Japanese Startup Use-Cases and Tech Deep Dive

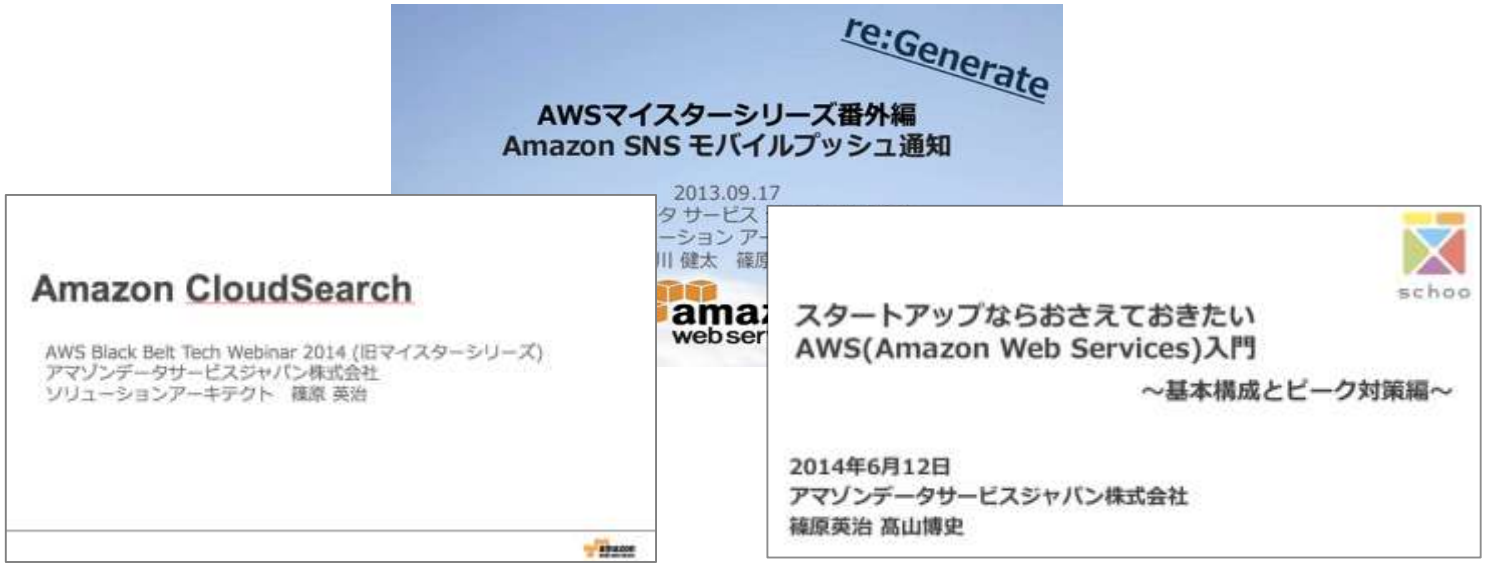
Amazon Data Services Japan
Eiji Shinohara

March 29, 2015

amazon web services

Who am I?

- Name :
  - Eiji Shinohara / 篠原 英治 / @shinodogg
- Role :
  - AWS Solutions Architect for Startups
  - Amazon CloudSearch Subject Matter Expert



Talking to Startup CTOs/Engineers on daily basis

STARTUP CAFE

スタートアップならおさえておきたい
AWS入門@STARTUP CAFE
～事例紹介～

アマゾンデータサービスジャパン株式会社
篠原英治

schoo WEB-campus

スタートアップならおさえておきたいAWS(A
入門 2限目：基本構成とビーク対策編

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～関西の最先端ITベンチャーに学ぶAWS活用法～

nulab amazon web services

ChatWork Warrantee

関西スタートアップAWS勉強会　～事例紹介～

2014年7月7日
アマゾンデータサービスジャパン株式会社
篠原英治

NE-01 Kyusyu Startup Night!

