< Previous Unit 6 of 8 V Next >



## Exercise - Deploy a pre-built module to the IoT Edge

15 minutes

To deploy the "Simulated Temperature Sensor" module from the Azure Marketplace, use the following steps:

- 1. In the Azure portal, enter **Simulated Temperature Sensor** into the search and open the **Marketplace** result.
- 2. Choose an IoT Edge device to receive this module. On the "Target Devices for IoT Edge Module" page, provide the following information:
  - Subscription: Select the subscription containing the IoT hub you're using
  - **IoT Hub**: Select the name of the IoT hub you're using
  - IoT Edge Device Name: As selected before
- 3. Select **Create**.
- 4. Using the three-step wizard, define precisely how to deploy the module.
  - Add Modules: The Simulated Temperature Sensor module should be autopopulated.
  - Specify Routes: Define how messages are passed between modules and to IoT Hub. If this setting isn't autopopulated to \$upstream, add the following code:

```
JSON

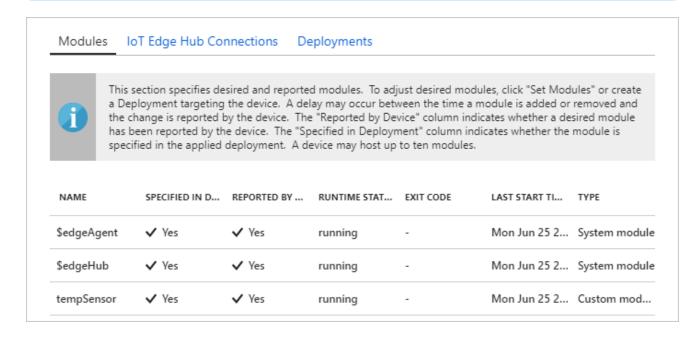
{
    "routes": {
        "route": "FROM /messages/* INTO $upstream"
    }
}
```

- Review Deployment: preview the deployment manifest JSON file that defines all the modules deployed to your IoT Edge device. Ensure it includes the "Simulated Temperature Sensor" module.
- 5. Select your device from the list of IoT Edge devices to see its details.

- On the device details page, scroll down to the Modules section.
- Three modules should be listed: \$edgeAgent, \$edgeHub, and SimulatedTemperatureSensor. The list should look similar to the screenshot below.

## (i) Important

If a module is listed as "in deployment" but not reported by the device, your IoT Edge device is still starting it. Wait a few moments and click "Refresh" at the top of the page.



- 6. Open the command prompt on your IoT Edge device, or use the SSH connection from Azure CLI.
- 7. Confirm that the module deployed from the cloud is running on your IoT Edge device using the sudo iotedge list command.
- 8. View the messages being sent from the temperature sensor module using the command sudo iotedge logs SimulatedTemperatureSensor -f.

## (i) Important

Note that IoT Edge commands are case-sensitive when referring to module names.

9. Clean up resources

## Next unit: Knowledge check

