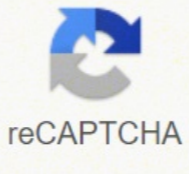




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Python projects examples github

In short - Deploy your Python applications remotely In this example we show how to use GitHub to create a python package (using pip) from various (python) source files. The created package file (*.tar.gz) is then installed and run on your fleet of Raspberry Pis or embedded edge devices. The process starts by pushing the changes of your source code to your GitHub repository. Then, using GitHub actions, your source code is packaged and finally the package is placed into your qbee.io file manager. From there on you can distribute and install it on the group of devices you have specified. We provide a sample test script that uses the newly installed package. As a convenient feature this script is also distributed along with the package. If we want to build an executable (called hi-pi) for our Raspberry Pi we can use the following code The way of packaging is inspired by this tutorial. The package folder structure¶ To build our own python package called py_qbee_tst we need a folder structure as follows: File structure py_qbee_tst/py_qbee_tst/ __init__.py hello.py bye.py bin/ qbee_tst.py setup.py where the source files of the package are located in the subdirectory py_qbee_tst/. In the bin/ directory we have placed a sample script that is installed along with the package. The setup.py gives details about the package to be built. To build our package py_qbee_tst for the installation with pip we can simply run the command which creates a *.tar.gz file containing the package. This package can now be distributed to any target system and being installed via pip3 install py_qbee_tst-0.1.tar.gz We are going to automate this process via GitHub as described in Automatic workflow using GitHub. First we present the toy python project. The package source files to be built¶ Our toy project consists of two python files containing implemented routines and and __init__.py file collecting all relevant routines. hello.py def hello(): return (u'Hello from qbee.io') by.py def bye(): return (u'Goodbye from qbee.io') __init__.py from .hello import * from .bye import * The package setup file¶ In order to create a package, we define a setup file. setup.py from setuptools import setup setup(name='py_qbee_tst', version='0.1', description='test package to run on qbee.io', author='qbee AS', author_email='author@somemail.com', license='MIT', packages=['py_qbee_tst'], scripts=['bin/qbee_tst.py'], zip_safe=False) Testing the installed package¶ For testing purposes we ship a script along with the package that is placed in the bin/ directory. qbee_tst.py #!/usr/bin/env python3 import py_qbee_tst as qbee print(qbee.hello()) print(qbee.bye()) Automatic workflow using GitHub¶ However, we aim to setup an automatic workflow, where we use git as for version control management setup a GitHub runner (using GitHub actions) to build our code once a push is triggered copy the created package to the qbee.io file manager via API calls use the qbee.io file distribution to the distribute (and install) the package on a list of devices Once a repository is set up, before creating a runner, setup GitHub secrets as shown in the following screenshot. There we specify our qbee.io username USERNAME_KEY and password PASSWORD_KEY, as we do not want them to be exposed. Next thing that needs to be done is to create GitHub actions. These run a specific setup script on the so-called runners. You can use the ones provided by GitHub. Alternatively, it is possible to use your own. If you click on "set up a workflow yourself" you can create your workflow. The script we used is the following: python-publish.yml name: Upload Python Package on: push: branches: [main] jobs: deploy: runs-on: ubuntu-latest steps: - uses: actions/checkout@v2 - name: Set up Python uses: actions/setup-python@v2 with: python-version: '3.x' - name: Install dependencies run: | python -m pip install --upgrade pip pip install setuptools wheel - name: Build run: | python setup.py sdist echo 'ls dist/' - name: qbee.io authentication uses: qbee-io/authenticate-action@v1 id: qbee-auth with: login: \${ secrets.USERNAME_KEY } password: \${ secrets.PASSWORD_KEY } - name: qbee.io file upload uses: qbee-io/file-upload-action@v1 with: token: \${ steps.qbee-auth.outputs.token } filename: 'py_qbee_tst-0.1.tar.gz' qbee directory: '/' local directory: 'dist' Note that your credentials aren't revealed as we use GitHub secrets to encrypt them as can be seen in the action output Package installation in qbee.io using file distribution¶ Finally, we distribute our package file to the remote devices as usual with the file distribution. Note that the package installation is very simple. Using pip3 (since we install it for python3) we do not need to unpack the created *.tar.gz package. Via the command pip3 install /home/pi/src/py_qbee_tst-0.1.tar.gz -U the package py_qbee_tst with version 0.1 is installed globally and the flag -U causes an update if the package is already installed. The test script qbee_tst.py which was placed in the bin directory of your source code folder structure is also installed globally in the directory /usr/local/bin. Therefore we add the run command qbee_tst.py | sudo -u pi tee /home/pi/src/py_out.txt to the above install command. We pipe the output to tee with the user pi to create an output file with owner pi. As we can see from the output the installation and test script worked. Compare with the script presented in Testing the installed package Package version For ease of presentation we hard-coded the installation of version 0.1 of our custom py_qbee_tst package. Of course one could change the setup such that always the newest version is installed replacing the older one. If you've ever wanted to learn Git, but didn't want to configure a server, GitHub may be the place to do it. That thought isn't mine alone. During a recent site visit, Groupon's lead talent scout told me the company searches for candidates not on a resume site but, rather, by searching