

# MICROSOFT DYNAMICS BC

## ASSIGNMENT

### Table of Contents

1	Introduction .....	2
2	Docker & Business Central .....	2
3	How to: Install Docker & create Business Central Container .....	2
4	Visual Studio Code connected with Docker .....	5
5	How to: Install Visual Studio Code connect with Docker .....	6

## 1 Introduction

In this document we will test/pass basic knowledge for Docker & Visual Studio Code (VS Code) connected with Business Central (BC)

## 2 Docker & Business Central

Theoretical question:

1. What is Docker?  
<https://www.docker.com/why-docker>  
<https://opensource.com/resources/what-docker>
2. What is Container?  
<https://www.docker.com/resources/what-container>
3. What is main advantage comparing with Virtual Machine?  
<https://docs.docker.com/docker-for-windows/> <https://blog.docker.com/2018/08/containers-replacing-virtual-machines/>

Docker commands: <https://docs.docker.com/engine/reference/commandline/docker/>

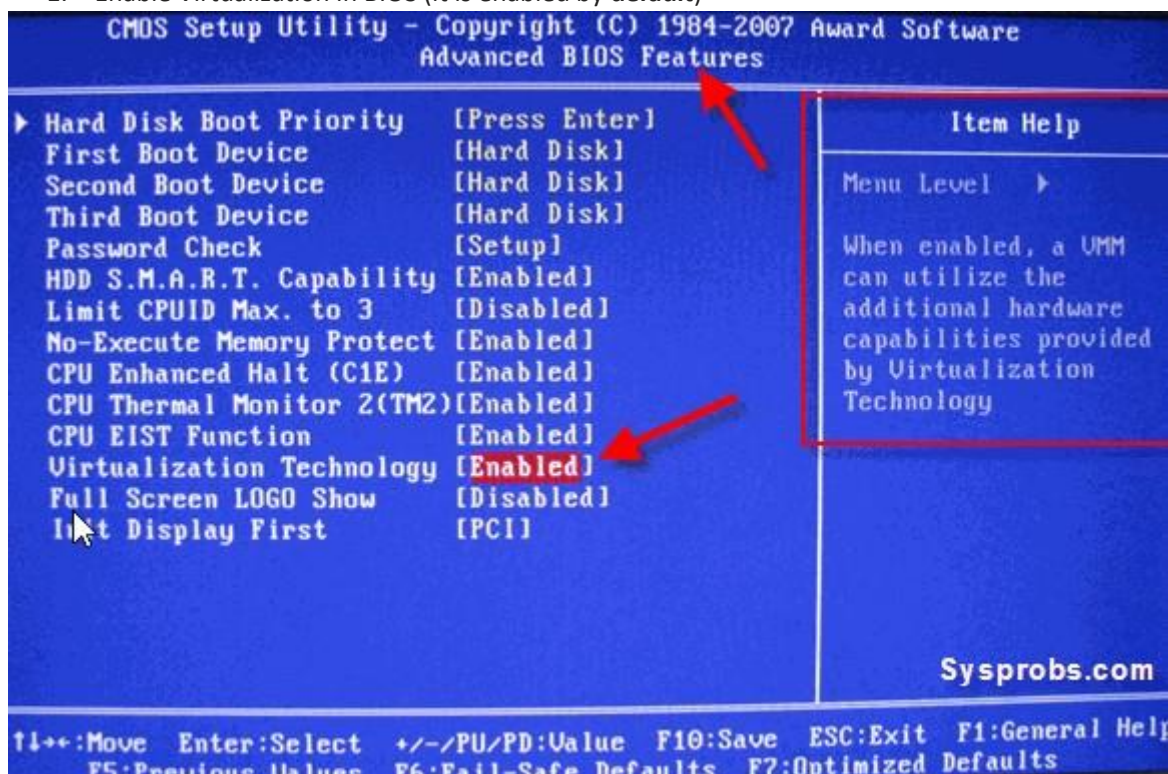
## 3 How to: Install Docker & create Business Central Container

Task: Install Docker and make new "BC" container with Dynamics 365 Business central.

