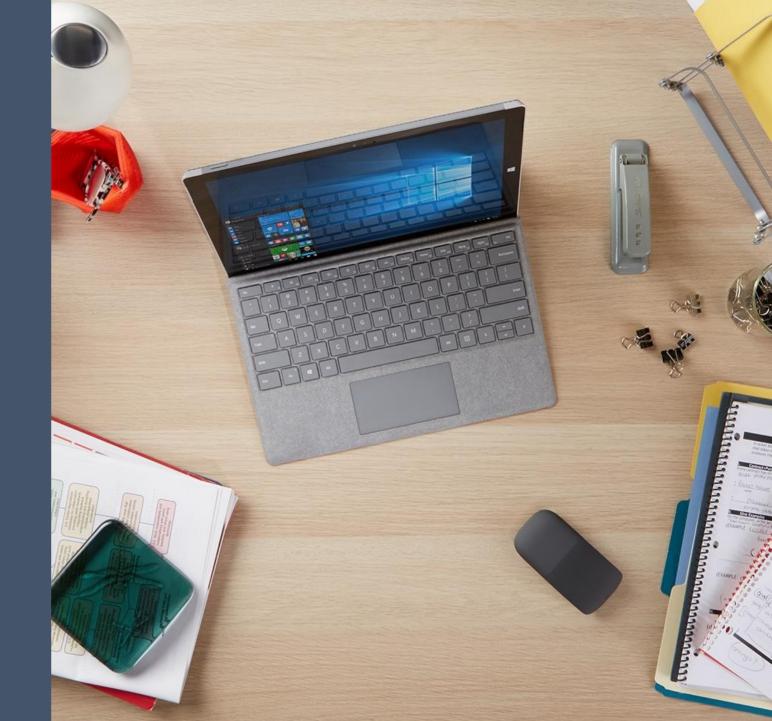
IoT Device Simulation Demo

Sridhar Kothalanka (CSA)

Mar 2020





Connected Factory

By Microsoft

Accelerate your journey to Industrie 4.0 - connect, monitor and control industrial devices for insights using OPC UA to drive operational productivity and profitability.



Remote Monitoring

By Microsoft

Connect and monitor your devices to analyze untapped data and improve business outcomes by automating processes.



Device Simulation

By Microsoft

Streamline your IoT solution development by using simulated IoT devices to both build and test your solution throughout the software development lifecycle.



Predictive Maintenance

By Microsoft

Anticipate maintenance needs and avoid unscheduled downtime by connecting and monitoring your devices for predictive maintenance.

Microsoft IoT solution Accelerators



Device Simulation

By Microsoft

Streamline your IoT solution development by using simulated IoT devices to both build and test your solution throughout the software development lifecycle.

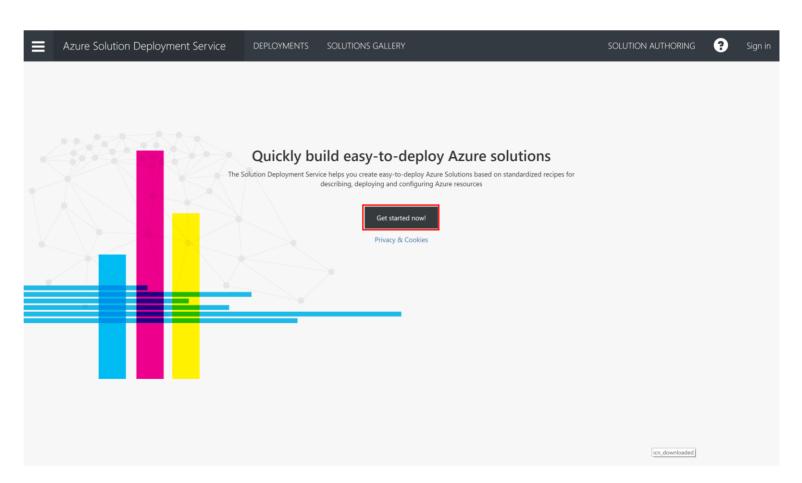
Device Simulation Benefits

- Quickly get a prototype up and running and iterate by adjusting simulated device behavior on the fly
- Validate the solution works as expected from device to solution by simulating real-world device behavior
- Scale test your solution by simulating normal, peak and beyond peak load conditions

