

## Instructions: Microsoft Azure Sample Application

### Prerequisites

1. Microsoft Azure Account: If you don't have an Azure account, you can sign up for a free one at <https://azure.microsoft.com/en-us/free/>.
2. Node.js: Make sure you have Node.js installed on your computer. If not, download and install it from <https://nodejs.org/en/download/>.

### Step 1: Create a Node.js Application Locally

1. Create a folder for your project and navigate to it in your command prompt or terminal.
2. Run the following commands to create a basic Node.js app:

```
bash
```

```
npm init -y  
npm install express
```

3. Create a file named `app.js` and add the following code:

```
javascript
```

```
const express = require('express');  
const app = express();  
const port = process.env.PORT || 3000;  
  
app.get('/', (req, res) => {  
  res.send('Hello Azure!');  
});  
  
app.listen(port, () => {  
  console.log(`Server running on http://localhost:${port}`);  
});
```

4. Test your app locally by running:

```
bash
node app.js
```

Visit `http://localhost:3000` in your browser to make sure it's working.

## Step 2: Deploy the App to Azure

1. Log in to Azure Portal: Visit <https://portal.azure.com> and log in with your credentials.
2. Create a Resource Group: Click on "Resource groups" -> "Create" -> fill in the details -> click "Review + create".
3. Create a Web App:
  - Click on "Create a resource" -> "Web" -> "Web App".
  - Fill in the subscription, resource group, name, operating system (choose Linux), runtime stack (choose Node.js), and region.
  - In the "Dev/Test" tab, select the "F1 Free" pricing tier.
  - Click "Review + create", then "Create".
4. Configure Deployment Center:
  - Go to the newly created web app -> "Deployment Center".
  - Choose "Local Git" for the source control -> "Continue".
  - Choose "Node.js" for the build provider -> "Continue".
  - Click "Finish".
5. Set up Local Git Deployment:
  - Follow the instructions shown in the Deployment Center to set up Git for your local app.
  - Push your code to Azure with the commands provided.
6. Access Your Live Site: Click on the "URL" link in the Overview section of your web app. You should now see your 'Hello Azure!' message.

And that's it!

You've successfully deployed a demo Node.js application to Microsoft Azure using free services. Feel free to modify the code in `app.js` to make the app your own, then follow the Git push process again to update it on Azure.