概要：
かつてないほどの勢いでスタートアップ（≒ベンチャー企業）のサービスが生まれ急成長しています。福岡市の創業特区の追い風もあり、九州発スタートアップにも大きな期待が集まります。九州発、世界で活躍するスタートアップのセッションや、注目スタートアップによるプレゼンピッチ『Kyusyu Startup Showcase』など、九州スタートアップの今を知ることができます。

CTONight Series in 2014

- **AWS Startup CTO Night with Amazon CTO**
  - **We had Amazon CTO Werner Vogels**
- **TechCrunch Tokyo CTO Night powered by AWS**
  - **Startups pitch contest for “CTO of the year”**
- **IVS CTO Night & Day powered by AWS**
  - **3 days Over 100 CTOs gathering**
  - **w/ Infinity Ventures Summit**

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ChatWork

chatwork

Gunosy, inc.

or what AWS fanboys claim from Japan.

Building Elastic Infrastructure with AWS

Keita Kitamura @ Sumally Inc.

Wantedly on AWS

2014-07-14
Startup CTO Night with Amazon CTO
Yoshi Kawasaki

CTO Night @AWS

Fumikazu Kiyota Vuzz Inc. 2014/07/15 @AWS Meguro

CTO Night with Amazon CTO

2014-07-14
fujikura@sansan.com

KAIZEN PLATFORM

Toshi / 石橋 利真
Co-founder & CTO

AWS Use Case - Cacoo

Startup CTO Night With Amazon CTO

SmartNews on the AWS

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at Startup CTO Night with Amazon CTO #ctonight

AWS Startup CTO Night with Amazon CTO

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TechCrunch Tokyo CTO Night powered by AWS

TECHCRUNCH TOKYO 2014

Tokyo | November 18 - 19, 2014

概要 タイムテーブル 関連記事 チケット ハッカソン ブース出展 スタートアップバトル スポンサー CTO NIGHT MORE »

今年のTechCrunch Tokyo CTO Nightでは「CTO・オブ・ザ・イヤー」を選ぶぞ！ 参加CTO募集開始

KEN NISHIMURA

2014年10月16日

昨年実施して好評だった日本でもっとも「
の高いCTOのためのイベント「TechCrunc
CTO Night powered by AWS」を、今年も

Contest for JP Startup CTO of the year!

CTO NIGHT

CTO・オブ・ザ・イヤーを決めるCTOのための集い

「CTO密度」の高いCTOのためのイベント「TechCrunch Tokyo CTO Night powered by AWS」を、TechCrunch Tokyo 2014のイベント内で開催します。2013年の前回は100人近いCTOが集まっていただいてパネルディスカッションを行いました。今年は趣向を変えて「CTO・オブ・ザ・イヤー」を選出するピッチ・コンテスト形式として、CTOの日々の仕事の成果をシェアし、たたえ合う場にできればと考えています。

TechCrunch Tokyo CTO Night powered by AWS

Pitch Presenters (Startup CTOs)

- Beatrobo, Inc.（PlugAir） 竹井英行CTO
- freee株式会社（freee） 横路隆CTO
- Tokyo Otaku Mode Inc.（Tokyo Otaku Mode） 関根雅史CTO
- ヴァズ株式会社（SnapDish） 清田史和CTO
- 株式会社オモロキ（ボケて） 和田裕介CTO
- 株式会社Moff（Moff Band） 米坂元宏CTO
- 株式会社ユーザベース（SPEEDA／NewsPicks） 竹内秀行CTO
- 株式会社エウレカ（pairs） 石橋準也CTO
- 株式会社DoBoken（ZenClerk) 磯部有司CTO

Judges (Popular Company CTOs)

- グリー 藤本真樹CTO — GREE
- クックパッド 舘野祐一CTO — Cookpad
- ビズリーチ 竹内真CTO — BizReach
- はてな 田中慎司CTO — Hatena
- サイバーエージェント 佐藤真人CTO — CyberAgent
- アマゾンデータサービスジャパン 技術本部長 玉川憲氏 — Amazon

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TechCrunch Tokyo CTO Night powered by AWS

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IVS CTO Night & Day powered by AWS

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IVS CTO Night & Day powered by AWS

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IVS CTO Night & Day powered by AWS

【Survey Result】
100% participant CTOs said…
“ WANT TO JOIN THIS EVENT AGAIN!!”

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AWS is empowering Startups!

