
AWS
re:Invent
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API002

Advanced patterns with Amazon EventBridge

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AWS

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About me

Senior Developer Advocate – AWS Serverless

Event-driven architectures and learn in public

Father of two

First Vegas and re:Invent



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Agenda

- Enrichment patterns with Amazon EventBridge
- Listening to schema and rule changes
- Resources

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Enrichment patterns

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Why enrich events?

- Downstream consumers want to know more information
- Keeps contracts simple
- Keep enrichment responsibility out of consumer



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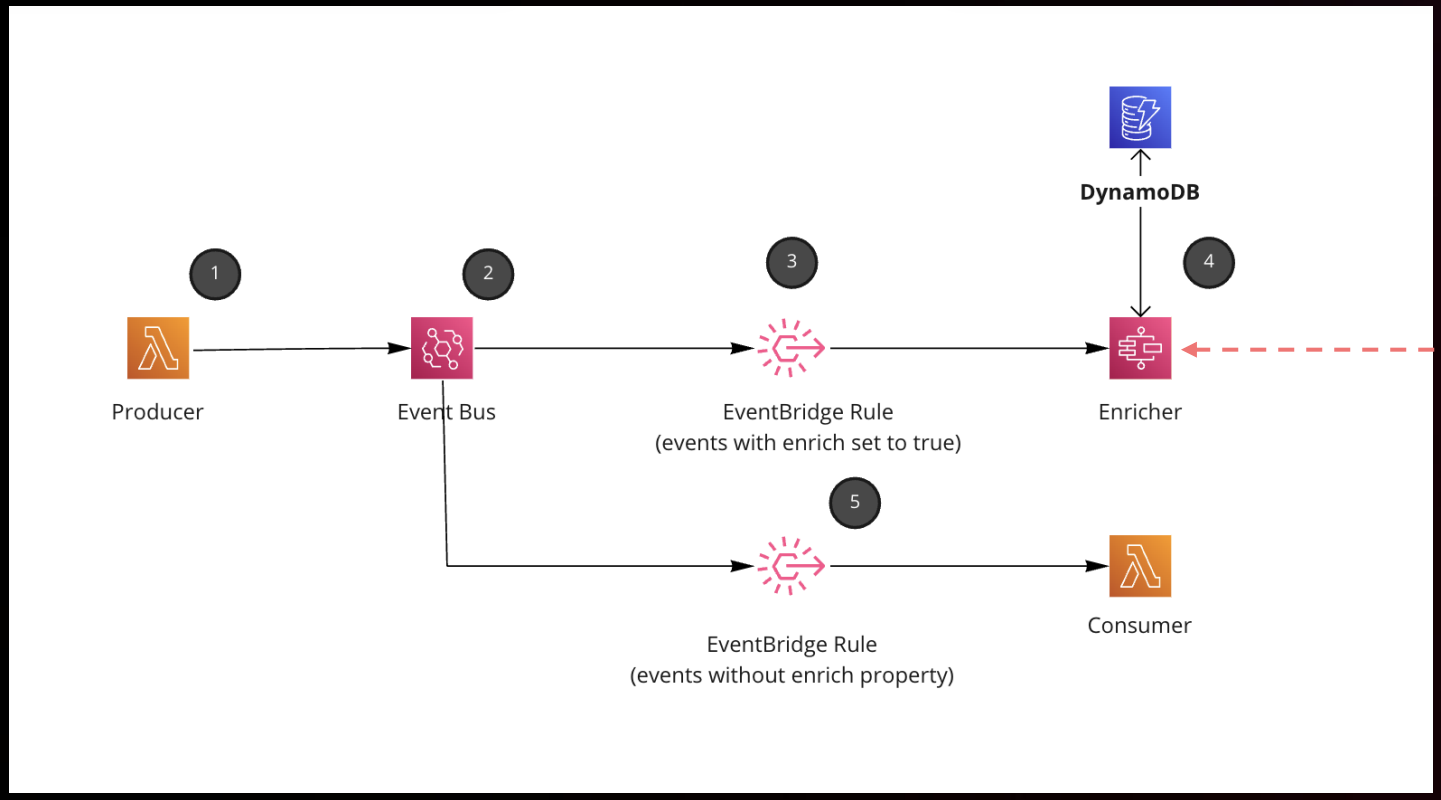
Enrichment with rules and metadata

