

How to integrate AWS IoT Greengrass on top of STM32MP157C-DK2

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1 Article purpose

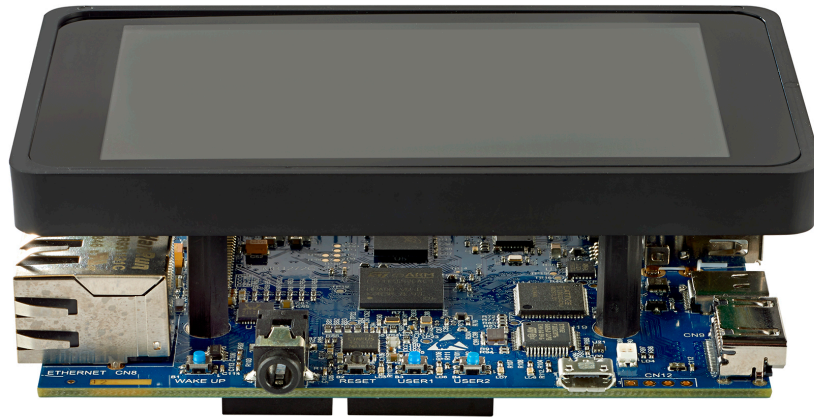
The purpose of this article is to explain how to integrate Amazon Web Service (AWS) IoT Greengrass^[1] on top of OpenSTLinux running on the STM32MP157C-DK2 Discovery kit.

This article explains step by step how to configure Linux[®] software to support AWS IoT Greengrass.

2 Prerequisites

2.1 Hardware prerequisites

- STM32MP157C-DK2



STM32MP157C-DK2

For more information on this STM32 Discovery kit and how to get started with it, go to [Getting started /STM32MP1_boards/STM32MP157C-DK2](#).

2.2 Software prerequisites

The STM32MP157C-DK2 Discovery kit must be populated. To do this, first install the board as described in [STM32MP157C-DK2 Let's start](#) article, then follow the procedure below.

2.3 Module 1: environment setup for Greengrass running on an STM32MP1 system

1. Update your STM32MP1 system for AWS IoT Greengrass. First, run the following commands from a local STM32MP1 terminal window or from an SSH terminal window:

```
Board $> adduser --system ggc_user  
Board $> addgroup --system ggc_group
```

2. Fix the DNS error (only if you are using [STM32MP15 ecosystem release note - v1.0.0](#), not needed for next releases):

```
Board $> rm /etc/resolv.conf  
Board $> ln -s /run/systemd/resolve/resolv.conf /etc/resolv.conf  
Board $> systemctl restart systemd-networkd
```

3. Make sure all required dependencies are present by downloading and running the Greengrass dependency checker from the [AWS IoT Greengrass Samples](#) repository on GitHub. These commands unzip and run the dependency checker script in your \$HOME directory.

```
Board $> cd /home/root/  
Board $> mkdir greengrass-dependency-checker-GGCv1.9.0  
Board $> cd greengrass-dependency-checker-GGCv1.9.0  
Board $> wget https://github.com/aws-samples/aws-greengrass-samples/raw/master/greengrass-  
Board $> unzip greengrass-dependency-checker-GGCv1.9.0.zip  
Board $> modprobe configs  
Board $> ./check_ggc_dependencies | more
```

To display additional entries, press the Spacebar key.



Python 2.7 is required to run this tutorial. The check_ggc_dependencies script might generate warnings about the missing optional Node.js and Java prerequisites. You can ignore them.

Your STM32MP1 configuration is now complete. Proceed with [Module 2: Installing the Greengrass Core Software](#).

3 References

1. [↑ Amazon Web Service \(AWS\) IoT Greengrass \[1\]](#)