Let’s Meetup at CTO Night (´▽`)ﾉ

AWS Pop-up Loft in San Francisco

AWS Pop-up Loft – Returning in the Fall!

by Jeff Barr | on 22 AUG 2014 | Permalink

Earlier this year we opened up the AWS Pop-up Loft for a pilot run of almost four weeks in San Francisco. During that time, many AWS developers dropped in to network, listen, learn, work, and socialize. Some developers came and enjoyed the structured, scheduled events. Others came in with their laptops, found a quiet corner, and spent some time working on their code.

During my three day stint at The Loft, I met a number of interesting entrepreneurs and spent time learning about their plans to change the world. For example, I spoke with Cosmo Mielke of infino.me to learn more about his citizen science experiment. He's working to use Big Data to understand the interaction

AWS Pop-up Loft in San Francisco

I’m going to have a session about “Japanese Startups” at SF Pop-up Loft (´▽`)ﾉ

We never disclose AWS customers’ info without permission.
We got agreements for all use-cases in this slide.

Agenda

- **Surefire Architecture**
  - ELB + EC2 + RDS on MultiAZ
  - Super Fast Distribution with S3 + CloudFront
- **Beat “Bursty Traffic”**
  - How to beat burst
  - Cost range
- **Startup Pragmatic Use-Cases**
- **Amazon CloudSearch Startup Use-Cases**

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Agenda

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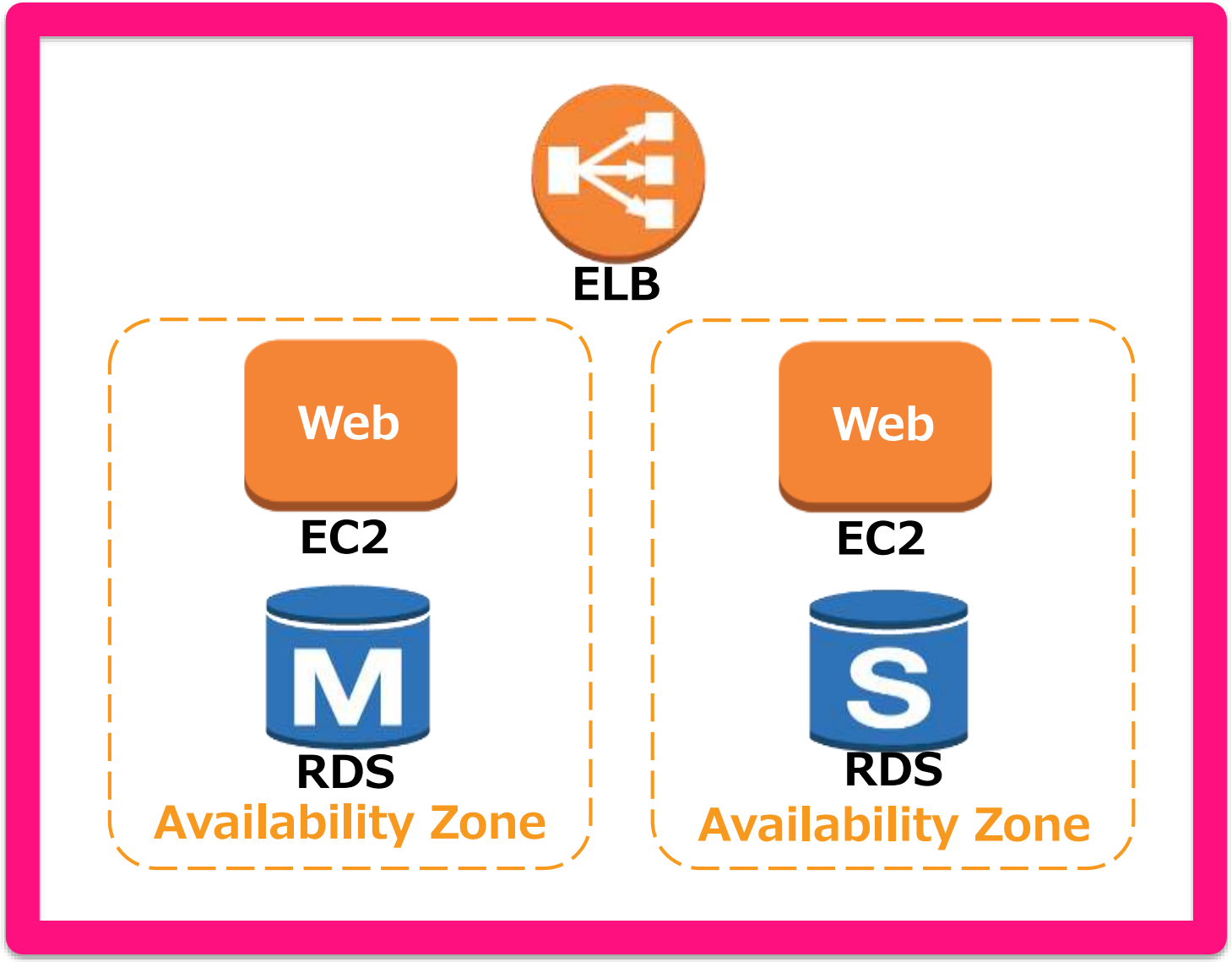
Surefire Architecture
ELB + EC2 + RDS on Multi AZ



