



AWS IoT Core ▾

Overview

Features

Pricing

Getting Started

Resources

FAQs

IoT Core Partners ▾

billed separately for usage of Connectivity, Messaging, Device Shadow usage (device state storage), Registry usage (device metadata storage), and Rules Engine usage (message transformation and routing). This approach provides you with transparency and a low price regardless of your workload type, because you only pay for the specific AWS IoT Core components you use.

Estimate your monthly bill using the [AWS IoT Core Calculator](#).

Pricing at a Glance

CONNECTIVITY

Connectivity provides a secure, authenticated connection between your devices and AWS IoT Core. Connectivity is metered in 1 minute increments and is based on the total time your devices are connected to AWS IoT Core.

Connectivity Pricing (per million minutes of connection)

| US East (N.Virginia) | US East (Ohio) | US West (Oregon) | AWS GovCloud (US) | EU (Ireland) | EU (Frankfurt) | EU (London) | APAC (Mumbai) | APAC (Sydney) | APAC (Seoul) |
|-------------------------|-------------------|---------------------|-------------------------|-----------------|-------------------|----------------|------------------|------------------|-----------------|
| \$0.080 | \$0.080 | \$0.080 | \$0.100 | \$0.080 | \$0.096 | \$0.096 | \$0.092 | \$0.132 | \$0.091 |



AWS IoT Core ▾

Overview

Features

Pricing

Getting Started

Resources

FAQs

IoT Core Partners ▾

| | | | | | | | | | |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|-----|
| Up to 1 billion messages | \$1.00 | \$1.00 | \$1.00 | \$1.20 | \$1.00 | \$1.20 | \$1.20 | \$1.05 | \$1 |
| Next 4 billion messages | \$0.80 | \$0.80 | \$0.80 | \$0.96 | \$0.80 | \$0.96 | \$0.96 | \$0.84 | \$1 |
| Over 5 billion messages | \$0.70 | \$0.70 | \$0.70 | \$0.84 | \$0.70 | \$0.84 | \$0.84 | \$0.74 | \$1 |

You may send and receive messages up to 128 kilobyte (KB) in size. Messages are metered in 5 KB increments. For example, an 8 KB message is metered as two messages. [Details](#)

DEVICE SHADOW & REGISTRY

The Device Shadow stores the desired state or actual state of a device, and the Registry is used to name and manage devices. Use of Device Shadow and Registry is metered by the number of operations that access or modify Device Shadow or Registry data.

Device Shadow and Registry Pricing (per million operations)



AWS IoT Core ▼

Overview

Features

Pricing

Getting Started

Resources

FAQs

IoT Core Partners ▼

rate, with a minimum of one action per rule.

Rules Engine Pricing (per million rules triggered / per million actions executed)

| | US East (N.Virginia) | US East (Ohio) | US West (Oregon) | AWS GovCloud (US) | EU (Ireland) | EU (Frankfurt) | EU (London) | APAC (Mumbai) | APAC (Sydney) |
|------------------|-------------------------|----------------------|---------------------|-------------------------|-----------------|-------------------|----------------|------------------|------------------|
| Rules triggered | \$0.15 | \$0.15 | \$0.15 | \$0.18 | \$0.15 | \$0.18 | \$0.18 | \$0.158 | \$0.2 |
| Actions executed | \$0.15 | \$0.15 | \$0.15 | \$0.18 | \$0.15 | \$0.18 | \$0.18 | \$0.158 | \$0.2 |

Rules and actions are metered in 5 KB increments of the message size. For example, a rule that processes a 5 KB message and executes no action is metered as one rule and one action, and a rule that processes an 8 KB message and executes two actions is metered as two rules and four actions. [Details](#)

You do not incur Messaging costs outlined in the Messaging section for messages sent to Rules Engine via [Basic Ingest](#).

AWS FREE TIER WITH AWS IOT CORE

- 2,250,000 minutes of connection



AWS IoT Core ▾

Overview

Features

Pricing

Getting Started

Resources

FAQs

IoT Core Partners ▾

each month across all regions and is automatically applied to your bill. Note that free usage does not accumulate from one billing period to the next.

