

How to create a release pipeline with a smoke test

3 minutes

Create a release pipeline that deploys to QA devices and smoke tests the edge runtime in a containerized device.

The steps to achieve this are:

1. Run an instance of [azure-iot-edge-device-container](#), which is configured as a QA device.
2. Probe the IoT hub to ensure the QA device receives the correct deployment configuration and can successfully run all configured modules. This test is contained in [edgeSmokeTest.sh](#).

Add tests

Integration testing is vital for Azure IoT Edge solutions that rely on services to accomplish their functionality.

1. Set up deployment of QA devices using an Azure Kubernetes cluster.
2. Monitor these devices using the `dockerappinsights` module, which is configured in `deployment.template.json`. Completion of this step will require the configuration of Azure Kubernetes Service.

Configure an Azure Kubernetes Service

1. Create an Azure Kubernetes Service cluster in the Azure portal.
2. Add a new stage after **Smoke Test** to the pipeline. Use the **Deploy an application to a Kubernetes cluster by using its Helm chart** template.

In Kubernetes, Helm helps you manage Kubernetes applications. Helm charts help you define, install, and upgrade the Kubernetes application.

Module complete:

Unlock achievement
