

# Setting Up Application Environment

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Team ID	PNT2022TMID10619
Project Name	Project– Inventory Management System for Retailers

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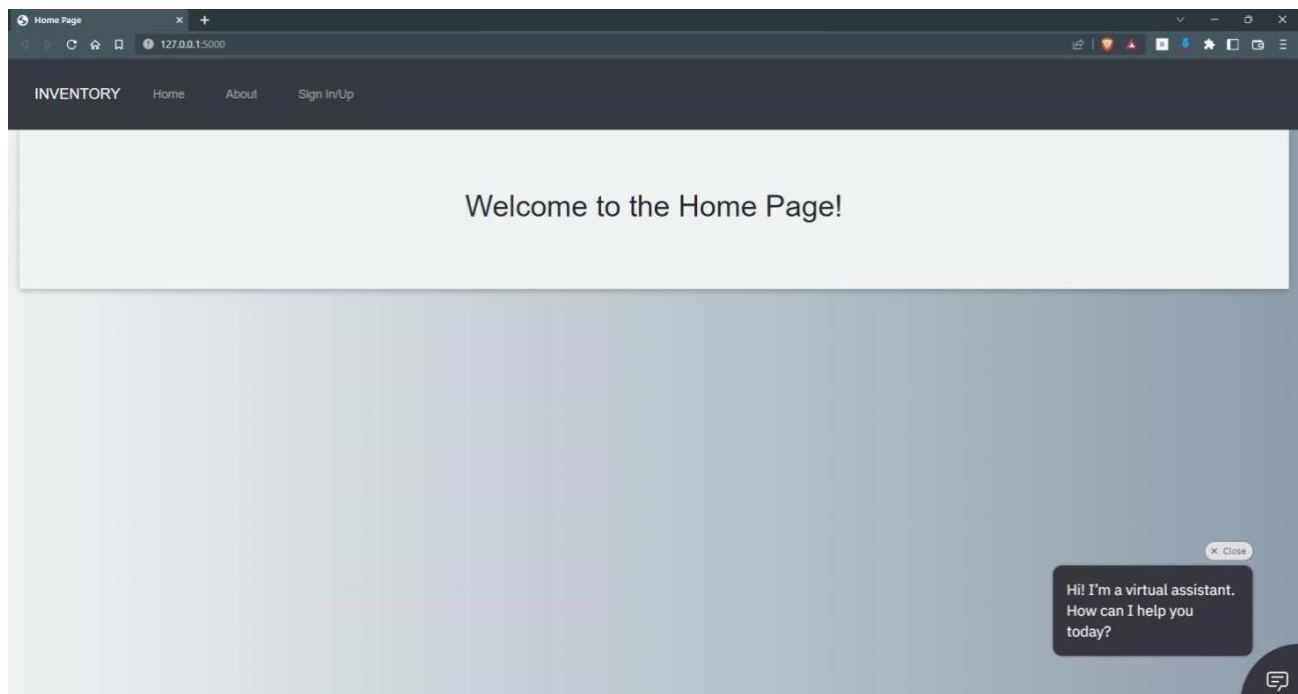
## Create Flask Project:

```
Command Prompt
[notice] A new release of pip available: 22.3 -> 22.3.1
[notice] To update, run: python.exe -m pip install --upgrade pip

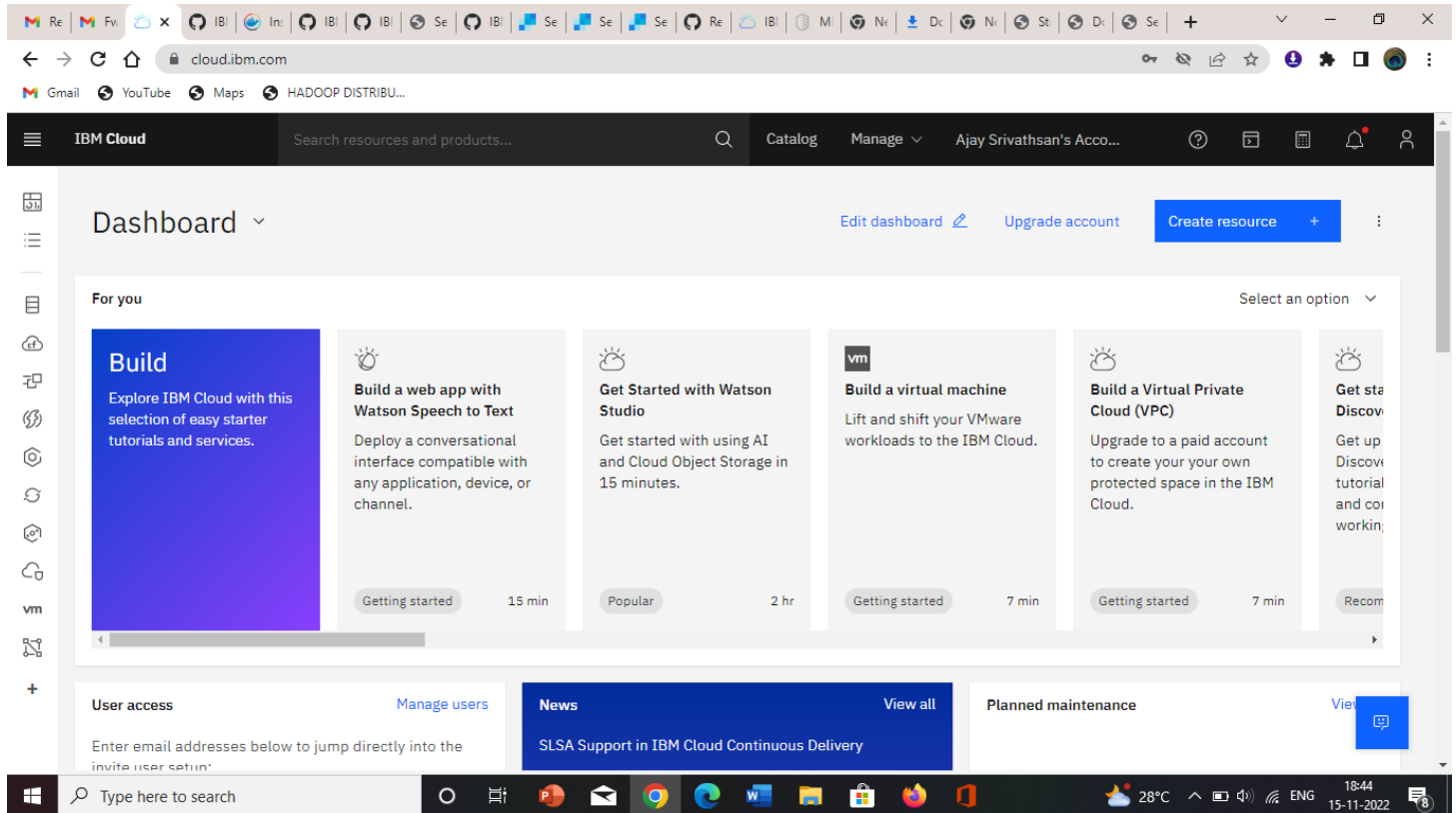
C:\Users\Welcome>pip install Flask
Requirement already satisfied: Flask in c:\python311\lib\site-packages (2.2.2)
Requirement already satisfied: Werkzeug>=2.2.2 in c:\python311\lib\site-packages (from Flask) (2.2.2)
Requirement already satisfied: Jinja2>=3.0 in c:\python311\lib\site-packages (from Flask) (3.1.2)
Requirement already satisfied: itsdangerous>=2.0 in c:\python311\lib\site-packages (from Flask) (2.1.2)
Requirement already satisfied: click>=8.0 in c:\python311\lib\site-packages (from Flask) (8.1.3)
Requirement already satisfied: colorama in c:\python311\lib\site-packages (from click>=8.0->Flask) (0.4.6)
Requirement already satisfied: MarkupSafe>=2.0 in c:\python311\lib\site-packages (from Jinja2>=3.0->Flask) (2.1.1)

[notice] A new release of pip available: 22.3 -> 22.3.1
[notice] To update, run: python.exe -m pip install --upgrade pip

C:\Users\Welcome>pip install --upgrade pip
Requirement already satisfied: pip in c:\python311\lib\site-packages (22.3)
```



