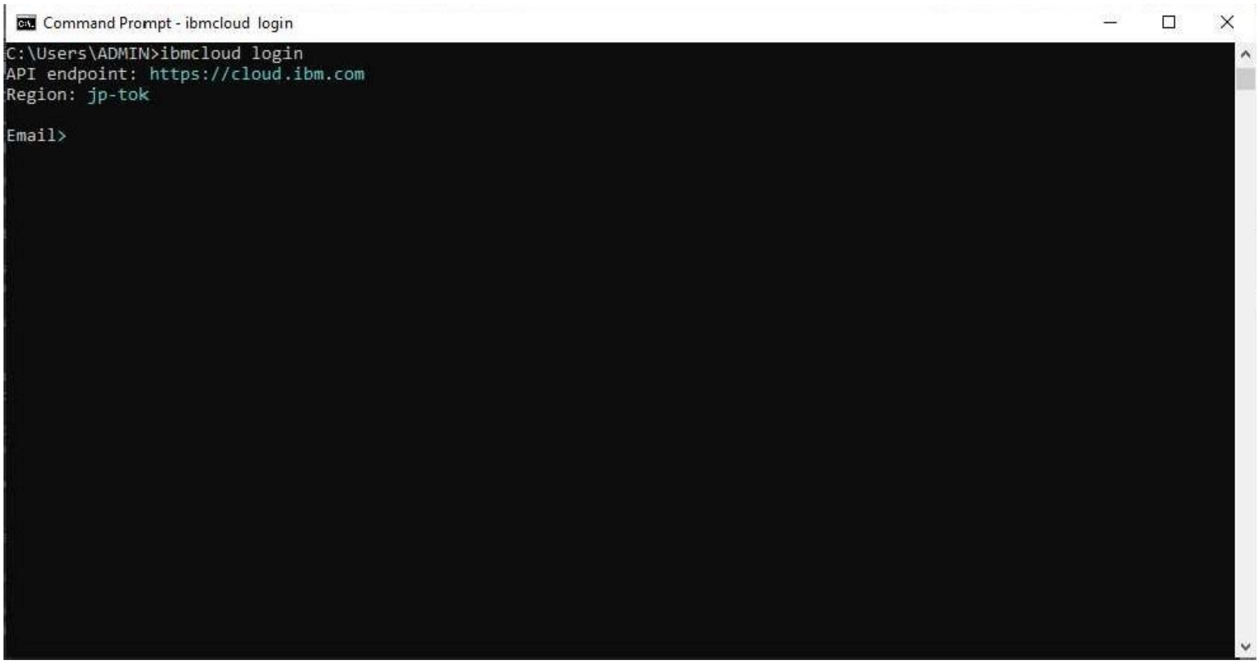
ibmcloud help



```
C:\Users\ADMIN>ibmcloud help
NAME:
  ibmcloud - A command line tool to interact with IBM Cloud
  Find more information at: https://ibm.biz/cli-docs

USAGE:
  [environment variables] ibmcloud [global options] command [arguments...] [command options]

VERSION:
  2.11.1+c18277d-2022-09-23T21:49:24+00:00

COMMANDS:
  account       Manage accounts, users, orgs and spaces
  api           Set or view target API endpoint
  app           [Deprecated] Manage Cloud Foundry applications and application related domains and routes.
  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
  cr            Manage IBM Cloud Container Registry content and configuration.
  dev           Create, develop, deploy, and monitor applications
  enterprise    Manage enterprise, account groups and accounts.
  iam           Manage identities and access to resources
  ks, cs, oc    Manage Kubernetes and OpenShift clusters in IBM Cloud. Aliases include 'ibmcloud oc'.
  login         Log user in
  logout        Log user out
  ob            Manage logging and monitoring configurations for IBM Cloud Kubernetes Service clusters.
  plugin        Manage plug-ins and plug-in repositories
  regions       List all the regions
```

Command:

ibmcloud login

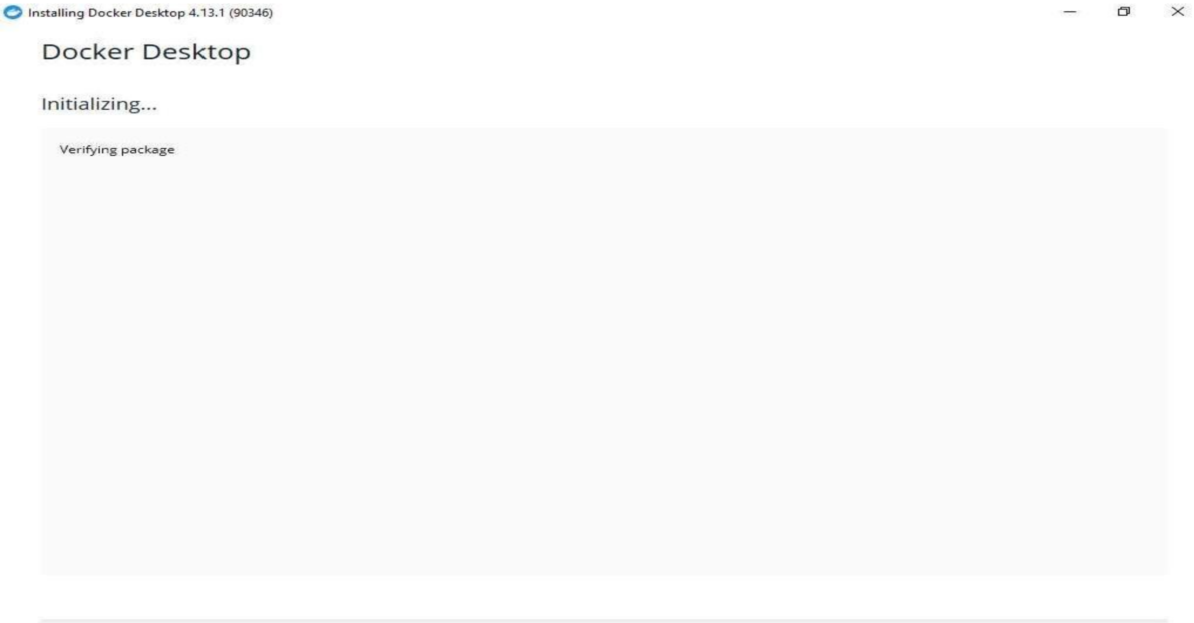


```
C:\Users\ADMIN>ibmcloud login
API endpoint: https://cloud.ibm.com
Region: jp-tok

Email>
```

Docker CLI Installation:

Commands:

>> start /w "" "Docker Desktop Installer.exe" install

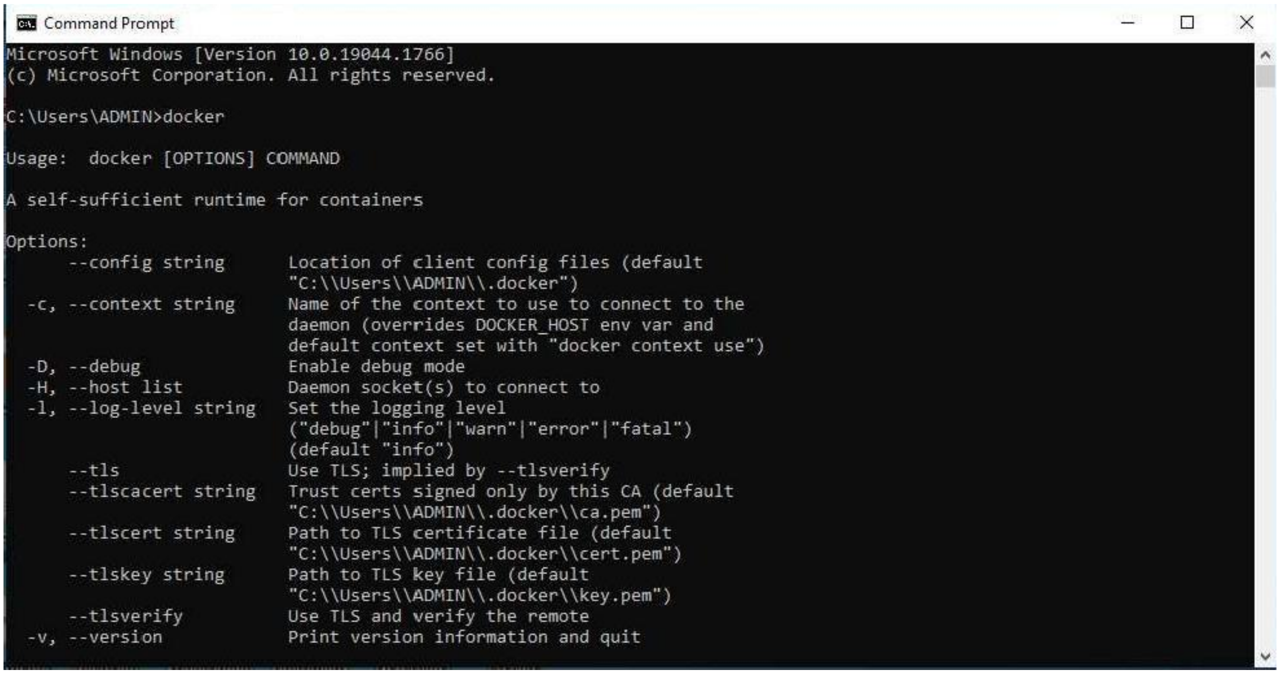


Docker Desktop

Initializing...

