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# AWS IoT Networking Final Project

**Introduction:**

The objectives for this final project is to cover the concepts of AWS device shadowing – which enables to store and retrieve the current state of every IoT device registered in an AWS IoT account; to cover the concepts of AWS IoT jobs -  which is a service that notifies one or more connected devices of a pending job; and finally cover the concepts of AWS device defender – which library enables to send security metrics from IoT devices to the AWS IoT Device Defender service. Within these concepts, demos will be implemented using Visual Studio and built.

**Description:**

# Project Objectives :

Graphical user interface

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# AWS IoT Device Shadow:

Reviewing/Understanding Intro:

Table

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Understand/Review Terminology:

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Demo:

Review the demo’s motive/ reasoning and explanation:

Configure MGTT:

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Graphical user interface, application

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Text

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Configuring the MQTT Broker Connection:

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Opening demo Visual Studio:

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Graphical user interface, text

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Reviewing logging:

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# AWS IoT Jobs

Reviewing/ understanding introduction:

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Reviewing terminology:

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Starting Demo:

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Pulling demo file:

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Graphical user interface, text

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# AWS IoT Device Defender

Introduction review:

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Starting Demo/ Reviewing intro of demo:

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Text

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Text

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**References:**

<https://www.freertos.org/iot-device-defender/index.html>

<https://aws.amazon.com/iot/>

**Conclusion:**

In conclusion, I was able to learn about the concepts of AWS device shadowing; concepts of AWS IoT, and cover the concepts of AWS device defender libraries reviewing information in introductions and using visual studio in order to implement demos. I was also able to understand the great content of AWS IoT libraries and run multiple demos ; creating an AWS account in order to add defender devices and share access or permission policies.