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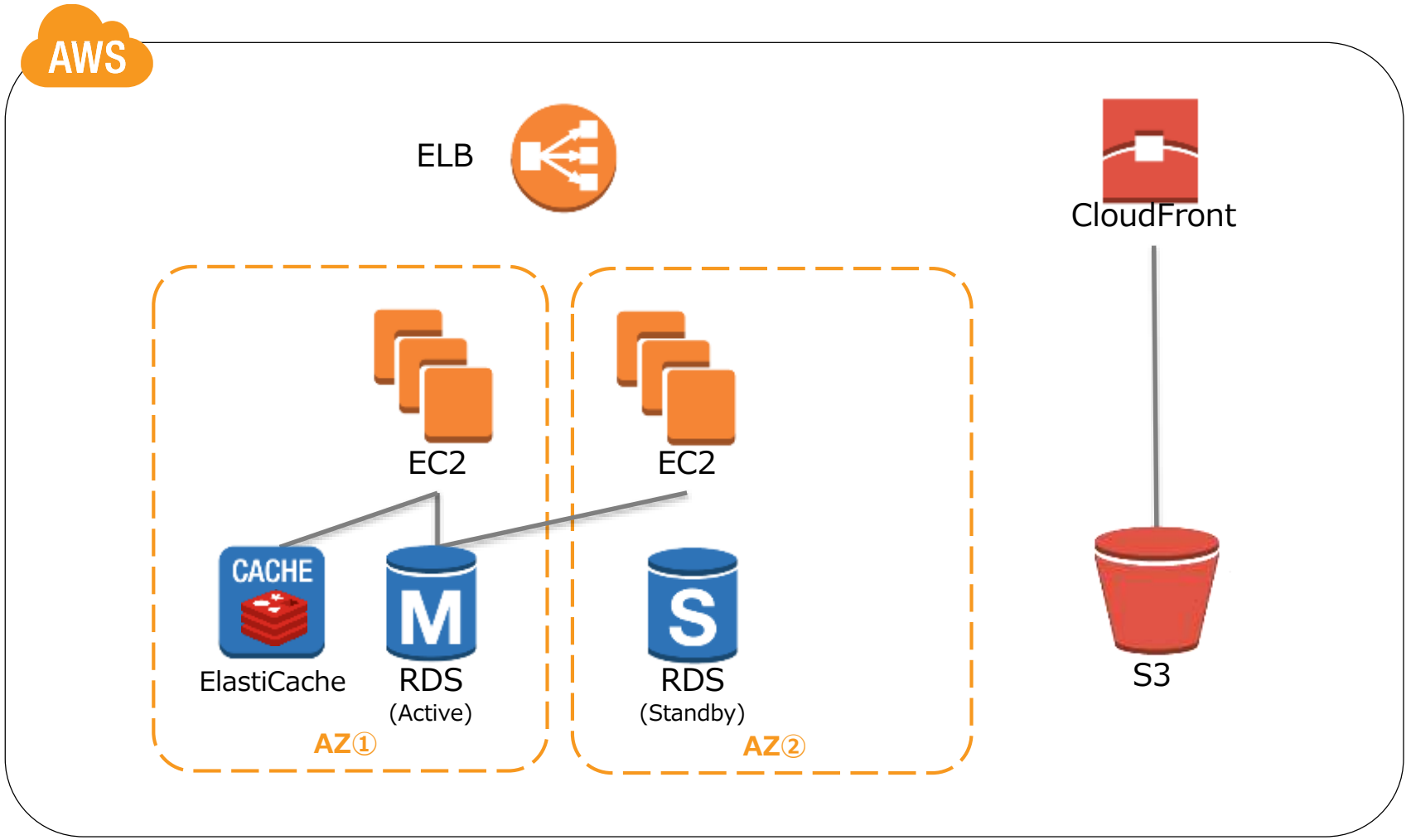