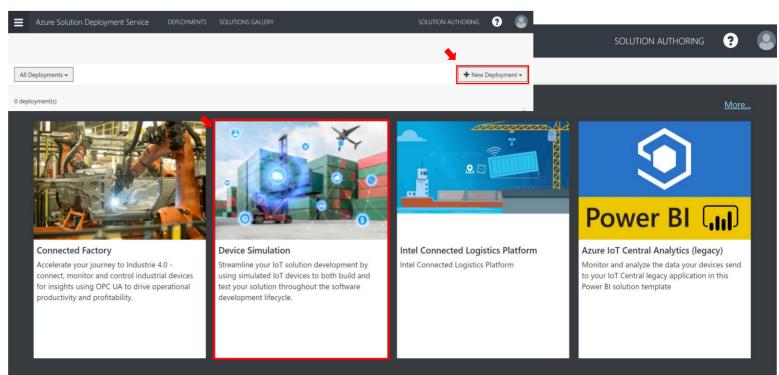
Demo

- 1. Login to Azure Solution Deployment Service
- 2. Select the "Device Simulation" accelerator option
- 3. Create device simulator
- 4. Automatic resources provisioning

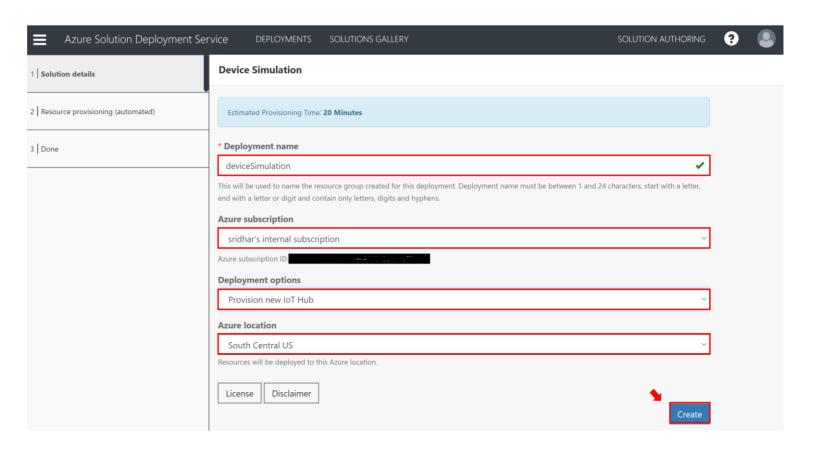