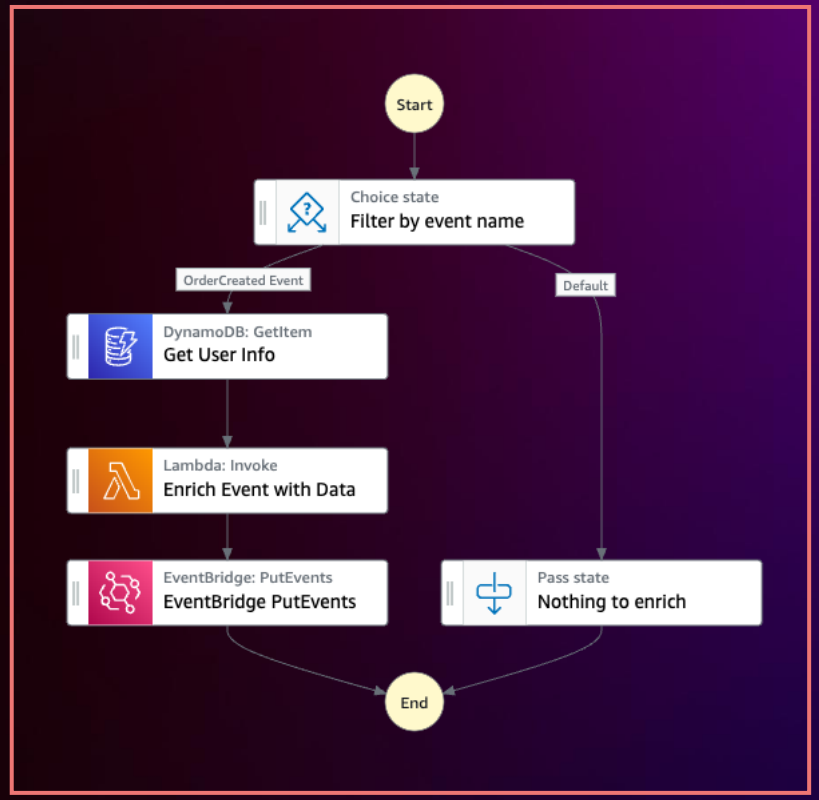
```
{
    "version": "0",
    "id": "0d079340-135a-c8c6-95c2-41fb8f496c53",
    "detail-type": "UserCreated",
    "source": "myapp.users",
    "account": "123451235123",
    "time": "2022-02-01T18:41:53Z",
    "detail": {
      "metadata": {
        "correlation_id": "dddd9340-135a-c8c6-95c2-41fb8f492222",
        "service": "orders-service",
        "domain": "SHOP",
        "enrich": true
      },
      "data": {
        "user": {
          "id": "09586e5c-9983-4111-8395-2ad5cfd3733b"
        }
      }
    }
}
```

enrich data

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Use case: Enriching events with AWS Step Functions





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Listening to schema and rule changes

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Why listen for schema and rule changes?

