Journey building a Twitter bot with Serverless on AWS

about

```
def about
```

- Rails Software Engineer 🛤️👨‍💻
- @ghosteathuman

```
end
```

journey

- Twitter bot breakdown
- Trying Ruby On Jets
- Trying Serverless Framework
- ~~Comparison & tutorial of frameworks~~

disclaimer

Your Mileage May Vary (YMMV)

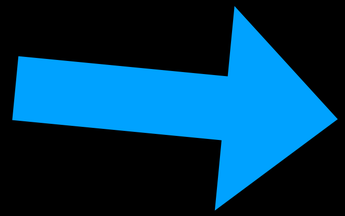
twitter bot breakdown

why serverless on aws

- Fits use case
  - Compute & Storage
- Free
  - AWS Lambda & DynamoDB has a always free tier
- Why not

serverless breakdown

AWS Lambda



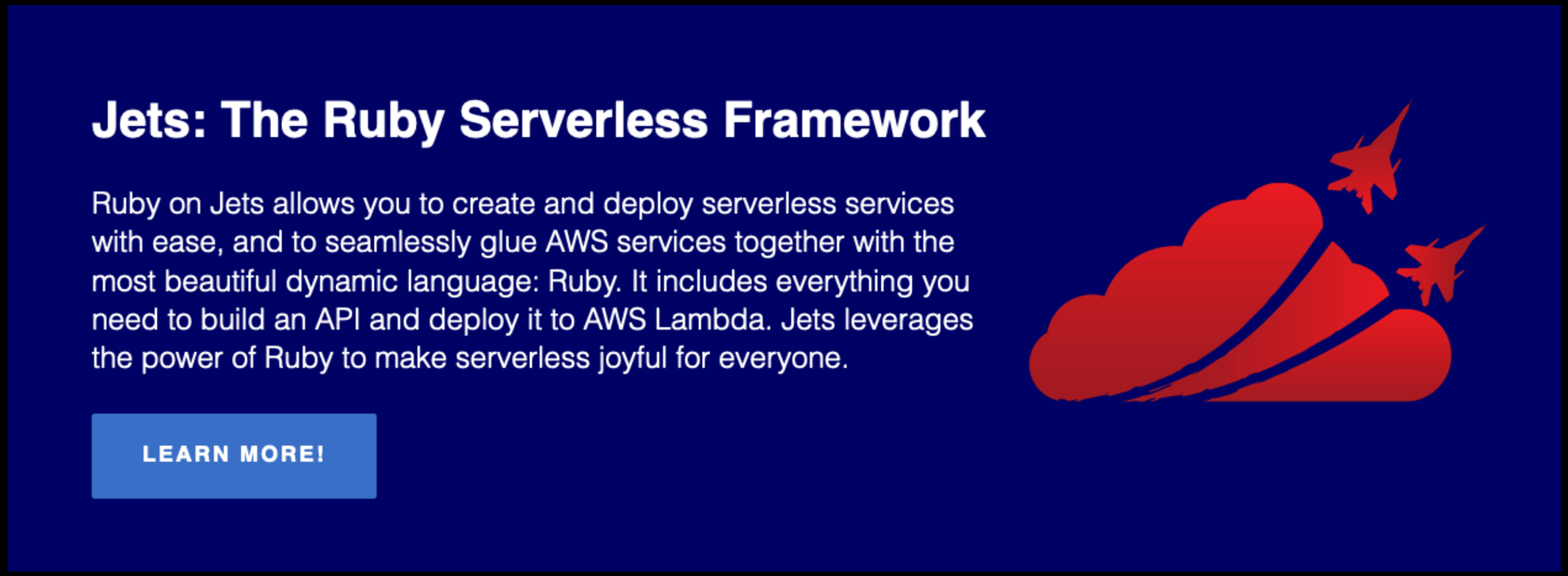
AWS Systems Manager
Parameter Store

AWS DynamoDB

lambda layers

- a .zip file archive that can contain additional code or data
- A layer can contain libraries, a custom runtime, data, or configuration files.

trying ruby on jets



https://rubyonjets.com/

ruby on jets

SSM Parameter Store Support

AWS Systems Manager Parameter Store is supported. Storing secrets as SSM Parameters and referencing them your `.env` files allows you to commit your `.env` into source control. When you reference a parameter name with it will prefix the conventional `/<app-name>/<jets-env>/`. If you reference the parameter name with a leading / then the conventional prefix is not added. For example:

```
RELATIVE_DATABASE_URL=SSM:database-url          # references /<app-name>/<jets-env>/database-url
ABSOLUTE_DATABASE_URL=SSM:/path/to/database-url # references /path/to/database-url
```

The SSM parameters are fetched and interpolated into your environment at build time so make sure to re-deploy your app after making changes to your SSM parameters to ensure they are picked up correctly.

