aws re: Invent

SEC345-R

Protecting your IoT fleet

Hong Pham

Solutions Architect Amazon Web Services

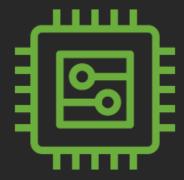




What's ready to go



A pre-provisioned IoT device



A configured AWS IoT thing that sends data to AWS IoT Core



A temporary AWS account

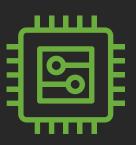


An AWS Identity and Access Management (IAM) user

Definitions



IoT device – The physical IoT device out in the world



AWS IoT thing – A <u>representation</u> of a specific device or logical entity

- Physical device or sensor
- Logical entity like an instance of an application



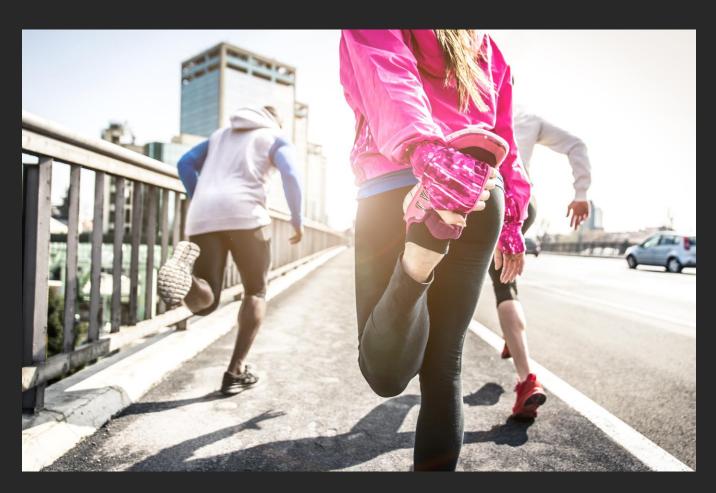
AWS IoT thing shadow – A JSON document used to store and retrieve current state information

Get and set the state of a device, regardless of immediate connectivity

If you choose to accept this challenge

https://tinyurl.com/Your-IoT-Fleet

- 1. Use the AWS Management Console to validate a "thing" exists and how it is used
- 2. See how certificates authorize things to talk to AWS IoT Core
- 3. Evaluate device groups to set permissions on groups of things
- 4. Monitor thing activity from the console
- 5. Create and review audit schedules for your account
- 6. Use AWS IoT Device Defender to detect rule-based and anomaly-based deviations in behavior
- 7. Enable automated remediations in response to these events



AWS Event Engine

https://dashboard.eventengine.run

The AWS Event Engine was created to help AWS teams run Workshops, GameDays, Bootcamps, Immersion Days, and other events that require hands-on access to AWS accounts



Event Engine Login

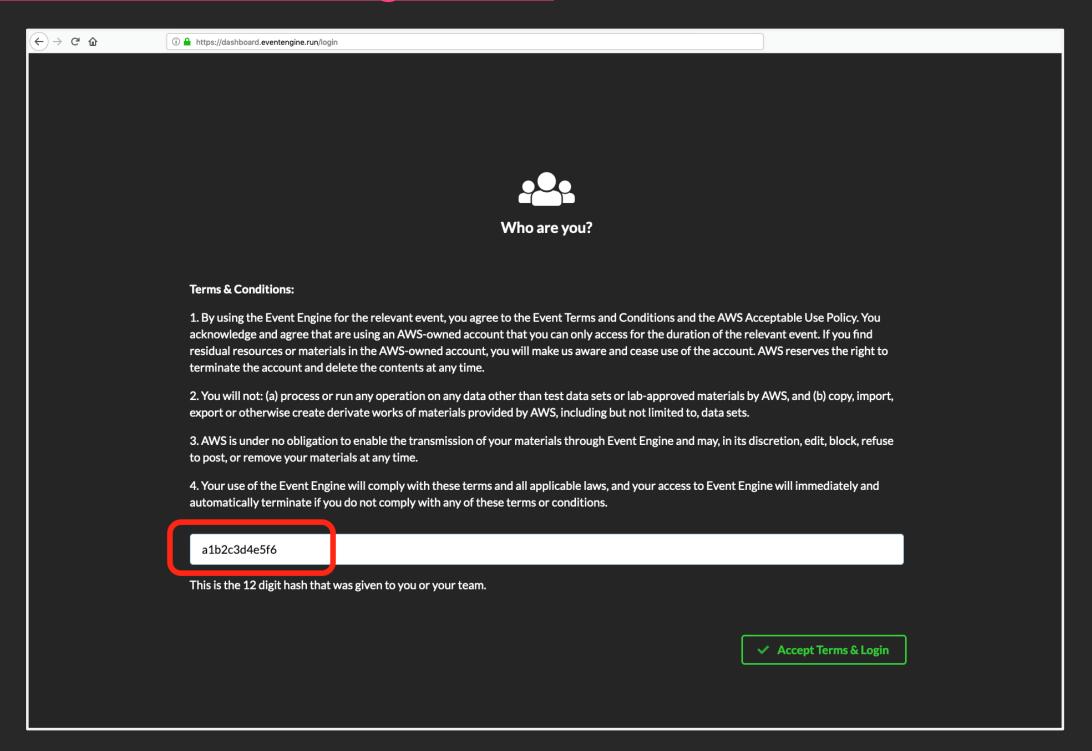
ARC101-R2 Introduction to AWS

Team Hash: a1b2c3d4e5f6

Go to: https://dashboard.eventengine.run
Please contact your event operator if you have any questions!

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https://dashboard.eventengine.run



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Thank you!

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