- Downstream consumers notified when schema changes
- Automated jobs run when contracts change
- Notified when new consumers are created



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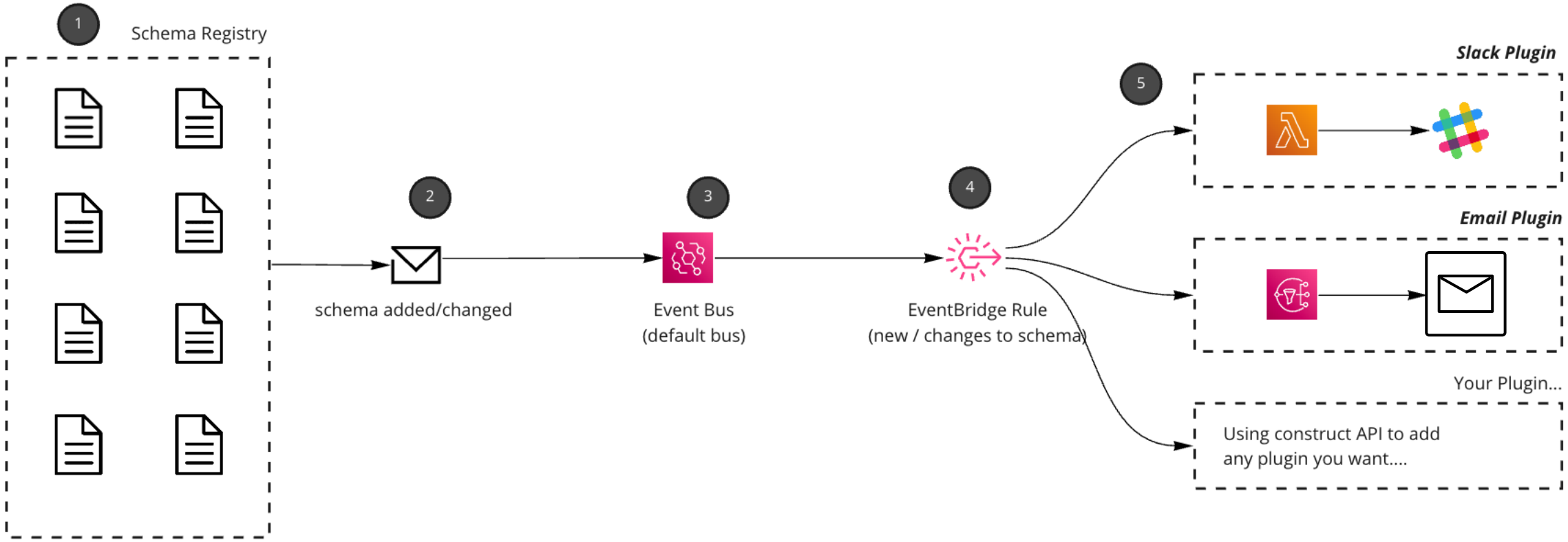
Schema change event

```
{
  "version": "0",
  "id": "e63358ae-cc66-303d-a985-8cc923c8196e",
  "detail-type": "Schema Version Created",
  "source": "aws.schemas",
  "account": "123456789012",
  "time": "2022-09-12T08:01:27Z",
  "region": "us-west-2",
  "resources": [
      "arn:aws:schemas:us-west-2:123456789012:schema/discovered-
schemas/myapp.users@UserCreated "
  ],
  "detail": {
      "SchemaName": "myapp.users@UserCreated",
      "SchemaType": "OpenApi3",
      "RegistryName": "discovered-schemas",
      "CreationDate": "2022-09-12T08:01:18Z",
      "Version": "1"
  }
}
```