# Create IBM Cloud Account:



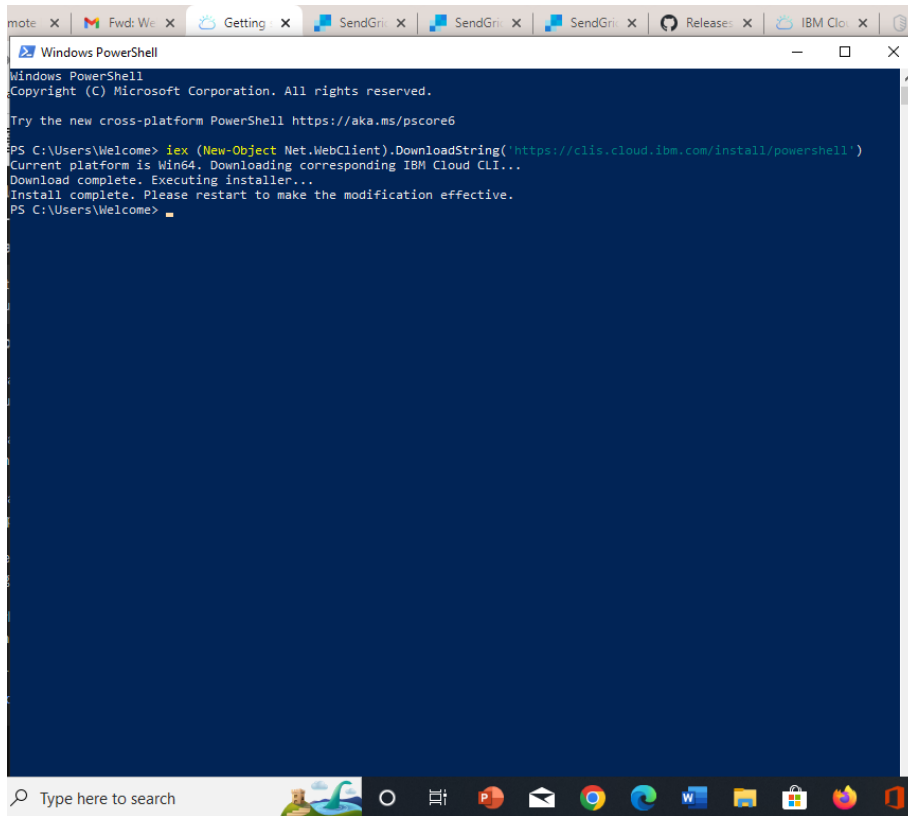
The screenshot displays the IBM Cloud Dashboard in a web browser. The browser's address bar shows the URL `cloud.ibm.com`. The dashboard header includes the IBM Cloud logo, a search bar, and navigation links for Catalog, Manage, and the user's account (Ajay Srivathsan's Acco...). The main content area is titled "Dashboard" and features a "Create resource" button. Below this, a "For you" section presents several recommended actions, each with a "Getting started" button and a time estimate:

- Build**: Explore IBM Cloud with this selection of easy starter tutorials and services.
- Build a web app with Watson Speech to Text**: Deploy a conversational interface compatible with any application, device, or channel. (15 min)
- Get Started with Watson Studio**: Get started with using AI and Cloud Object Storage in 15 minutes. (2 hr)
- Build a virtual machine**: Lift and shift your VMware workloads to the IBM Cloud. (7 min)
- Build a Virtual Private Cloud (VPC)**: Upgrade to a paid account to create your own protected space in the IBM Cloud. (7 min)
- Get started with Watson Discovery**: Get up and running with Watson Discovery. (Recomm)

At the bottom of the dashboard, there are sections for "User access" (with a "Manage users" link), "News" (highlighting "SLSA Support in IBM Cloud Continuous Delivery" with a "View all" link), and "Planned maintenance" (with a "View" link).

The Windows taskbar at the bottom shows the search bar, task view button, and several open applications including Chrome, Edge, Word, and File Explorer. The system tray indicates a temperature of 28°C, battery level, and the date/time: 18:44 on 15-11-2022.

# Install IBM Cloud CLI:



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

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

PS C:\Users\Welcome> 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\Welcome>
```

# Docker CLI Installation:

The screenshot shows a web browser window displaying the Docker Labs 'Getting Started' tutorial. The page has a dark blue header with the Docker Labs logo and a search bar. On the left, there is a sidebar with a list of links under the 'Getting Started' section. The main content area is titled 'Getting Started' and contains a section 'The command you just ran'. This section congratulates the user and provides the command `docker run -d -p 80:80 docker/getting-started`. Below the command, there is a list of flags: `-d` (run in detached mode), `-p 80:80` (map port 80 of the host to port 80 in the container), and `docker/getting-started` (the image to use). A 'Pro tip' box suggests combining single character flags to shorten the command to `docker run -dp 80:80 docker/getting-started`. On the right, there is a 'Table of contents' section with links to 'The command you just ran', 'The Docker Dashboard', 'What is a container?', and 'What is a container image?'. The bottom of the page shows the start of a section titled 'The Docker Dashboard'.

Getting Started

Getting Started

Our Application

Updating our App

Sharing our App

Persisting our DB

Using Bind Mounts

Multi-Container Apps

Using Docker Compose

Image Building Best Practices

What Next?

## Getting Started

### The command you just ran

Congratulations! You have started the container for this tutorial! Let's first explain the command that you just ran. In case you forgot, here's the command:

```
docker run -d -p 80:80 docker/getting-started
```

You'll notice a few flags being used. Here's some more info on them:

- `-d` - run the container in detached mode (in the background)
- `-p 80:80` - map port 80 of the host to port 80 in the container
- `docker/getting-started` - the image to use

**Pro tip**

You can combine single character flags to shorten the full command. As an example, the command above could be written as:

```
docker run -dp 80:80 docker/getting-started
```

### The Docker Dashboard

Before going too far, we want to highlight the Docker Dashboard, which gives you a quick view of the containers running on your machine. It gives you quick access to container logs, lets you net

Table of contents

- The command you just ran
- The Docker Dashboard
- What is a container?
- What is a container image?

# Create an account in SendGrid:

