The purpose of this guide is to install the necessary components to successfully run [Intersight IaC](https://github.com/scotttyso/intersight_iac) on your PC / Virtual Machine.

**Step 1:** Install WLS2 on Windows

**Step 2:** Install Ubuntu and Packages

**Step 3:** Setup local GIT repository and link to GIT Account

**Step 4:** Fork the Intersight IAC code via Desktop and clone it to your GIT folder

**Step 5:** How to update code when commits are made

**Step 6:** Container Commands (Optional)

**Pre-requisites:**

* If you are using a MAC, you can skip to step 2.5 and run it on your Terminal. (This is assuming you have Python 3 installed and other requirements). When in terminal you may need to use sudo prior to commands to install pip requirements (Step 3.4)
* Download [Visual Studio Code](https://code.visualstudio.com/download) (Optional)
* Download Windows PowerShell (Optional)
* Create GitHub Account (Mandatory)
* Before starting the process, please enable Virtualization on your PC via the BIOS settings. Follow the guide below:
* Lenovo PC:

<https://support.lenovo.com/lt/lt/solutions/ht500006-how-to-enable-virtualization-technology-on-lenovo-computers>

**Step 1: Install WLS2 on Windows**

1. Open Command Prompt with Administrator Privileges and run the command to install WLS2 on your desktop.

wsl.exe –install

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1. It should start downloading and enables the WSL optional features required, fetches the latest WLS Linux Kernel Version and installs Ubuntu as your default Distro.

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**Step 2: Install Ubuntu**

1. **Enable the Windows Subsystem for Linux**

You must first enable the “Windows Subsystem for Linux” optional feature before installing any Linux distributions on Windows.

Using PowerShell as administrator, execute:

Enable-WindowsOptionalFeature -Online -FeatureName VirtualMachinePlatform -NoRestart

1. **Install Ubnutu Linux App**

You can download it directly from the Microsoft Store:

<https://ubuntu.com/wsl>

1b. Login to Ubuntu APP and create a Username / Password

2b. Run the commands to update to the latest code and all updates.

sudo apt update

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sudo apt upgrade -y

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sudo apt install curl

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sudo apt install python3-pip

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* Downloads and installs git for Linux

sudo apt-get install git

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**Step 3: From the Ubuntu Root (or Terminal for MACs) create a local repository and setup the configuration details of your GitHub User (You get this from your GitHub account)**

**3a.** Create a Local Repository that can be pushed to the GitHub Website (This can be any name you want).

git init Cisco1

After it is done initializing you will be able to go into the directory by *cd Cisco1* command.

**3b.** Use the commands below to link your GitHub username and email to the git folder.

git config --global user.name "user\_name"

git config --global user.email "email\_id"

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**Step 4: Login to GitHub and Fork the code**

1. Go to [Intersight\_IAC](https://github.com/scotttyso/intersight_iac) folder click the “fork” button to put the code into the newly created GitHub folder.

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1. This will create a repository for that forked code. The name of the account will be on the top left. Once the repository is created a URL will be given.

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1. Log back into the Ubuntu server and CD into the previously created GitHub folder (Cisco). Use the command below to clone your repository and link it.

git clone https://github.com/qdides01/intersight\_iac.git

git remote add origin <https://github.com/qdides01/intersight_iac.git>

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1. Run the following commands located under the “requirements” section of Easy IaC script. This will need to be run into the new folder “Intersight\_IaC” which was cloned above.

* Launch the Ubutu Server and CD into the Intersight IAC folder you forked. You will run the following command.
* MAC users may need to use Sudo prior to pip install and curl commands.

Cd Cisco1

Cd Intersight\_IaC

pip install -r requirements.txt

curl -SsL <https://github.com/kvz/json2hcl/releases/download/v0.0.6/json2hcl_v0.0.6_linux_amd64> | sudo tee /usr/local/bin/json2hcl > /dev/null && sudo chmod 755 /usr/local/bin/json2hcl && json2hcl -version

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**Step 5: Updating Code**

1. When a new code gets pushed, go into your repository on GitHub and fetch the new code.

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1. Within the terminal console using the command git pull will automatically bring it down.

Git pull

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**Step 6: Run this script using docker: (Optional)**

* You would change the username, email, and .git file location to your repository.

docker run -it ubuntu bash

apt update -y  
apt upgrade -y  
apt install curl -y  
apt install python3-pip -y  
apt-get install git -y  
git init CiscoTest  
cd CiscoTest  
git config —global [user.name](https://user.name/) “user\_name\_here”  
git config --global [user.email](https://user.email/) “email\_here"  
git clone https://github.com/qdides01/intersight\_iac.git  
cd intersight\_iac  
pip install -r requirements.txt  
curl -SsL <https://github.com/kvz/json2hcl/releases/download/v0.0.6/json2hcl_v0.0.6_linux_amd64> | sudo tee /usr/local/bin/json2hcl > /dev/null && sudo chmod 755 /usr/local/bin/json2hcl && json2hcl -version