

Lambda

- **Lambda functions**
- **Intro to serverless computing**



Execution continuum



EC2, EKS, ECS, Fargate

- *Run any software you want for as long as you want*
- *Complete control over HW and SW*
- *Hardest to config*

Elastic Beanstalk

- *Upload .zip file*
- *Limited software choices*
- *Some control over HW and SW*

API Gateway + Lambda

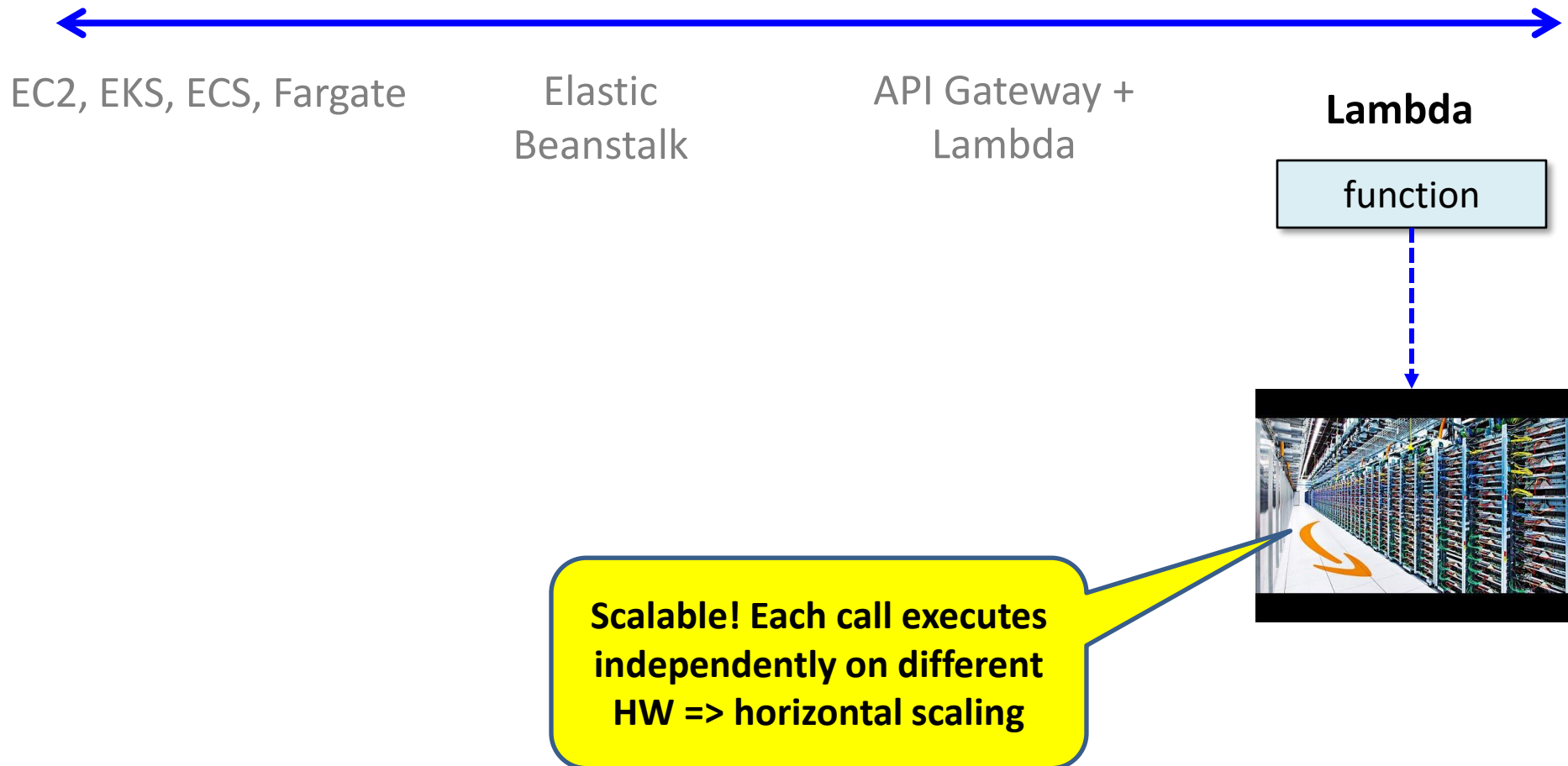
- *Function based*
- *Near-zero config*
- *Web service + functions (15-min limit)*

Lambda

- *Function based*
- *Near-zero config*
- *Short execution (< 15 mins)*

AWS lambda

- By far the simplest, least expensive way to compute



AWS lambda / Azure functions / Google functions

- **Standalone functions executed on demand**
 - *Can be written in JavaScript, Python, Java, C++, etc.*
 - *Execution time is limited (AWS => 15 minutes)*
- **Callable in a variety of ways:**
 - *Like a traditional function() using AWS library*
 - *Based on **events** that occur (e.g. uploading an item into S3)*
 - *Via **function URL** through AWS-managed web server*
 - *Via **API Gateway** offering a more customizable AWS-managed web server (e.g. test vs. production, more authentication options, ...)*