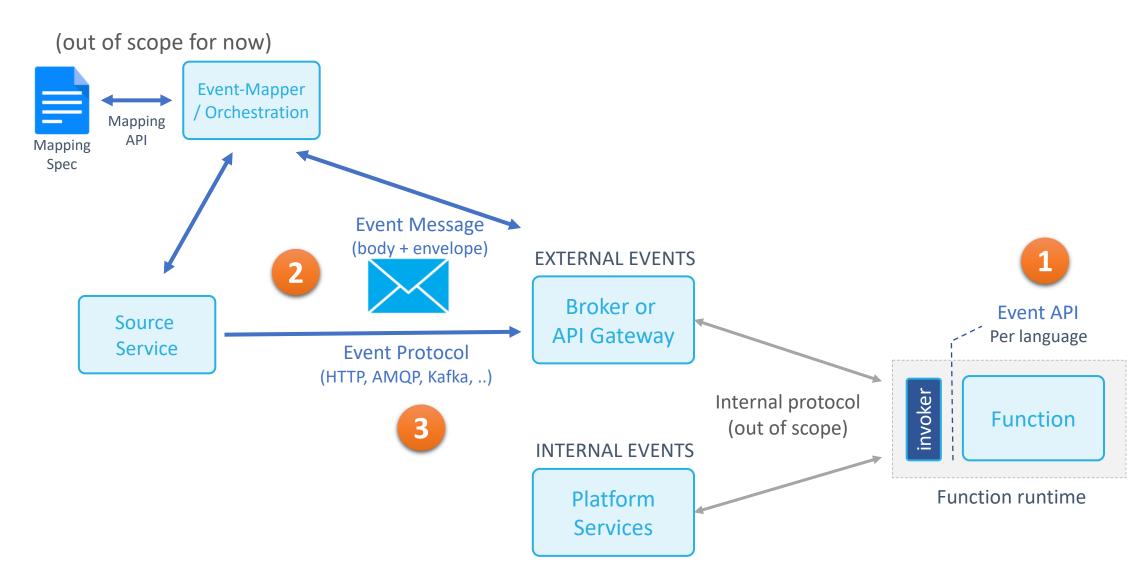
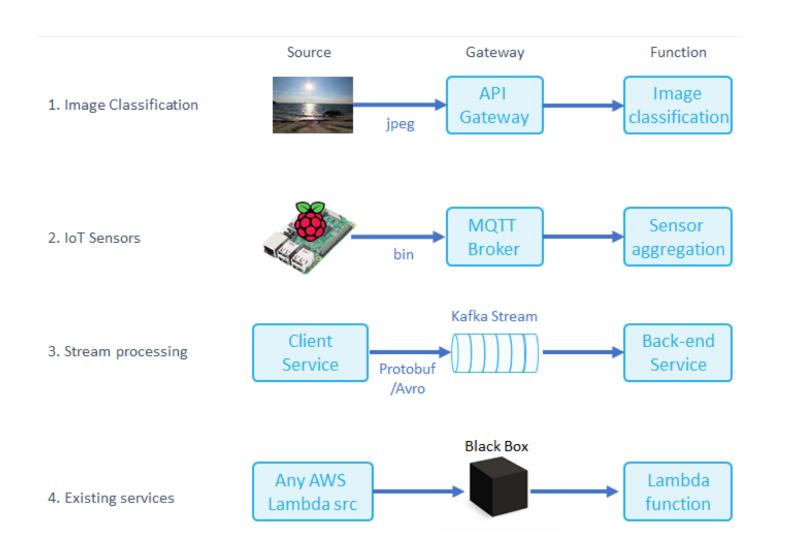
Cloud Events Problem Scope and Relations



Determining Your Event Metadata Today

```
function getLambdaEventSource(event) {
   if (event.Records && event.Records[0].cf) return 'isCloudfront';
  if (event.configRuleId && event.configRuleName && event.configRuleArn) return 'isAwsConfig';
  if (event.Records && (event.Records[0].eventSource === 'aws:codecommit')) return 'isCodeCommit';
  if (event.authorizationToken === "incoming-client-token") return 'isApiGatewayAuthorizer';
  if (event.StackId && event.RequestType && event.ResourceType) return 'isCloudFormation';
  if (event.Records && (event.Records[0].eventSource === 'aws:ses')) return 'isSes';
  if (event.pathParameters && event.pathParameters.proxy) return 'isApiGatewayAwsProxy';
  if (event.source === 'aws.events') return 'isScheduledEvent';
  if (event.awslogs && event.awslogs.data) return 'isCloudWatchLogs';
  if (event.Records && (event.Records[0].EventSource === 'aws:sns')) return 'isSns';
  if (event.Records && (event.Records[0].eventSource === 'aws:dynamodb')) return 'isDynamoDb';
  if (event.records && event.records[0].approximateArrivalTimestamp) return 'isKinesisFirehose';
  if (event.records && event.deliveryStreamArn && event.deliveryStreamArn.startsWith('arn:aws:kinesis:'))
return 'isKinesisFirehose':
  if (event.eventType === 'SyncTrigger' && event.identityId && event.identityPoolId) return
'isCognitoSyncTrigger';
   if (event.Records && event.Records[0].eventSource === 'aws:kinesis') return 'isKinesis';
  if (event.Records && event.Records[0].eventSource === 'aws:s3') return 'isS3';
  if (event.operation && event.message) return 'isMobileBackend';
```

Events May Go Beyond Text & JSON



```
type Event interface {
  // GetID returns the unique ID of the event
  GetID() ID
  // GetTriggerInfo retruns a trigger info provider (stuff from the event listener, protocol specific)
  GetTriggerInfo() TriggerInfoProvider
  // GetSchema returns the Event Body Schema
  GetSchema() string
  // GetContentType returns the content type of the body (data blob)
  GetContentType() string
  // GetBody returns the body (data blob) of the event
  GetBody() []byte
  // GetHeader returns the header (context attributes) by name
  GetHeader(string) string
  // GetHeaders loads all headers (context attributes) into a map of string
  GetHeaders() map[string]string
  // GetField returns the field (within the data/body) by name/path as an interface{}
  GetField(string) interface{}
 // GetFields loads all data/body fields into a map of string / interface{}
  GetFields() map[string]interface{}
  // GetTimestamp returns when the event originated
  GetTimestamp() time.Time
```

Example Event API (Go)

Event API provide a way to pass the event envelope metadata (Schema, type, source, ..) and the event message data/body

The API should not expose any event/schema specific information, the event data is accessed via the data/body or the deserialized version of the data (e.g. using Fields method)

Envelop attributes are provided as a map of strings to allow extensibility / optional data