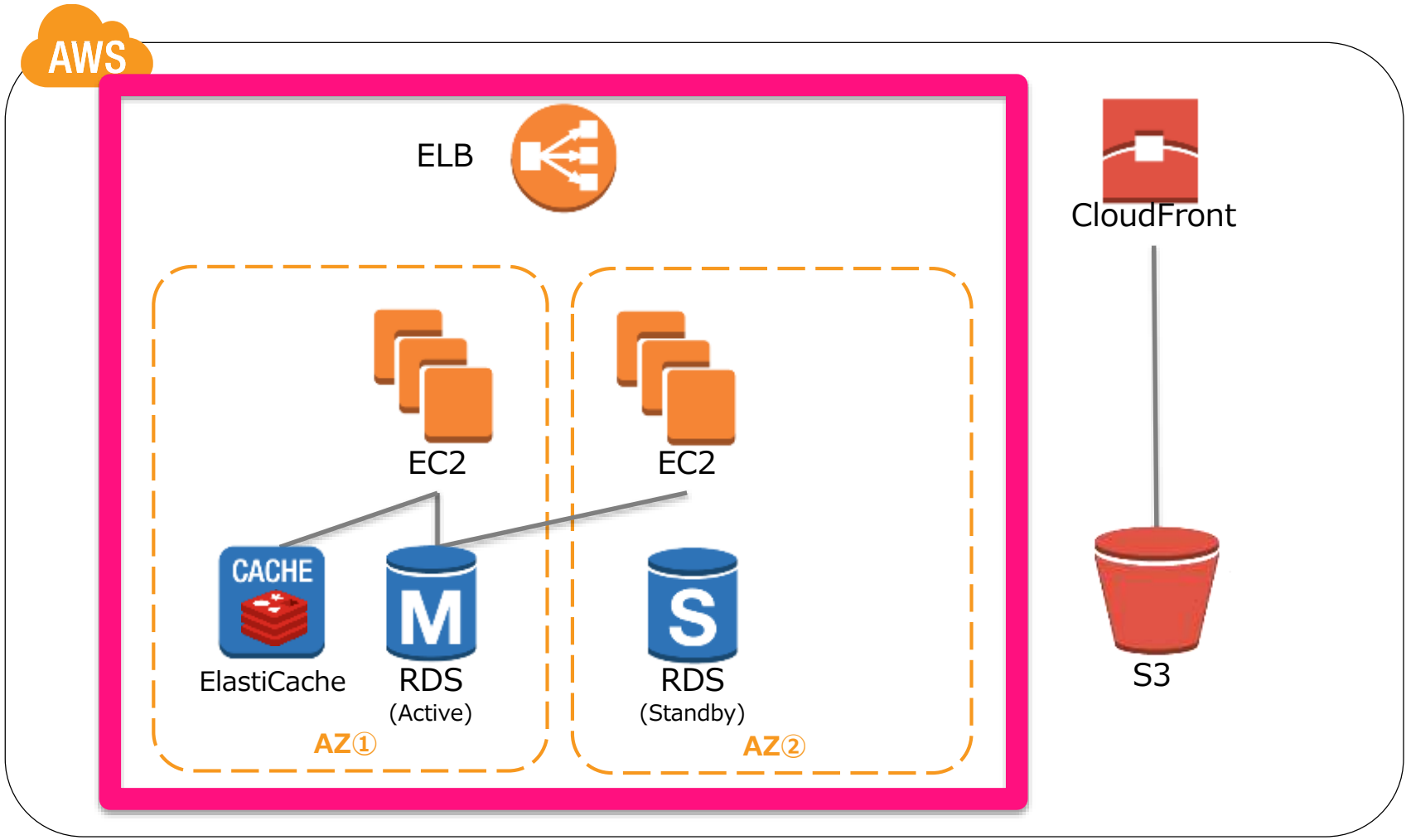
BASE https://thebase.in/