Pricing Examples for AWS IoT Core Components

CONNECTIVITY CHARGES

Pricing Example 1

Your cost to connect 10,000 devices to AWS IoT Core for 30 days would be calculated as follows:

- Minutes of connection = 10,000 connections * 60 minutes/hour * 24 hours/day * 30 days = 432,000,000 minutes of connection
- **Total Connectivity Charges = 432,000,000 minutes of connection * \$0.08/1,000,000 minutes of connection = \$34.56**

Pricing Example 2

Your cost to connect 10,000 devices to AWS IoT Core for 15 minutes each hour for 30 days would be calculated as follows:

- Minutes of connection = 10,000 connections * 15 minutes/hour * 24 hours/day * 30 days = 108,000,000 minutes of connection
- **Total Connectivity Charges = 108,000,000 minutes of connection * \$0.08/1,000,000 minutes of connection = \$8.64**

MESSAGING CHARGES



AWS IoT Core ▾

Overview

Features

Pricing

Getting Started

Resources

FAQs

IoT Core Partners ▾

- **Total Messaging Charges = \$0.00072 + \$0.0036 = \$0.00432**

Pricing Example 2

Over 30 days, your device publishes ten 8 KB messages every hour to AWS IoT Core. Four out of the ten messages are sent to Rules Engine via [Basic Ingest](#). Your messaging charges would be calculated as follows:

Publishing cost to the AWS IoT Core

- Since each message is larger than 5 KB, it is metered as 2 (5 KB) messages.
- Published message count via Basic Ingest: $2 * (4 \text{ messages/hour} * 24 \text{ hours/day} * 30 \text{ days}) = 5,760 \text{ messages}$
- Remaining published message count: $2 * (6 \text{ messages/hour} * 24 \text{ hours/day} * 30 \text{ days}) = 8,640 \text{ messages}$
- Messaging charges for published messages via Basic Ingest: Free
- Messaging charges for remaining published messages: $8,640 \text{ messages} * \$1/1,000,000 \text{ messages} = \0.00864
- **Total Messaging Charges = Messaging charges for published messages via Basic Ingest + Messaging charges for remaining published messages = \$0 + \$0.00864 = \$0.00864**

DEVICE SHADOW & REGISTRY CHARGES

Pricing Example 1

Your devices trigger 1 million Device Shadow updates. The Device Shadow record size for each update is 1.5 KB. Your charges would be calculated as follows:



AWS IoT Core ▾

Overview

Features

Pricing

Getting Started

Resources

FAQs

IoT Core Partners ▾

Your devices trigger 1 million rules. Each rule forwards data to Amazon S3, thereby invoking one action. Your charges would be calculated as follows:

- Rules charges = 1,000,000 rules triggered * \$0.15/1,000,000 rules triggered = \$0.15
- Actions charges = 1,000,000 rules triggered * 1 action executed/rule triggered * \$0.15/1,000,000 actions executed = \$0.15
- **Total Rules Engine Charges = Rules charges + Actions charges = \$0.15 + \$0.15 = \$0.30**

Pricing Example 2

Your devices trigger 1 million rules. Each rule calls an external function and then forwards data to Amazon S3, thereby invoking two actions. Your charges would be calculated as follows:

- Rules Charges = 1,000,000 rules triggered * \$0.15/1,000,000 rules triggered = \$0.15
- Actions Charges = 1,000,000 rules triggered * 2 actions executed/rule triggered * \$0.15/1,000,000 actions executed = \$0.30
- **Total Rules Engine Charges = Rules Charges + Actions Charges = \$0.15 + \$0.30 = \$0.45**

Pricing Example for a Workload Using All AWS IoT Core Components

100,000 devices maintain a constant connection to AWS IoT Core for 30 days. Each day, each device exchanges 325 messages of 1 KB in size. Of the 325 messages exchanged, 100 trigger a Device Shadow update and 200 trigger a rule that executes one action. Your charges would be calculated as follows:

CONNECTIVITY CHARGES



AWS IoT Core ▼

Overview

Features

Pricing

Getting Started

Resources

FAQs

IoT Core Partners ▼

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- Rules Triggered = 100,000 devices * 200 rules triggered/device-day * 30 days = 600,000,000 rules triggered
 - Actions Executed = 600,000,000 rules triggered * 1 action executed/rule triggered = 600,000,000 actions executed
 - Rules Charges = 600,000,000 rules triggered * \$0.15/1,000,000 rules triggered = \$90.00
 - Actions Charges = 600,000,000 actions executed * \$0.15/1,000,000 actions executed = \$90.00
 - **Total Rules Engine charges = \$90.00 + \$90.00 = \$180.00**

TOTAL WORKLOAD CHARGES

- Total Charges = \$346.60 + \$975.00 + \$375.00 + \$180.00 = \$1,876.60

Please note, AWS IoT Core does not involve the resale of telecommunication services and connectivity will be provided by third parties.

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AWS IoT Core ▼

Overview

Features

Pricing

Getting Started

Resources

FAQs

IoT Core Partners ▼

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AWS IoT Core ▼

[Overview](#)

[Features](#)

[Pricing](#)

[Getting Started](#)

[Resources](#)

[FAQs](#)

[IoT Core Partners ▼](#)

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AWS IoT Core ▾

Overview

Features

Pricing

Getting Started

Resources

FAQs

IoT Core Partners ▾

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