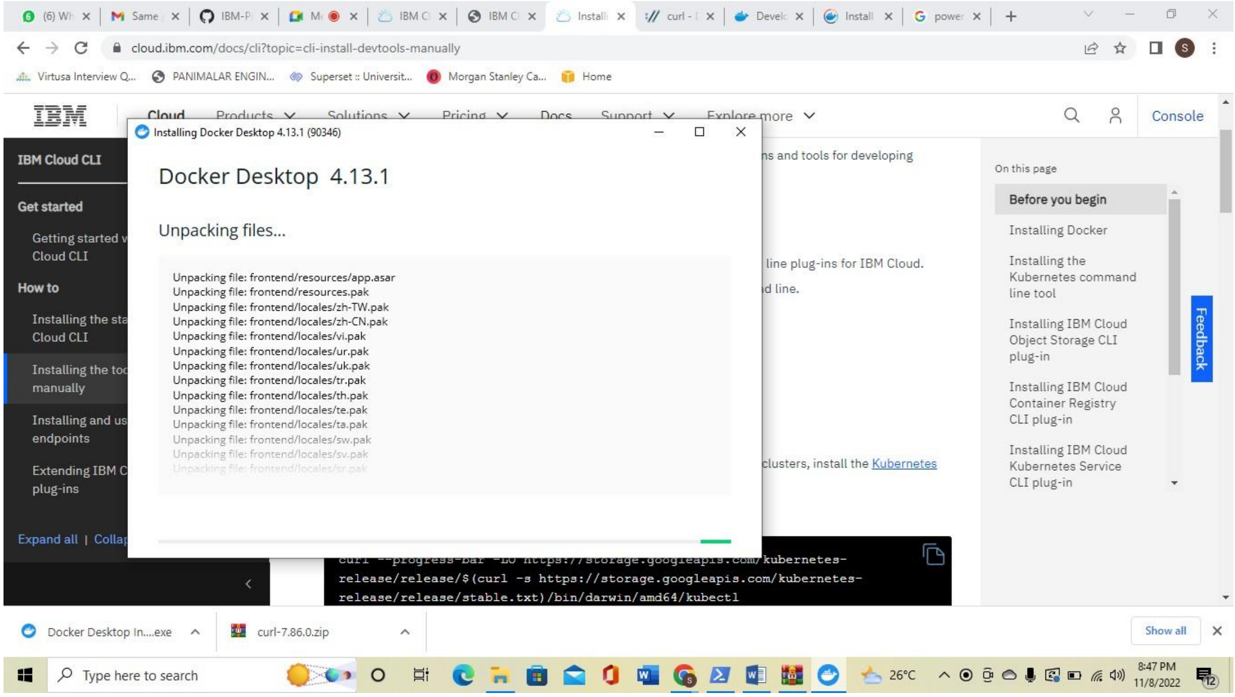
Verifying package

Docker CLI installation



```
Microsoft Windows [Version 10.0.19044.1766]
(c) Microsoft Corporation. All rights reserved.

C:\Users\ADMIN>docker

Usage:  docker [OPTIONS] COMMAND

A self-sufficient runtime for containers

Options:
      --config string      Location of client config files (default
                           "C:\\Users\\ADMIN\\.docker")
  -c, --context string     Name of the context to use to connect to the
                           daemon (overrides DOCKER_HOST env var and
                           default context set with "docker context use")
  -D, --debug              Enable debug mode
  -H, --host list          Daemon socket(s) to connect to
  -l, --log-level string   Set the logging level
                           ("debug"|"info"|"warn"|"error"|"fatal")
                           (default "info")
      --tls                Use TLS; implied by --tlsverify
      --tlscacert string   Trust certs signed only by this CA (default
                           "C:\\Users\\ADMIN\\.docker\\ca.pem")
      --tlscert string     Path to TLS certificate file (default
                           "C:\\Users\\ADMIN\\.docker\\cert.pem")
      --tlskey string      Path to TLS key file (default
                           "C:\\Users\\ADMIN\\.docker\\key.pem")
      --tlsverify          Use TLS and verify the remote
  -v, --version            Print version information and quit
```

Docker desktop:



Installing Docker Desktop 4.13.1 (90346)

Docker Desktop 4.13.1

Unpacking files...

```
Unpacking file: frontend/resources/app.asar
Unpacking file: frontend/resources.pak
Unpacking file: frontend/locales/zh-TW.pak
Unpacking file: frontend/locales/zh-CN.pak
Unpacking file: frontend/locales/vi.pak
Unpacking file: frontend/locales/ur.pak
Unpacking file: frontend/locales/uk.pak
Unpacking file: frontend/locales/tr.pak
Unpacking file: frontend/locales/th.pak
Unpacking file: frontend/locales/te.pak
Unpacking file: frontend/locales/ta.pak
Unpacking file: frontend/locales/sw.pak
Unpacking file: frontend/locales/sv.pak
Unpacking file: frontend/locales/sr.pak
```

