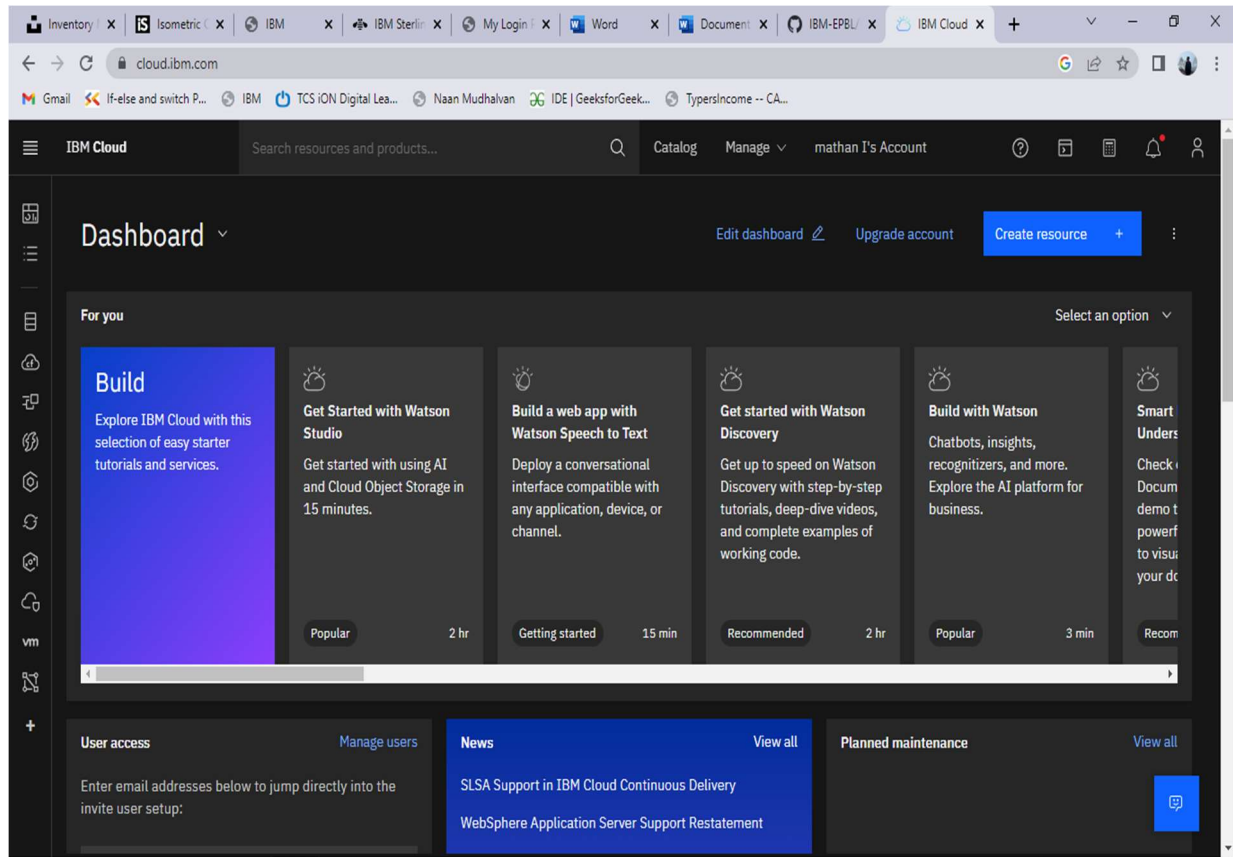


Creating the Flask Project

```
from flask import * #imports
app = Flask(__name__) #Creating Instance for Flask to use easier
cars = {"1":"Ferari","2":"Lamborghini","3":"BMW","4":"Audi","5":"Benz"} #Dictionary for Operation
#route for insert and view
@app.route("/",methods=['POST','GET'])
def getpost():
    if request.method=='GET':
        return cars
    if request.method=='POST':
        ip = request.json
        cars.update(ip)
        return 'data inserted'
#route for update
@app.route('/<id>',methods=['PUT'])
def put(id):
    ip = request.form['carname']
    cars[str(id)] = ip
    return 'updated successfully'
#route for delete
@app.route("/<id>",methods=['DELETE'])
def dele(id):
    cars.pop(str(id))
    return 'deleted successfully'
#running the app
if __name__ == "__main__":
    app.run(debug=True)
```

Creating Ibm Cloud Account



Installing Ibm Cloud Cli

```
Command Prompt
Microsoft Windows [Version 10.0.19044.2251]
(c) Microsoft Corporation. All rights reserved.

C:\Users\mazzm>ibmcloud
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:
  2.12.1+bb488a1-2022-10-31T15:00:10+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 'ibmcloud 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_CR_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 VS
  IBMCLCLOUD_CR_TOKEN=cr_token_value Compute resource token used for login. Can either be a token string or a path to a @file.
  IBMCLCLOUD_CR_PROFILE=profile_value The name, ID, or CN 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 CN 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:
  --version, -v          Print the version
  --help, -h            Show help
```

Docker Cli installation

```
Command Prompt
Microsoft Windows [Version 10.0.22000.1219]
(c) Microsoft Corporation. All rights reserved.

C:\Users\91936>docker

Usage: docker [OPTIONS] COMMAND

A self-sufficient runtime for containers

Options:
  --config string          Location of client config files (default
                           "C:\Users\91936\.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\91936\.docker\ca.pem")
  --tlscert string         Path to TLS certificate file (default
                           "C:\Users\91936\.docker\cert.pem")
  --tlskey string          Path to TLS key file (default
                           "C:\Users\91936\.docker\key.pem")
  --tlsverify              Use TLS and verify the remote
  -v, --version            Print version information and quit

Management Commands:
  builder      Manage builds
  buildx*     Docker Buildx (Docker Inc., v0.9.1)
  compose*    Docker Compose (Docker Inc., v2.12.1)
  config      Manage Docker configs
  container   Manage containers
  context     Manage contexts
  dev*       Docker Dev Environments (Docker Inc., v0.0.3)
  extension*  Manages Docker extensions (Docker Inc., v0.2.13)
  image       Manage images
  manifest    Manage Docker image manifests and manifest lists
  network     Manage networks
  node        Manage Swarm nodes
  plugin      Manage plugins
  sbom*       View the packaged-based Software Bill Of Materials (SBOM) for an image (Anchore Inc., 0.6.0)
  scan*      Docker Scan (Docker Inc., v0.21.0)
  secret      Manage Docker secrets
  service     Manage services
  stack       Manage Docker stacks
```

sendgrid account creation screen

The screenshot shows the SendGrid web interface in a browser. The browser's address bar displays the URL `app.sendgrid.com/guide?from=profile&integrate=true`. The left sidebar contains a navigation menu with the following items: **mathan iyappan**, **Dashboard**, **Email API**, **Marketing**, **Design Library**, **Stats**, **Activity**, **Suppressions**, **Settings**, and **Twilio SMS NEW**. The main content area features a welcome message: **Welcome, mathan!**, followed by the instruction: "To get up and running quickly, please follow the steps outlined below." Below this is a blue banner with the text **Send your first emails with Twilio SendGrid**. The primary task is **Create a sender identity**, which includes the text: "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." Two buttons are provided: **Create a Single Sender** and **Authenticate a domain instead**. An illustration shows an email header with the sender **Your Business** and address `<jane.doe@your_business.com>`. A secondary instruction states: "Your sender identity is the 'from' email address your recipients will see in their inbox. [Learn more](#) about this." At the bottom, a section titled **Send your first email** includes a lock icon and the text: "Please create a sender identity before sending your first email."