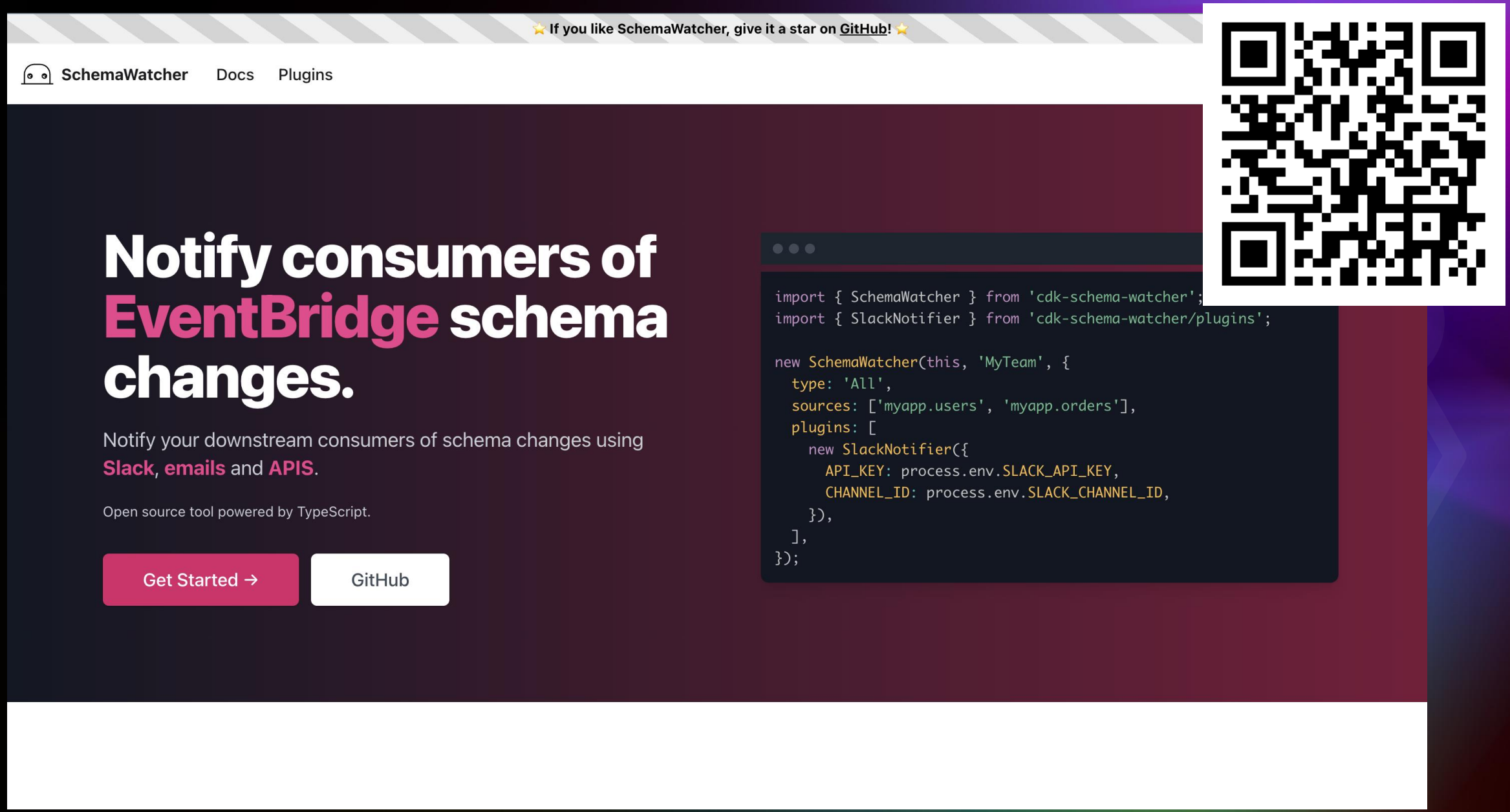
aws events

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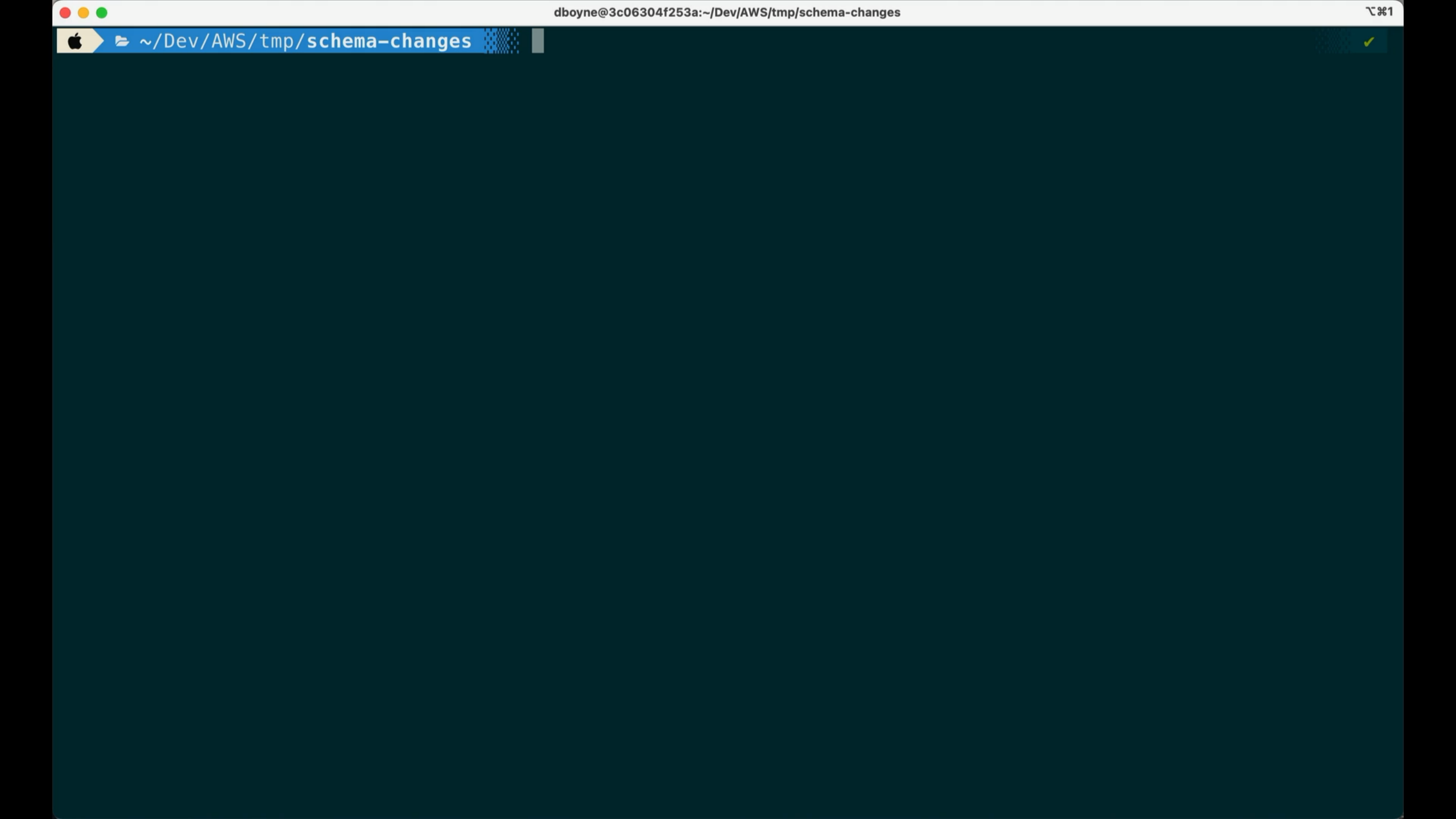
Use case: Notify consumers of schema changes



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dboyne@3c06304f253a:~/Dev/AWS/tmp/schema-changes
⌥⌘1
~/Dev/AWS/tmp/schema-changes