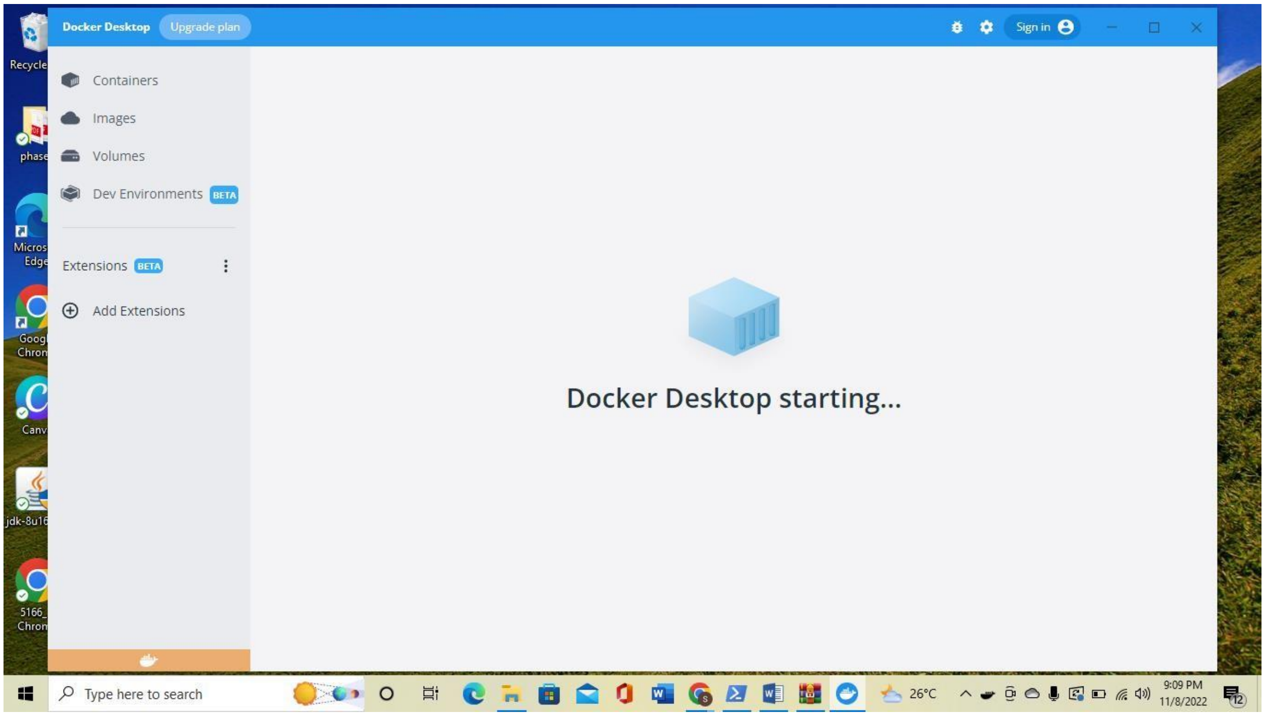
ns and tools for developing

line plug-ins for IBM Cloud.

d line.

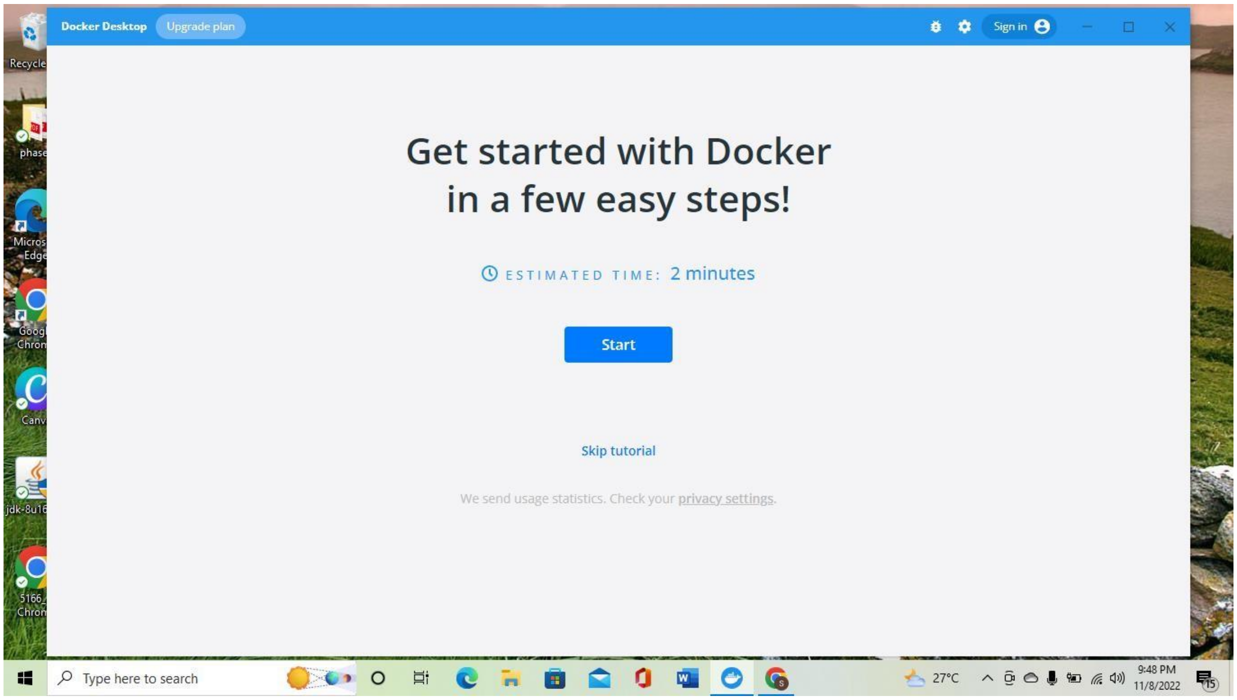
clusters, install the Kubernetes

```
curl --progress-bar -LO https://storage.googleapis.com/kubernetes-
release/release/$(curl -s https://storage.googleapis.com/kubernetes-
release/release/stable.txt)/bin/darwin/amd64/kubectl
```