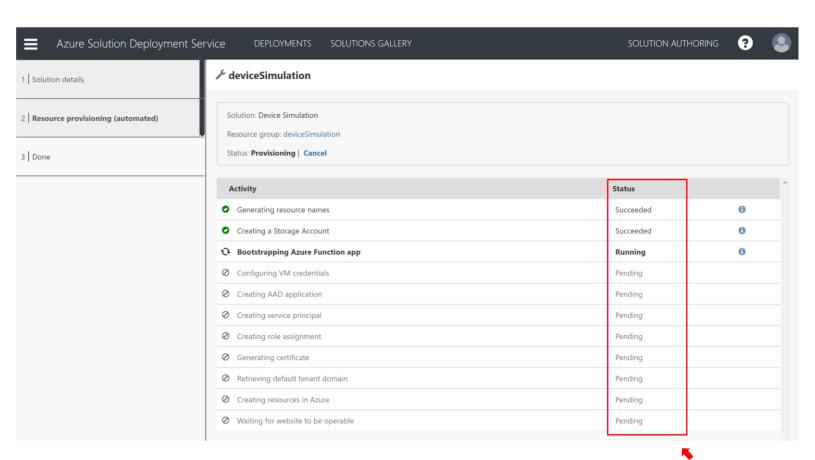






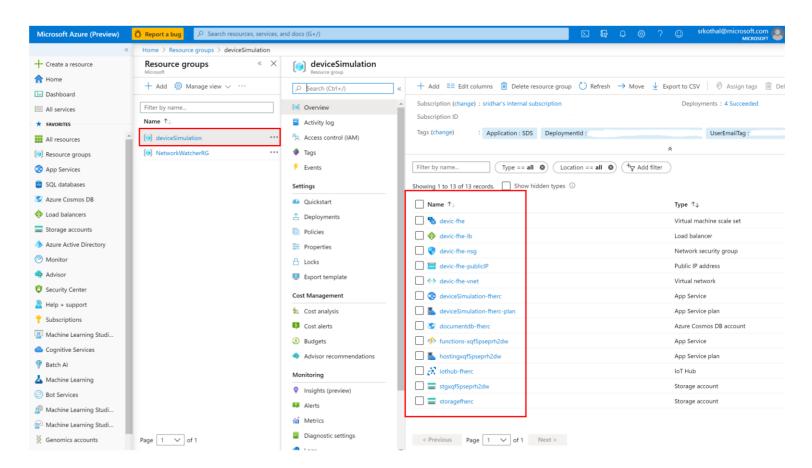






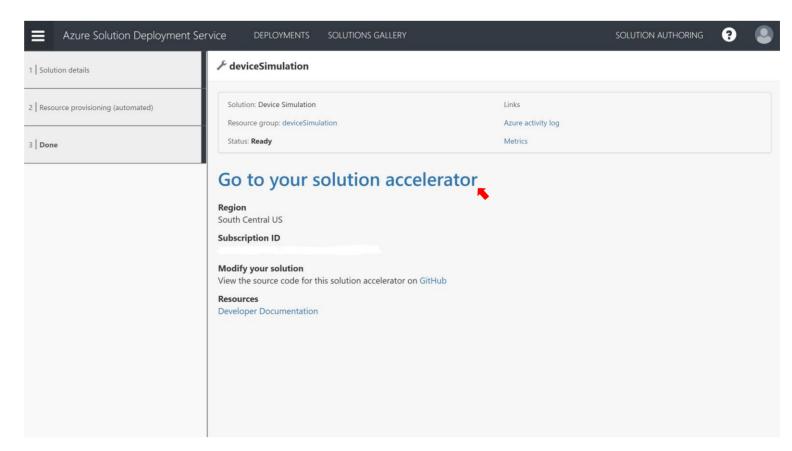
Wait for deployment to complete



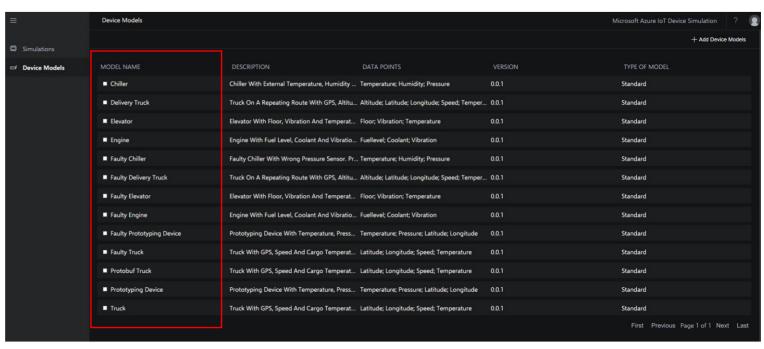






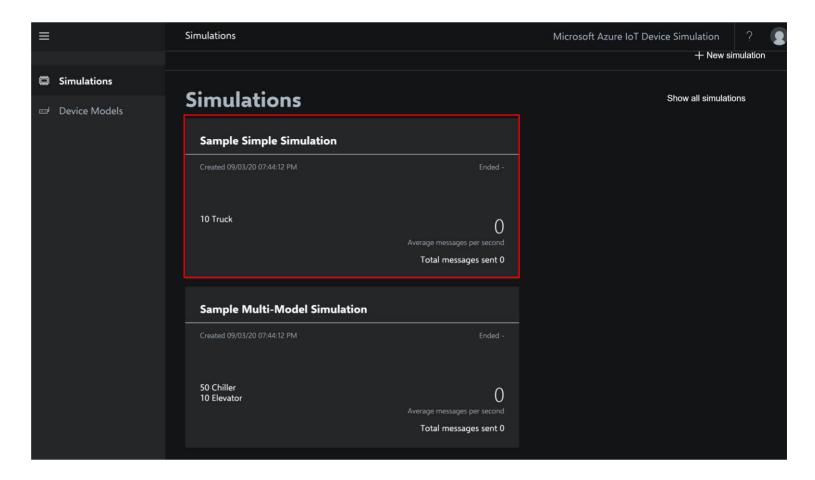