Additionally, if the value is `SSM`. It will conventionally map to `/<app-name>/<jets-env>/KEY`.

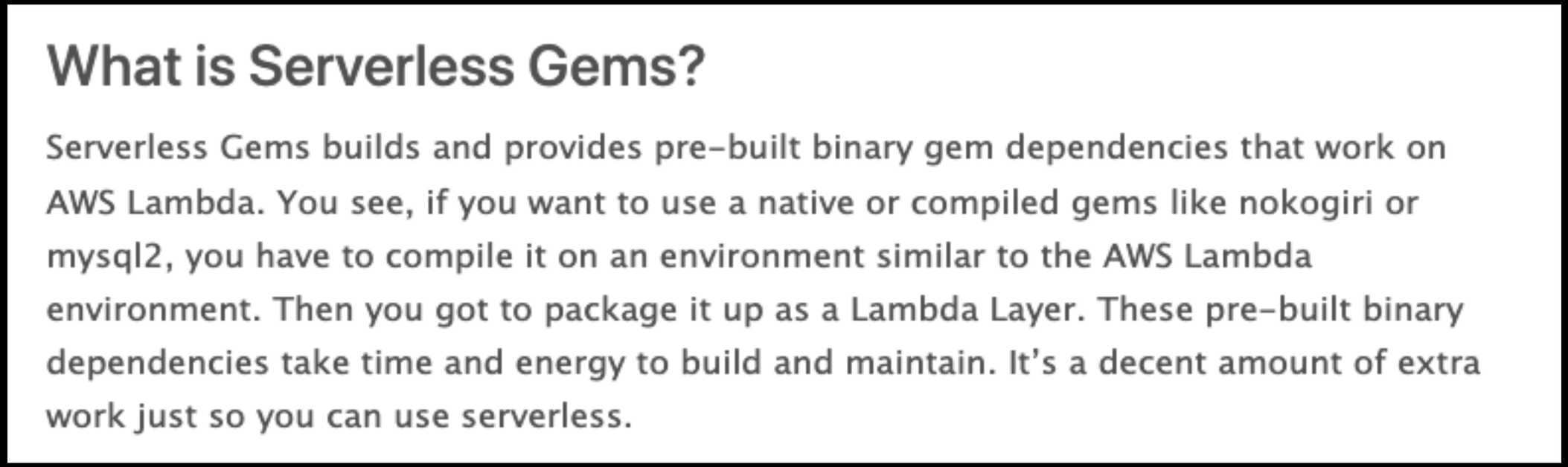
```
MY_SECRET=SSM # references /<app-name>/<jets-env>/MY_SECRET
MySecret=SSM  # references /<app-name>/<jets-env>/MySecret
```

ruby on jets

- Uses ‘dynomite’ gem by default for DynamoDB
- Kept getting ‘Aws::DynamoDB::Errors::ResourceNotFoundException: Requested resource not found’ error
- For testing purposes, switch to ‘Dynamoid’ gem and worked after additional configuration.

ruby on jets

- ‘ERROR: Limit Reached You have reached your daily anonymous download limit. You can increase the limit by registering: https://www.serverlessgems.com/rate-limits'
-



serverless framework

zero-friction serverless development

easily build apps that auto-scale on low cost, next-gen cloud infrastructure.

https://www.serverless.com/

serverless framework

Serverless Ruby Layer

A Serverless Plugin to auto deploy gems to AWS Layer using Gemfile

user navarasu

A Serverless Plugin which bundles ruby gems from Gemfile and deploys them to the lambda layer automatically while running `serverless deploy`.

It auto-configures the AWS lambda layer and RUBY_PATH to all the functions.

references

- Ruby on Jets: https://rubyonjets.com/
- Introducing Serverless Gems: https://blog.boltops.com/2021/01/07/introducing-serverless-gems
- Serverless framework: https://www.serverless.com/
- Serverless Ruby Layer: https://www.serverless.com/plugins/serverless-ruby-layer

thanks!