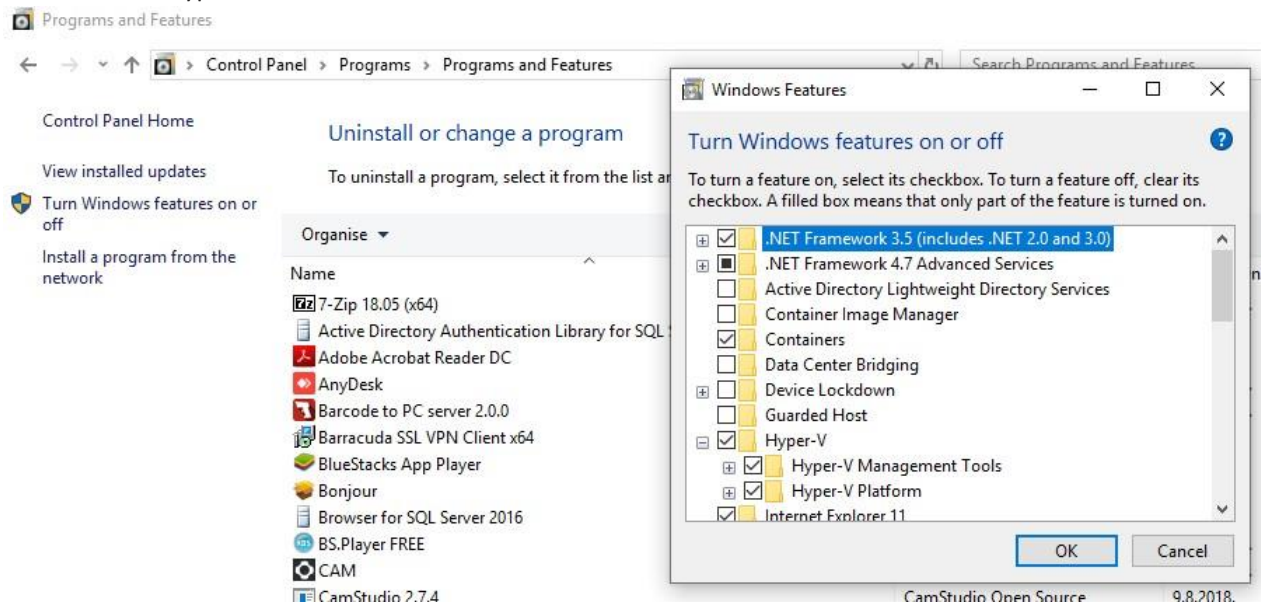
Practice:

For Installation of Docker, it is needed to:

1. Enable Virtualization in BIOS (it is enabled by **default**)



## 2. Install Hyper V



## 3. Create Docker Account:

<https://hub.docker.com/signup>

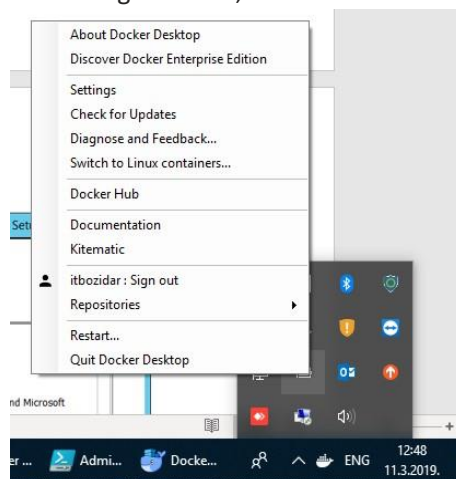
## 4. Download Docker Windows app:

<https://hub.docker.com/editions/community/docker-ce-desktop-windows>

## 5. Setup Docker:

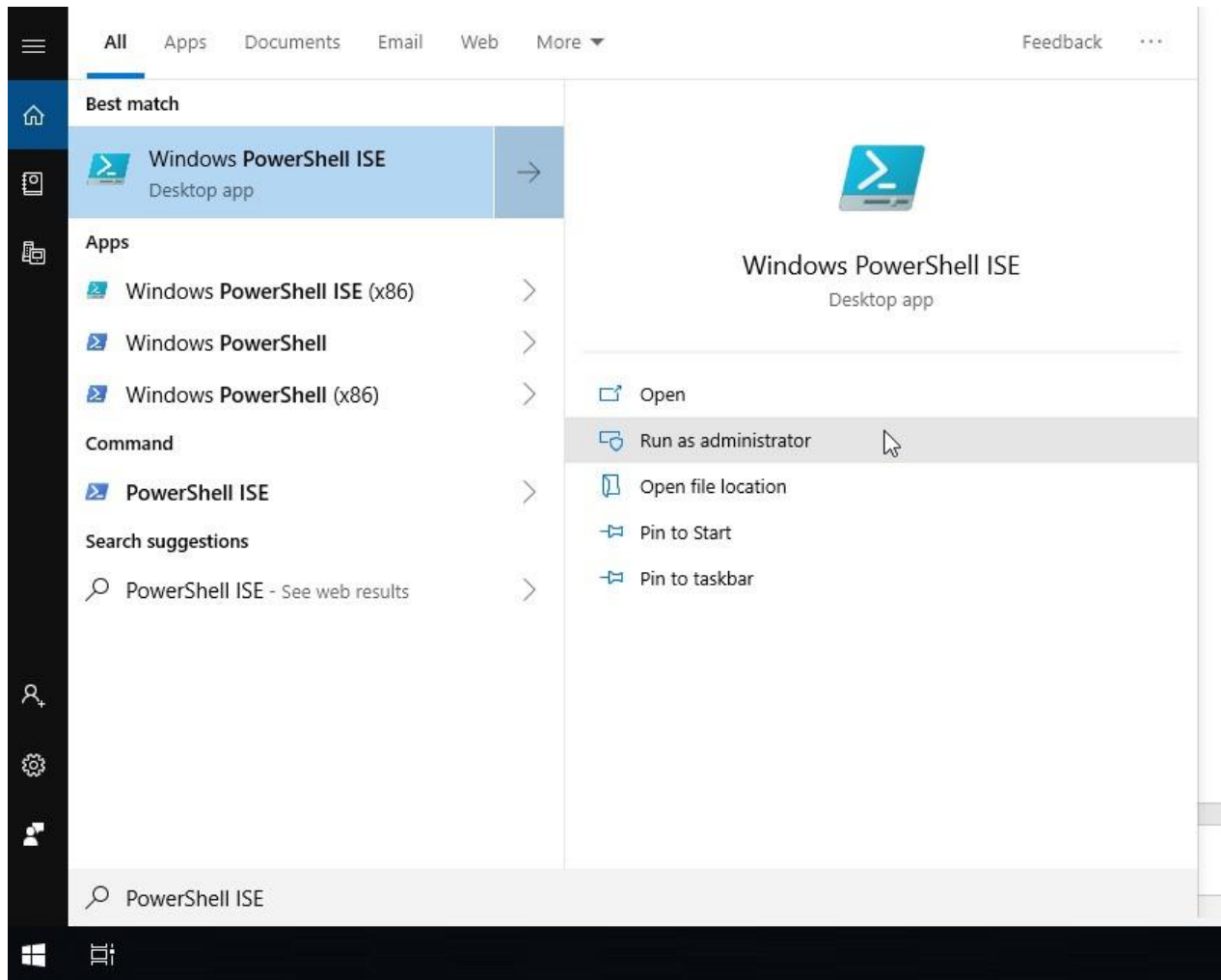
Docker Virtualization must be setup for Windows Containers:

- Right click on Docker Whale in right corner, and switch to Windows Containers.



## 6. PowerShell:

- Run PowerShell ISE as Admin:



- Run following PowerShell script:



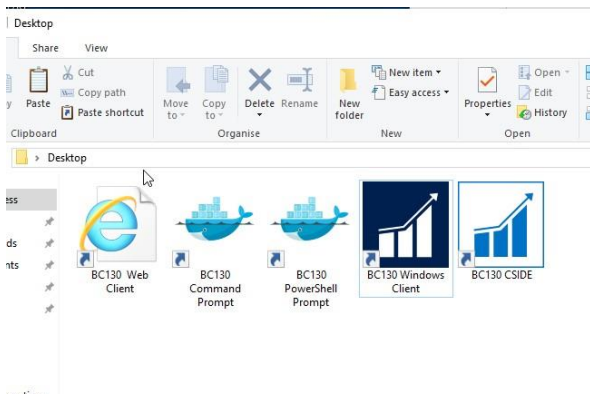
create\_bc\_interview  
.ps1

When prompt for user and password: Enter your new user and new password and remember it.

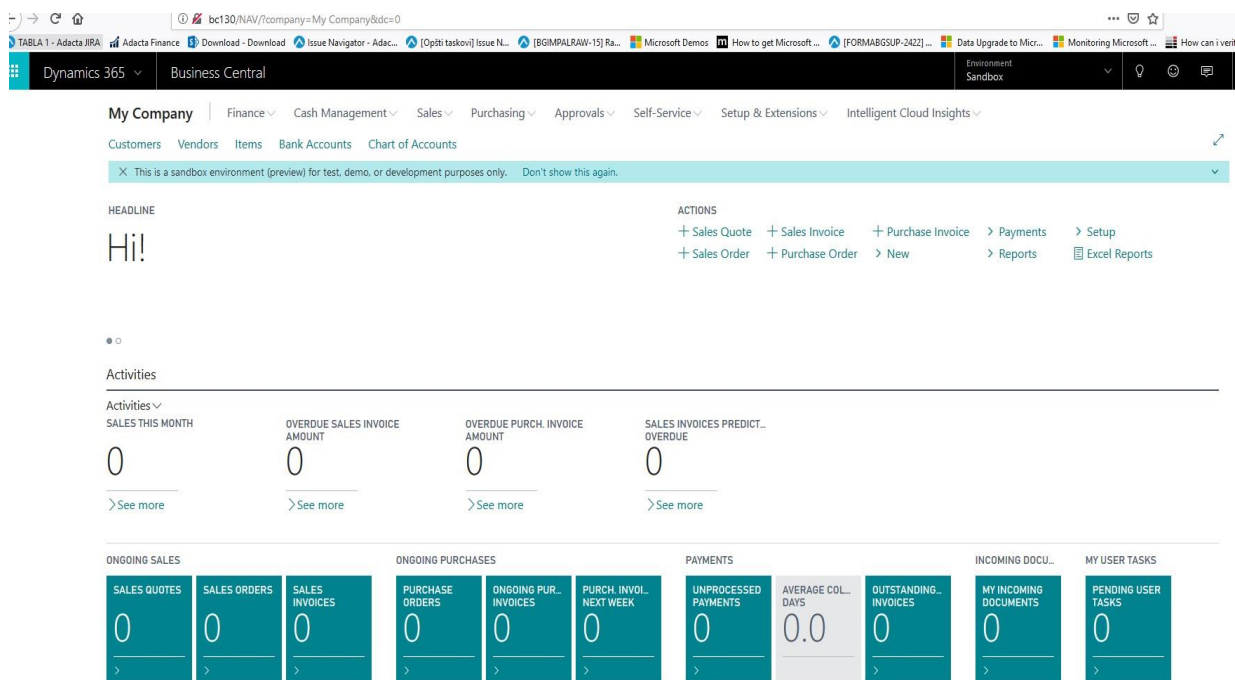
Most used docker commands to check status of docker and containers:

```
docker ps -a
Docker start <Docker name>
Docker stop <Docker name>
Docker logs <Docker name>
```

You should find new shortcuts on desktop:



- Run BC Web Client or Open in browser installed Business Central:  
http:<image name>/instance Example:  
<http://bc-test/NAV>
- Enter user name and password used in PowerShell Script:  
Example:  
User: admin  
Pass: admin



## 4 Visual Studio Code connected with Docker

Practical task:

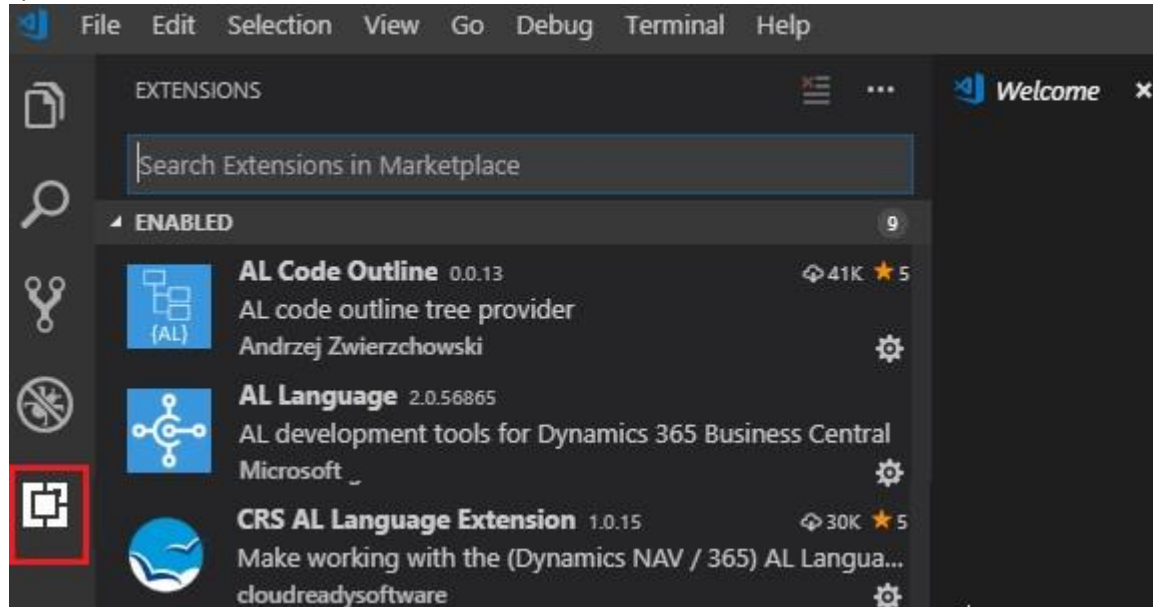
1. Install Visual Studio Code.
2. Make connection with installed Business Central in your container.
3. When you open Customer List make one notice, to check connection:
4. Create a small sample app in AL, for example: Hello World

## 5 How to: Install Visual Studio Code connect with Docker

1. Download and Install VS Code:

<https://code.visualstudio.com/download>

Open VS Code and select Extensions bar:



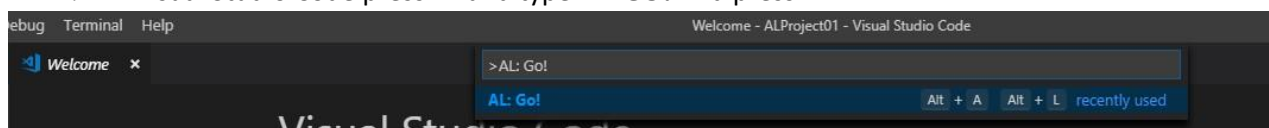
2. Search and Install following Extension:

- AL Code Outline
- AL Language
- CRS AL Language Extension

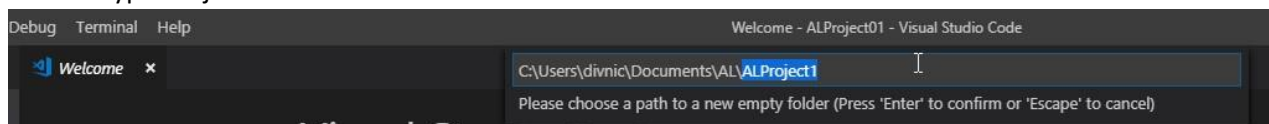
3. AL Start walk through:

<https://docs.microsoft.com/en-us/dynamics365/business-central/dev-itpro/developer/devenv-getstarted>

4. In Visual Studio Code press F1 and type **AL: GO!** And press ENTER



5. Type Project Name and click ENTER



6. Connection VS Code & Business Central (BC130)

Open Lunch.json - configuration file for connection Example:

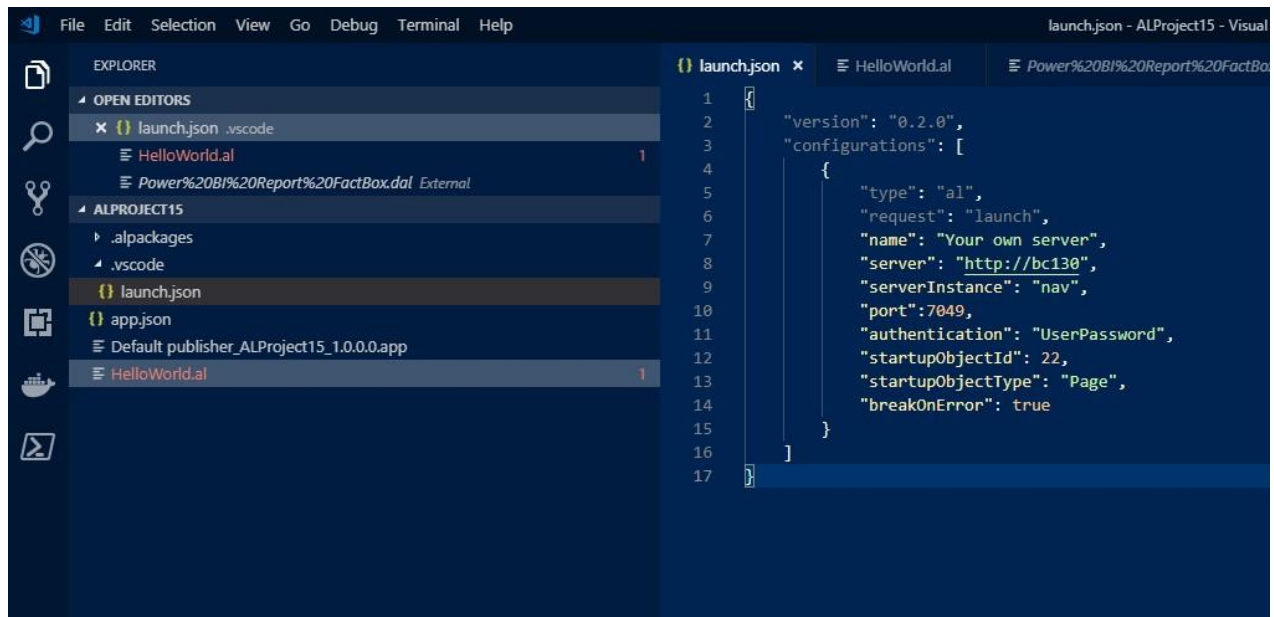


launch.json

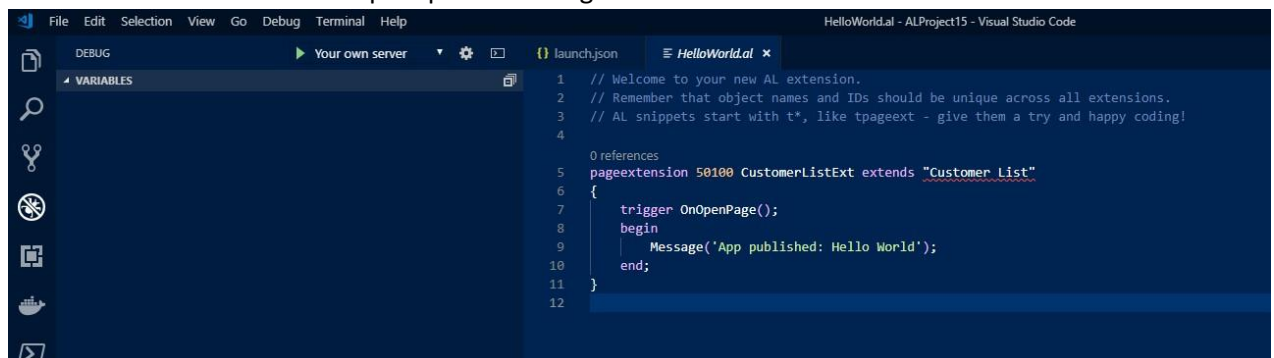
Need attentions on



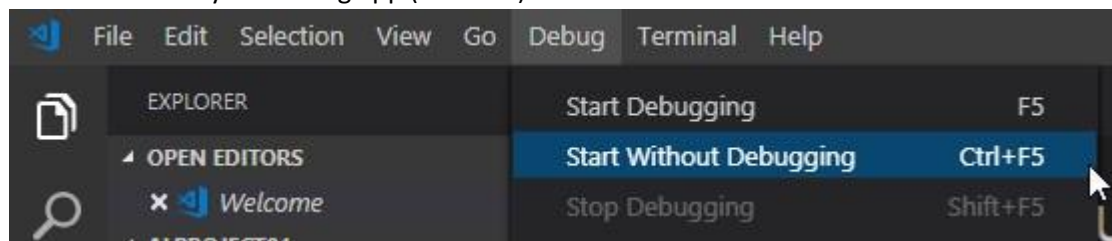
- "server": "<http://<name>>",
- "serverInstance": "NAV",



Just start the HelloWorld example up and running:



You can do that by Publishing app (Ctrl + F5):



When open Customer in yours Business Central will appear: Hello World