through recent GitHub commits. If that isn't enough reason to learn Git, how about a free tutorial? Today's your lucky day. It will only take about an hour. First, Find a Git Project – or Use Our Sample Git uses a branch-per-issue model; the local copy is the branch you're currently working on. You can commit to it, roll it back and, periodically, push it to the GitHub server. The basic operations are Add, Commit and Push. GitHub is a fee-based corporate repository for code but open-source projects are free. [News: GitHub Cranks Delivery Speeds, Adds Analytics] Today we'll make an open-source project and put it up on GitHub. We just need a little code. To get started, pick a project that has some code and a build step. If you don't have any code, you can use The Factory Simulation, which requires only Ruby to run. Just create a subdirectory with another subdirectory called "lib" and copy the five files in the right places. To understand the code, read my previous article on getting started with Ruby. To run the application, go to the root directory and type "ruby factory_multi3.rb" from the command line. To run the tests, change the directory into the test directory and "ruby run_all.rb." (This is code the author, Matt Heusser, wrote and contributed under open source license with contributions from Zach Spencer.) Next, Create a GitHub Account Go to github.com and sign up. Now download and install the latest version of the command-line tools. From here, we'll create a repository through the Web interface, then import our code into GitHub using command-line tools. Start on the login page, clicking the green "+ New Repository" button at the middle right: Start by creating a repository. If you get stuck, consider GitHub's own bootcamp. Once you've created the repository, start your command line and run these commands. Make sure you change the directory to your code directory, touch README.md Note: Windows has no "touch." Instead, edit and save a blank text file called README.md. git init git add * git commit -m "first commit" git remote add origin Username/(Repository name)/git git push -u origin master Type in your username and password. Congratulations, you have public code on GitHub – at the url of Username/(Repository name) – for the world to see. What Did I Just Do? First, with the "touch" command, we created the readme file that git init displays when you look at the root directory of your repository online. It's in this file that we'll tell users how to run our program. Git init created an empty Git repository in your local directory. "Add *" added every file in that repository, and all subdirectories, to the local repository, while commit committed the changes into a changeset. Notice the -m at the end. That's a version note. If you leave off the -m, then Git will force you to edit the note in vi. Next, we connected our changes to GitHub with Git remote add. If you run your own server, you'll just need to change the URL. Finally, we pushed our changes to GitHub with git push. Now, if I go to (the import I just made), I see that README.md is blank. Let's edit it, adding the following text. You can cut and paste. The Factory Simulation From CIO.com, uploaded by (name), based on the work of Matthew Heusser Matt@xndev.com Distributed under the GNU GPL 2.0 license: Imagine a factory that has a number of stations. Each day, work proceeds through the stations. The stations have high variability but are balanced. We simulate this with a six sided die. Users enter the number of stations and days and the application shows how work processes. The advanced version, factory_multi3.rb allows you to simulate multiple runs of the factory (run it a thousand times and take the averages) or change the number of dice. ## Dependencies This code developed and tested under ruby 2.0.0p247. As long as you have ruby 1.9.3 or higher you should be fine. ## Running the Simulation 1. cd this/project/directory 2. ruby factory.rb or ruby factory_multi3.rb ## Running the Tests You've now made a change to the code that needs to be committed. So: git add README.md git commit -m "Updated the Readme to provide information" git push After this, in your browser: Shift-Refresh Username/(Repository name) and see the README appear. You'll note that the pound-signs (#) are a type of markdown language, creating headings. (For more, see the GitHub Help on Markdown.) After Your Own Repositories GitHub is more than a website. It's a community. You can follow other people, follow project work and receive notifications for changes; GitHub even has some recommendations for where to start. In addition to your own work, you may want to fork the work of others by making a copy of their work for you to tinker with. To fork, view a GitHub repository – below is – click "Fork" at right and you'll have your own version created, along with an automatic redirect. On you own page, which is now you'll see "HTTPS clone URL" on the right side. On the command-line, go to the root of your Git installation and type the following: git clone (URL you copied) Git will create a copy of the repository on your local machine, which you can now add, commit and push. Those changes will be local to your repository and won't impact anyone. When the time is right, issue a pull request, notifying the other person of your changes and giving them a chance to patch up your work. [Feature: Programmers Pick 7 Great GitHub Integrations] Here we focused on a few of the fundamental pieces of Git – namely, how to add/commit/push to GitHub and how to create repositories. That's enough to write your own code to be crawled by recruiters. The hard work is creating the personal projects interesting enough that the recruiters will want to call you back. We've also created a full-functional application, with tests, in GitHub. Our next step should be to integrate that with a continuous integration (CI) system such as Jenkins that pushes to GitHub generate a new build/test run of our software. Let's talk about that another time.

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