

Thursday, 7 December 2023

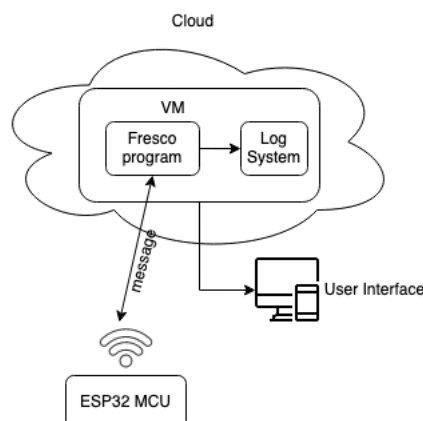
Cloud Deployment

The Cloud Deployment of this solution should be, in a really (really) simplified way, done with the following steps:

- Select a cloud provider, such as AWS, Azure, Google Cloud, or others.
 - Set up a virtual machine or an instance on the cloud platform.
 - Clone the repository on the cloud VM.
 - Install the dependencies required (E.g. libraries)
 - Compile the program using gcc
 - Run the program and test it with local echos
 - If everything goes right, the program should be running and ready for listening to messages

As I said, this is a theoretical step through, since I don't have the whole knowledge and experience with cloud deployment. As far as I know, in order to use the program, we would have to establish an SSH connection with the server and then run the program to use it. I'm sure there must be a better way to do it, for instance, implementing it as a service or something similar.

What I can imagine that would be possible is represented in the following diagram:



The MCU sends the message through Wi-Fi to the Cloud VM, which computes the message. The output could be saved in a log system or sent to other device that the user could access in order to see the results.