Docker Desktop starting...

Docker startup:



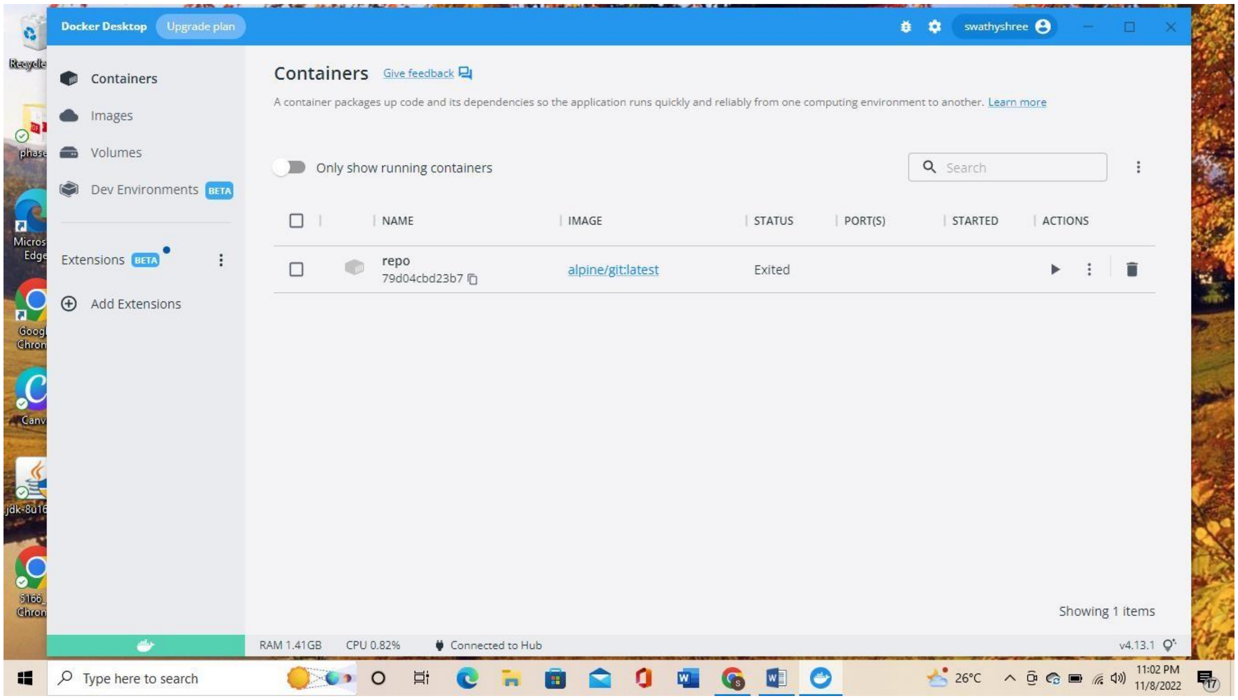
Get started with Docker
in a few easy steps!

ESTIMATED TIME: 2 minutes

Start

Skip tutorial

We send usage statistics. Check your privacy settings.