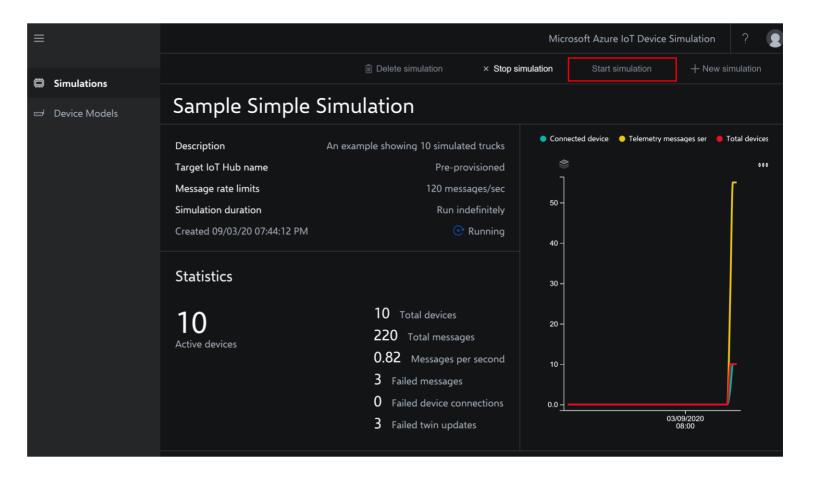






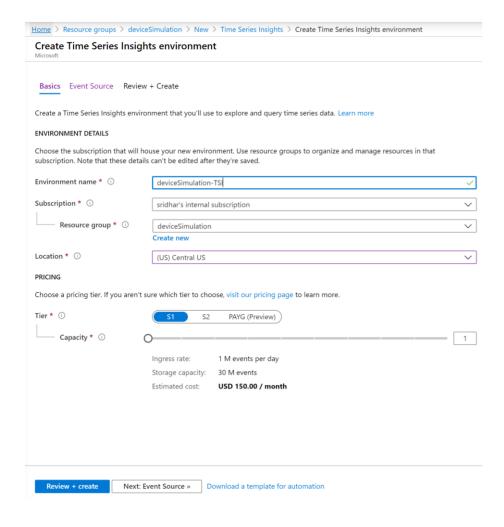


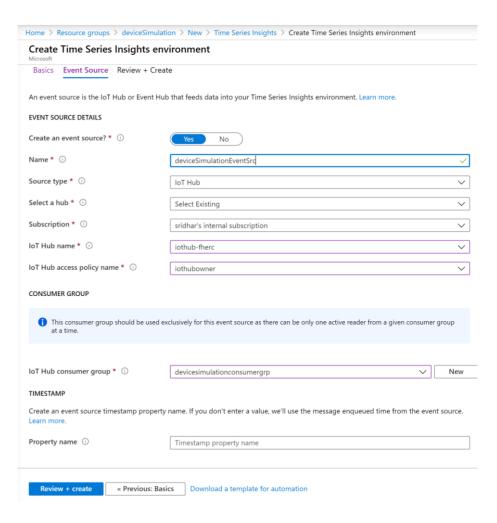




Setup Time Series Insights

Add a Time Series Insights resource to the same resource group and configure it like below

