Serverless Framework Deploy Lambda from YAML

CONCEPTS

sls is a short alias for serverless. Every command reads serverless.yml in the current folder and defaults to stage dev.

serverless.yml functions + events
↓ package
.serverless/ zips + CloudFormation
↓ deploy
CloudFormation stack Lambda, API, IAM
↓ invoke / logs
Running service per stage and region

A stage (--stage) is a separate full copy of the stack, e.g. dev, staging, prod. Region comes from --region or provider.region.

ACCOUNT

serverless login
Sign in and pick the default org

serverless *<command>* **--help**
Show help for one command

DEPLOY

serverless deploy
Deploy the whole service

serverless deploy --stage *<stage>* **--region** *<region>*
Deploy to another stage or region

serverless deploy --verbose
Show stack events and outputs

serverless deploy --aws-profile *<name>*
Deploy with a named AWS profile

serverless deploy --package *<dir>*
Deploy a pre-built package

serverless deploy function -f *<fn>*
Upload one function's code only

serverless deploy function -f *<fn>* **--update-config**
Push only Lambda config changes

serverless deploy list
List stored deployments

PACKAGE

serverless package
Build artifacts without deploying

serverless package --package *<dir>*
Write the package to a folder

INVOKE

serverless invoke -f *<fn>*
Call the deployed function

serverless invoke -f *<fn>* **--log**
Also print the invocation log

serverless invoke -f *<fn>* **-d** '*<json>*'
Pass an inline event

serverless invoke -f *<fn>* **-p** *<file>*
Pass an event from a JSON file

serverless invoke -f *<fn>* **-t Event**
Fire asynchronously

LOCAL

serverless invoke local -f *<fn>*
Run a function on your machine

serverless invoke local -f *<fn>* **-p** *<file>*
Use an event file

serverless invoke local -f *<fn>* **-d** '*<json>*'
Use an inline event

serverless invoke local -f *<fn>* **-e** *<NAME>*=*<value>*
Set an environment variable

serverless invoke local -f *<fn>* **--docker**
Run in the declared runtime

serverless dev
Run deployed functions on local code

LOGS

serverless logs -f *<fn>*
Show the last 10 minutes of logs

serverless logs -f *<fn>* **-t**
Tail logs live

LOGS (cont.)

serverless logs -f *<fn>* **--startTime** *<time>*
Logs since 30m, 2h, 3d or a date

serverless logs -f *<fn>* **--filter** *<text>*
Only lines containing a pattern

serverless metrics
Service-wide metrics, last 24 hours

serverless metrics -f *<fn>* **--startTime** *<t>*
Metrics for one function

INSPECT

serverless info
Show endpoints and functions

serverless info --verbose
Include all stack outputs

serverless print
Show config with variables resolved

serverless print --path *<a.b>*
Print one sub-value

ROLLBACK AND REMOVE

serverless rollback -t *<timestamp>*
Return to a past deployment

serverless remove
Delete the service from AWS

serverless remove --stage *<stage>* **--region** *<region>*
Delete one stage

CONFIG

Minimal serverless.yml

```
service: my-api

provider:
  name: aws
  runtime: nodejs20.x
  region: eu-central-1

functions:
  hello:
    handler: handler.hello
    events:
      - httpApi: GET /hello
```