1 Application
3 Dialects
5+ Architectures

Platform independence with BridgePoint

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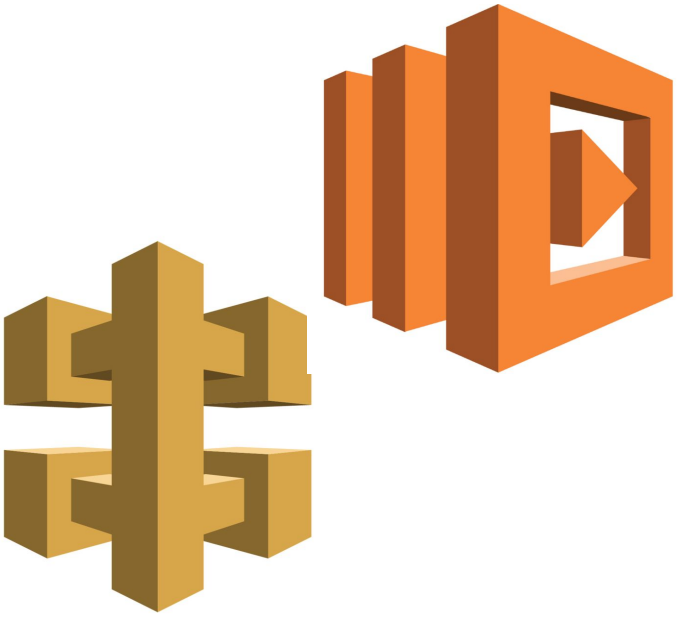
5+ Architectures

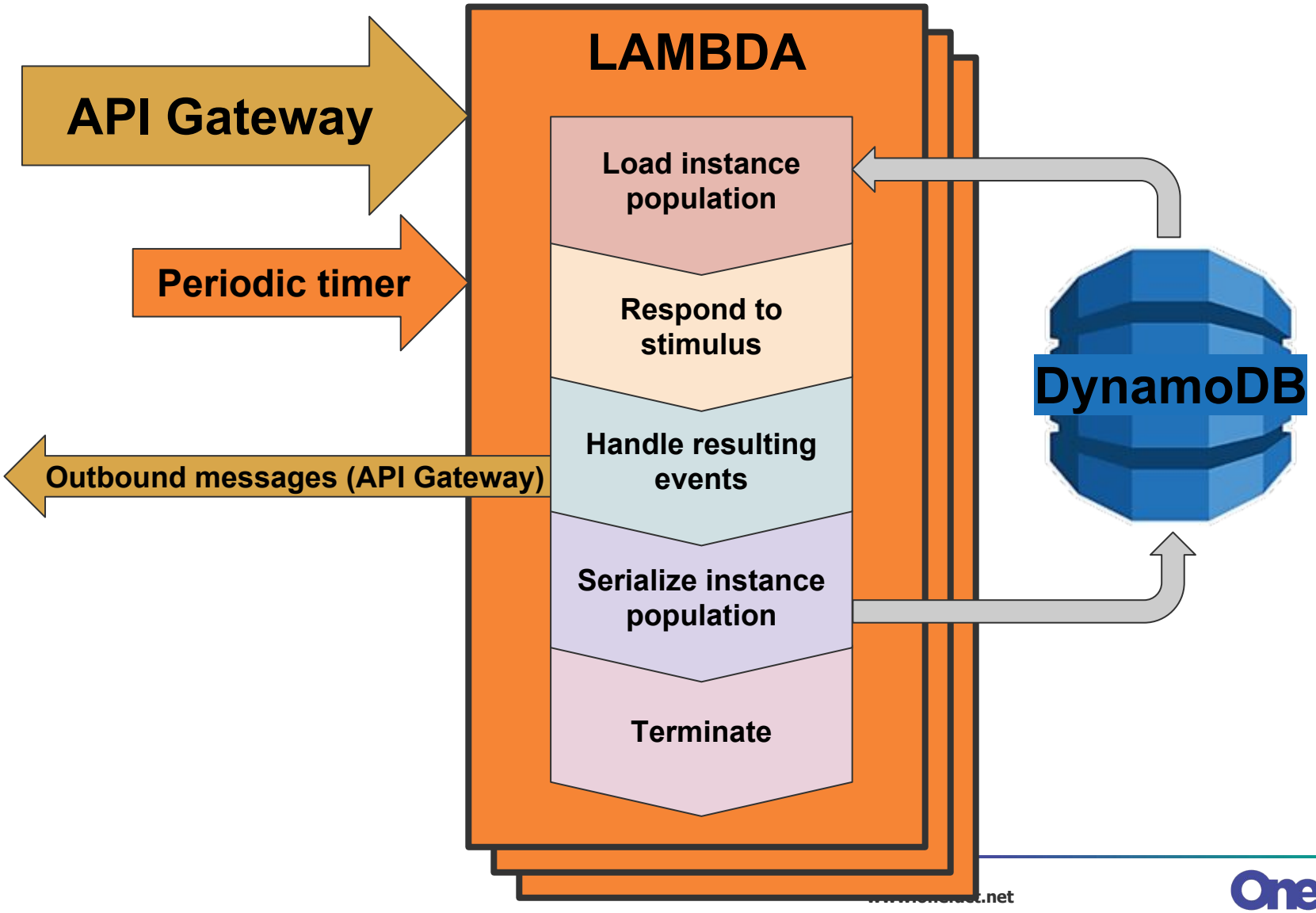
- ~~1. BridgePoint Verifier (interpreted simulation)~~
- ~~2. MC-3020 C binary on Windows~~
- ~~3. MC-3020 C binary on macOS~~
- ~~4. MC-3020 C binary on Linux~~
- ~~5. MASL C++ binary on Linux~~
- ~~6. MC-3020 C binary on Arduino~~
- ~~7. MASL C++ binary on Raspberry Pi (Raspbian)~~
- **8. Ciera for AWS**

5+ Architectures

- Ciera
  - Java architecture
  - Designed for general purpose applications
  - Flexible and readable
  - Full persistence
- Amazon Web Services
  - AWS Lambda
  - AWS API Gateway
  - AWS DynamoDB



AWS Architecture



AWS Architectural Profile

- **Fully persistent**: All state information of a running application must be persistent including running timers and delayed events
  - Support DynamoDB as a persistence option
- **Serializable signals:** Inter-domain messaging must be serializable as an HTTP API request
  - Support API Gateway as an endpoint for signal data
  - Support JSON as serialization format
- **Execution of a single transaction:** The application must support executing discrete transactions
  - Load the current state of the instance population before (or during) the processing of the transaction
  - Update the instance population after finishing the transaction
- **Target language supported by AWS Lambda**

Demo

Questions?

onefact.net