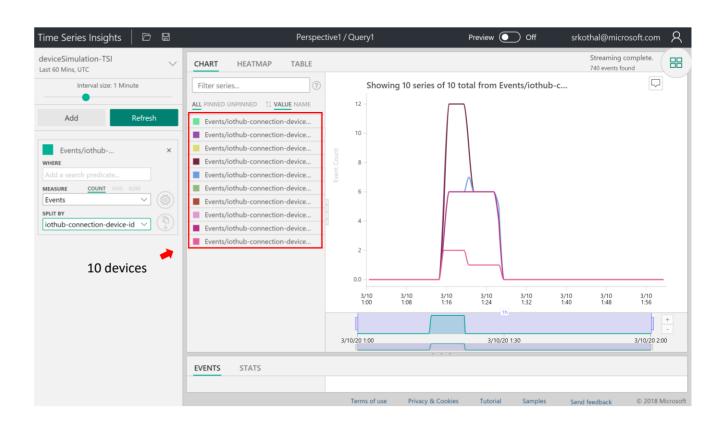




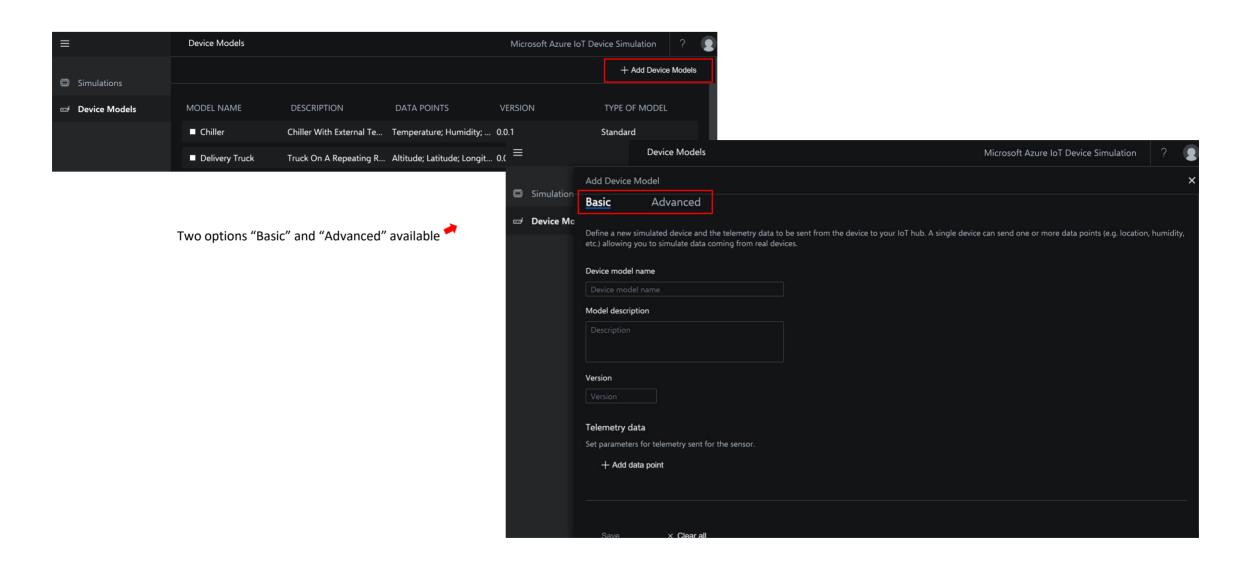
Setup Time Series Analytics

Steps:

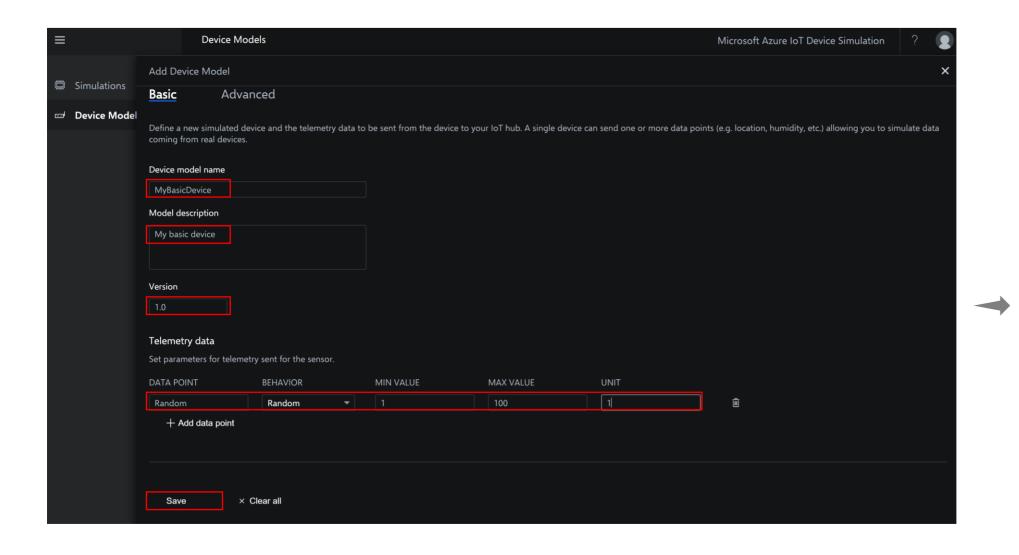
- Create an instance of Time Series Insights
- Point it to the iotHub
- View the events from the devices