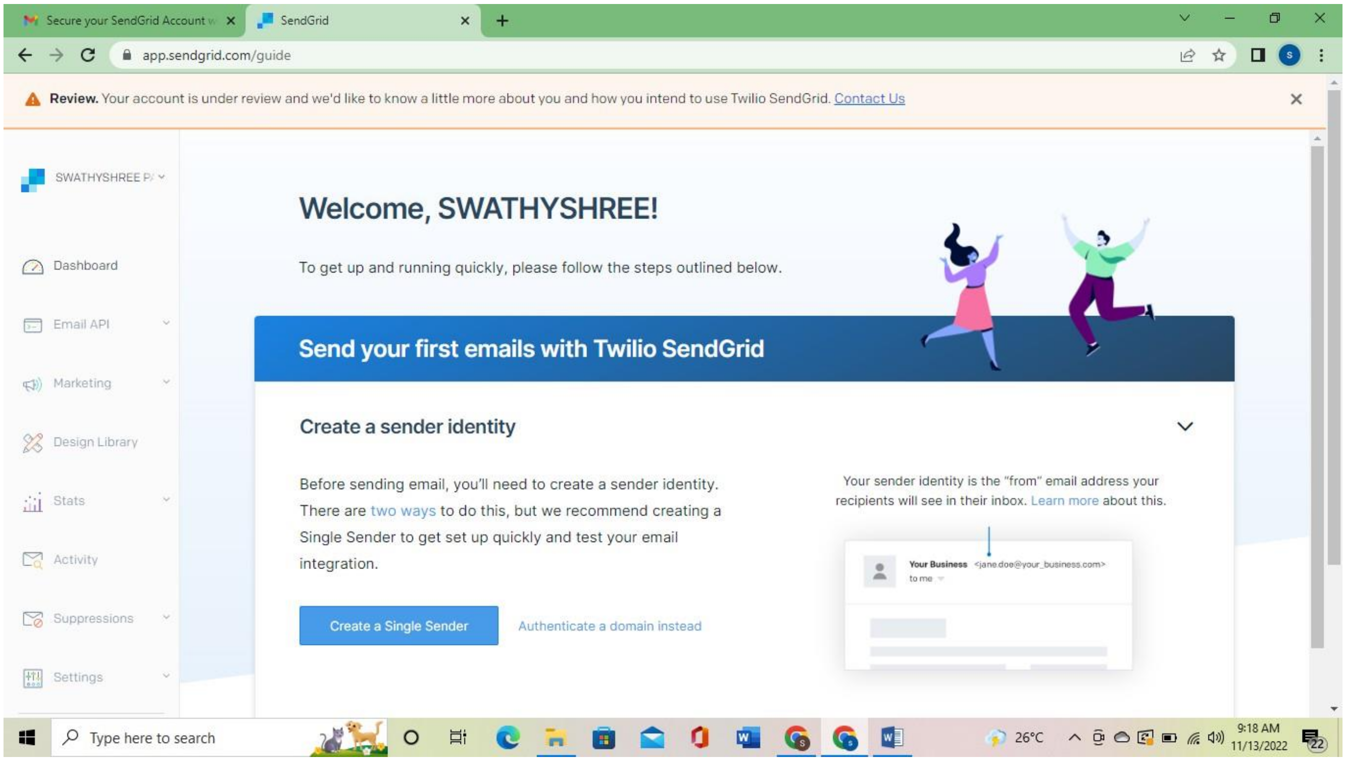


Containers

A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. Learn more

NAME	IMAGE	STATUS	PORT(S)	STARTED	ACTIONS
repo 79d04cbd23b7	alpine/git:latest	Exited			

Create an Account in SendGrid:



Review. Your account is under review and we'd like to know a little more about you and how you intend to use Twilio SendGrid. Contact Us

Welcome, SWATHYSHREE!

To get up and running quickly, please follow the steps outlined below.

Send your first emails with Twilio SendGrid

Create a sender identity

Before sending email, you'll need to create a sender identity. There are two ways to do this, but we recommend creating a Single Sender to get set up quickly and test your email integration.

Your sender identity is the "from" email address your recipients will see in their inbox. Learn more about this.