Exploring serverless

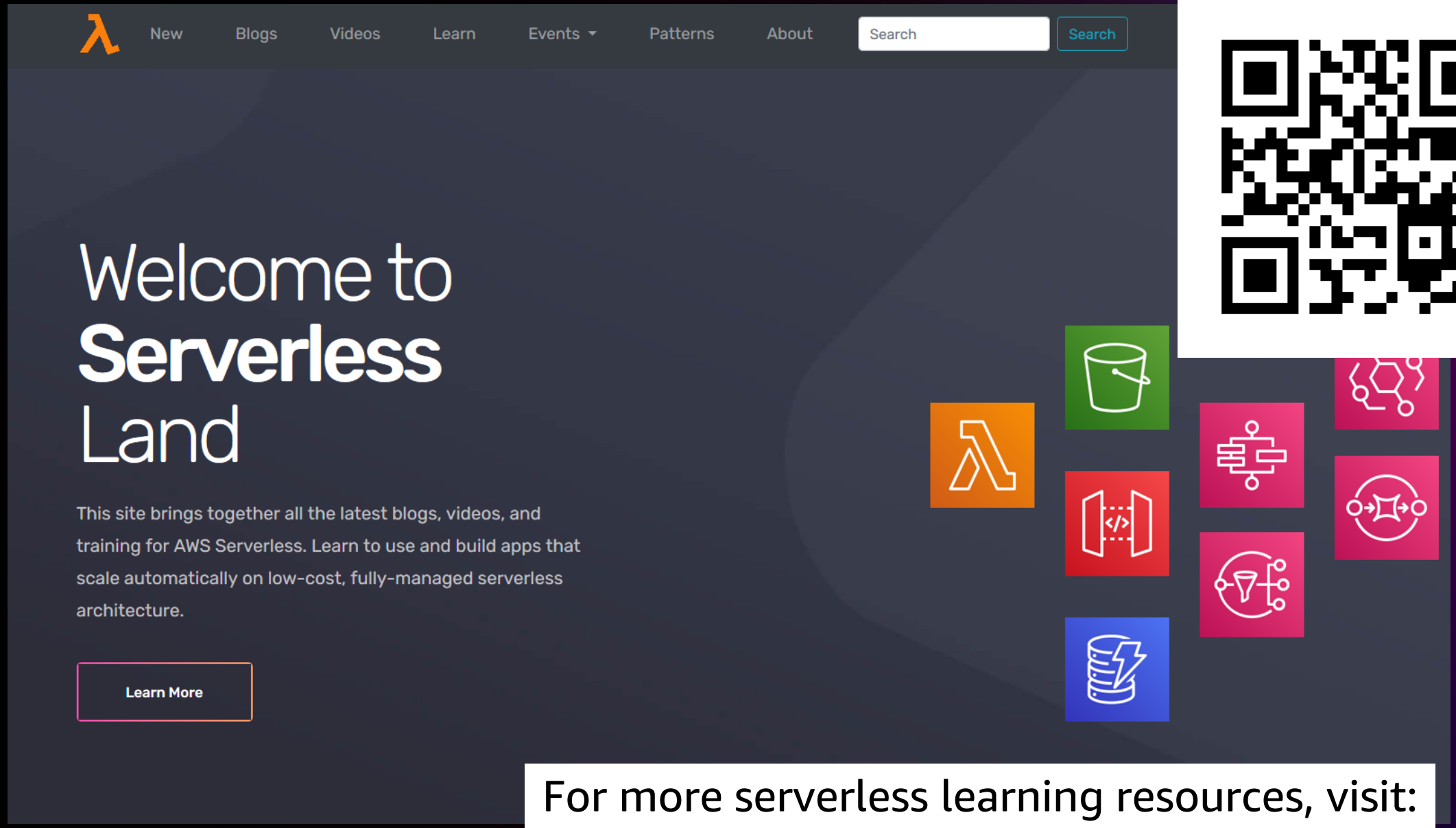
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serverlesspresso

An event-driven coffee ordering app
built with serverless architecture

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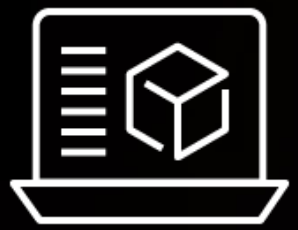


For more serverless learning resources, visit:
https://serverlessland.com

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What’s new in serverless resources



https://s12d.com/api-002

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Thank you!

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