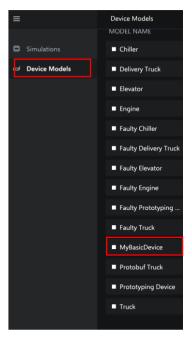


Add Device Models

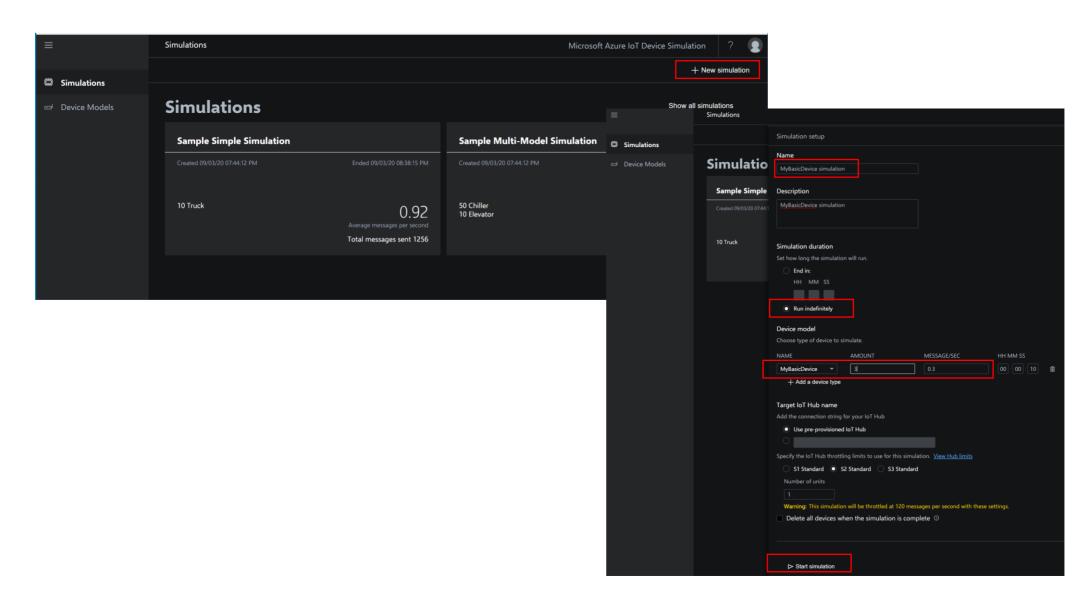


Add "Basic" Device Model

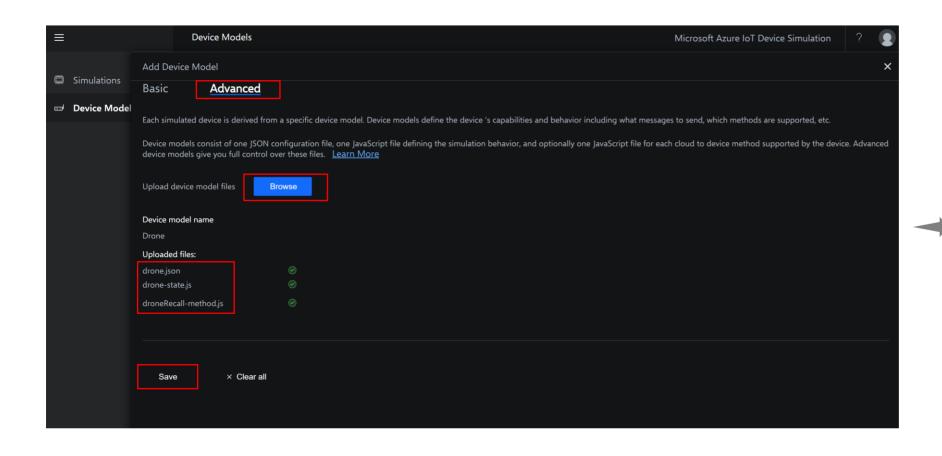


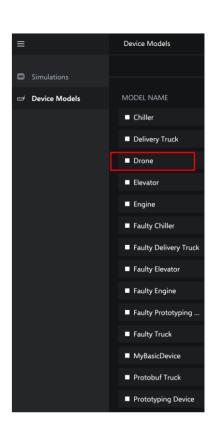


New simulation with "Basic" device model

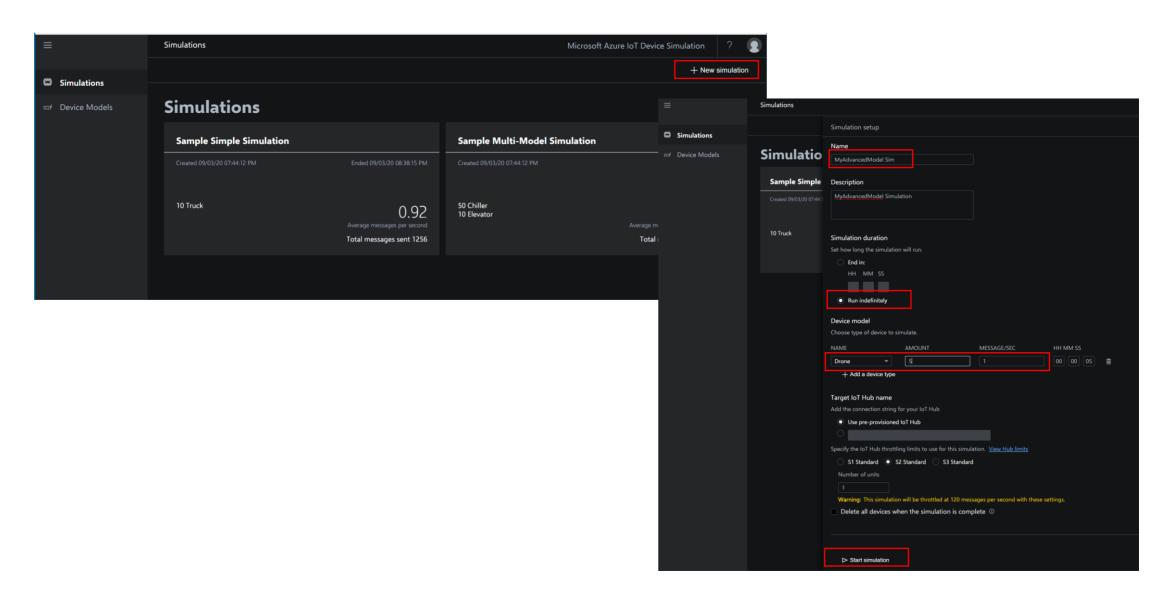


Add "Advanced" device model





New simulation with "Advanced" device model



Q&A