**AWS EventBridge Notes**

EventBridge event buses are well suited for many-to-many routing of events between event-driven services. [EventBridge Pipes](https://docs.aws.amazon.com/eventbridge/latest/userguide/eb-pipes.html) is intended for point-to-point integrations between these [sources](https://docs.aws.amazon.com/eventbridge/latest/userguide/eb-pipes-event-source.html) and [targets](https://docs.aws.amazon.com/eventbridge/latest/userguide/eb-pipes-event-target.html), with support for advanced transformations and [enrichment](https://docs.aws.amazon.com/eventbridge/latest/userguide/pipes-enrichment.html).

You can archive, or save, events and then replay them at a later time from the archive. Archiving is useful for testing an application because you have a store of events to use rather than having to wait for new events.

**What is a schema?**

A schema represents the structure of an event, and commonly includes information such as the title and type of each piece of data. For example, in a review on a product website, a schema might include fields for the reviewer’s name, user id, and review description, and that the name is a text string, and the user id is an integer. The event schema is important for developers as it shows what data is contained in the event, and allows them to write code based on that data.

**Schema registry:**

A schema registry stores a collection of schemas. You can use schema registry to search for, find, and track different schemas used and generated by your applications. Schemas for all AWS sources supported in EventBridge are automatically visible in your schema registry.

## Schema discovery:

## Schema discovery automates the process of finding schemas and adding them to your registry. When schema discovery is enabled for an EventBridge event bus, the schema of each event sent to the bus is automatically added to the registry.

## The default event bus in your AWS account only allows events from one account. You can grant additional permissions to an event bus by attaching a resource-based policy to it. With a resource-based policy, you can allow PutEvents, PutRule, and PutTargets API calls from another account. You can also use IAM conditions in the policy to grant permissions to an organization, apply tags, or filter events to only those from a specific rule or account. You can set a resource-based policy for an event bus when you create it or afterward.

## Testing an event pattern using the EventBridge Sandbox

## Content filtering in Amazon EventBridge event patterns

# **Identity and Access Management Amazon EventBridge and AWS:**

To access Amazon EventBridge, you need credentials that AWS can use to authenticate your requests. Your credentials must have permissions to access AWS resources, such as retrieving event data from other AWS resources. The following sections provide details on how you can use AWS Identity and Access Management (IAM) and EventBridge to help secure your resources by controlling who can access them.

You manage access to EventBridge resources such as [rules](https://docs.aws.amazon.com/eventbridge/latest/userguide/eb-rules.html) or [events](https://docs.aws.amazon.com/eventbridge/latest/userguide/eb-events.html) by using [identity-based](https://docs.aws.amazon.com/eventbridge/latest/userguide/eb-use-identity-based.html) or [resource-based](https://docs.aws.amazon.com/eventbridge/latest/userguide/eb-use-resource-based.html) policies.

**Log and monitor in Amazon EventBridge:**

Amazon EventBridge works with AWS CloudTrail, a service that records actions from AWS services. CloudTrail captures API calls made by or on behalf of your AWS account from the EventBridge console and to EventBridge API operations.

EventBridge sends metrics to Amazon CloudWatch every minute for everything from the number of matched [events](https://docs.aws.amazon.com/eventbridge/latest/userguide/eb-events.html) to the number of times a [target](https://docs.aws.amazon.com/eventbridge/latest/userguide/eb-targets.html) is invoked by a [rule](https://docs.aws.amazon.com/eventbridge/latest/userguide/eb-rules.html).

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