Easy to create online shopping site
Variety of templates and Payment System
And it's all free

BASE https://thebase.in/



BASE https://thebase.in/



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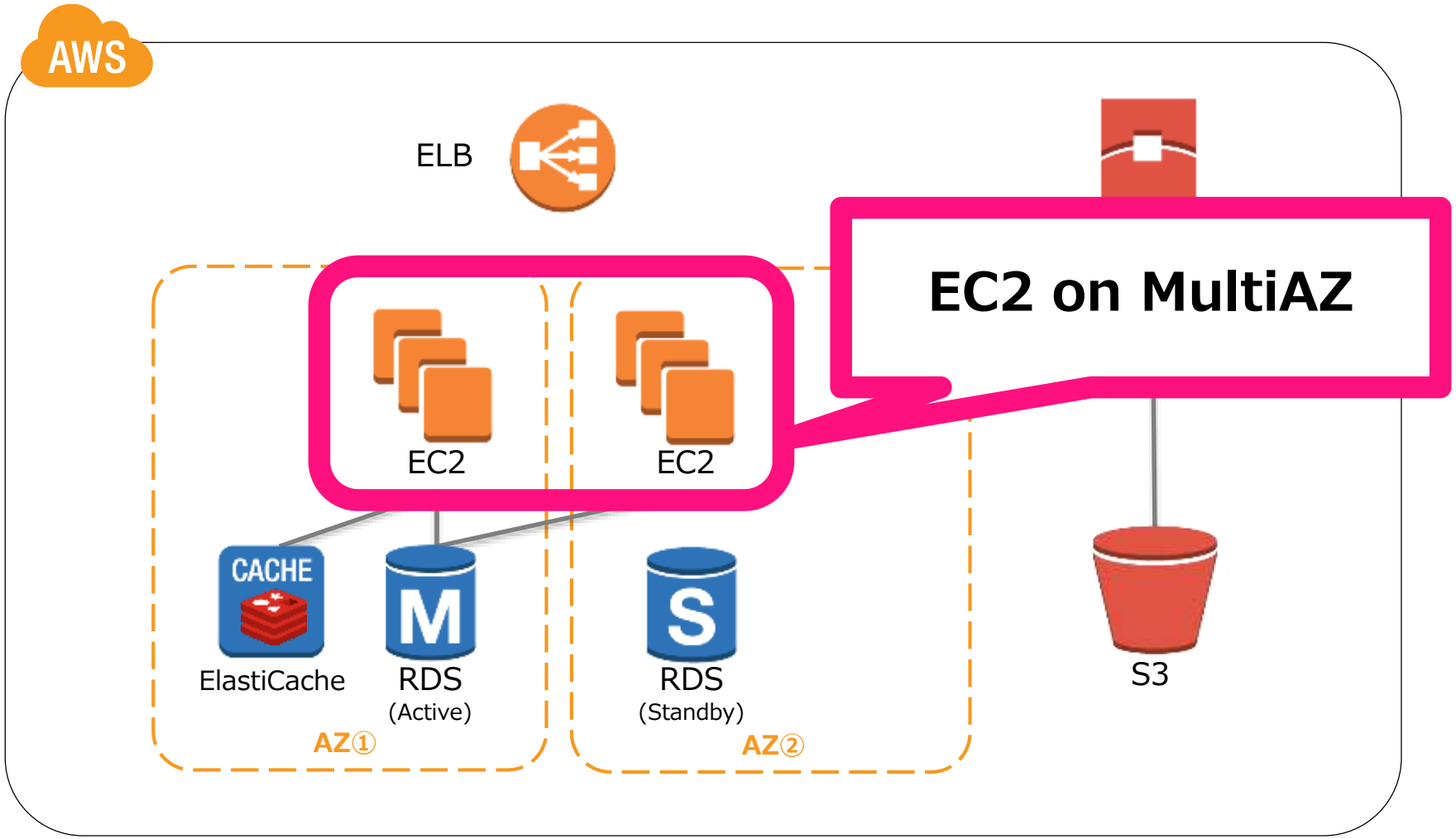
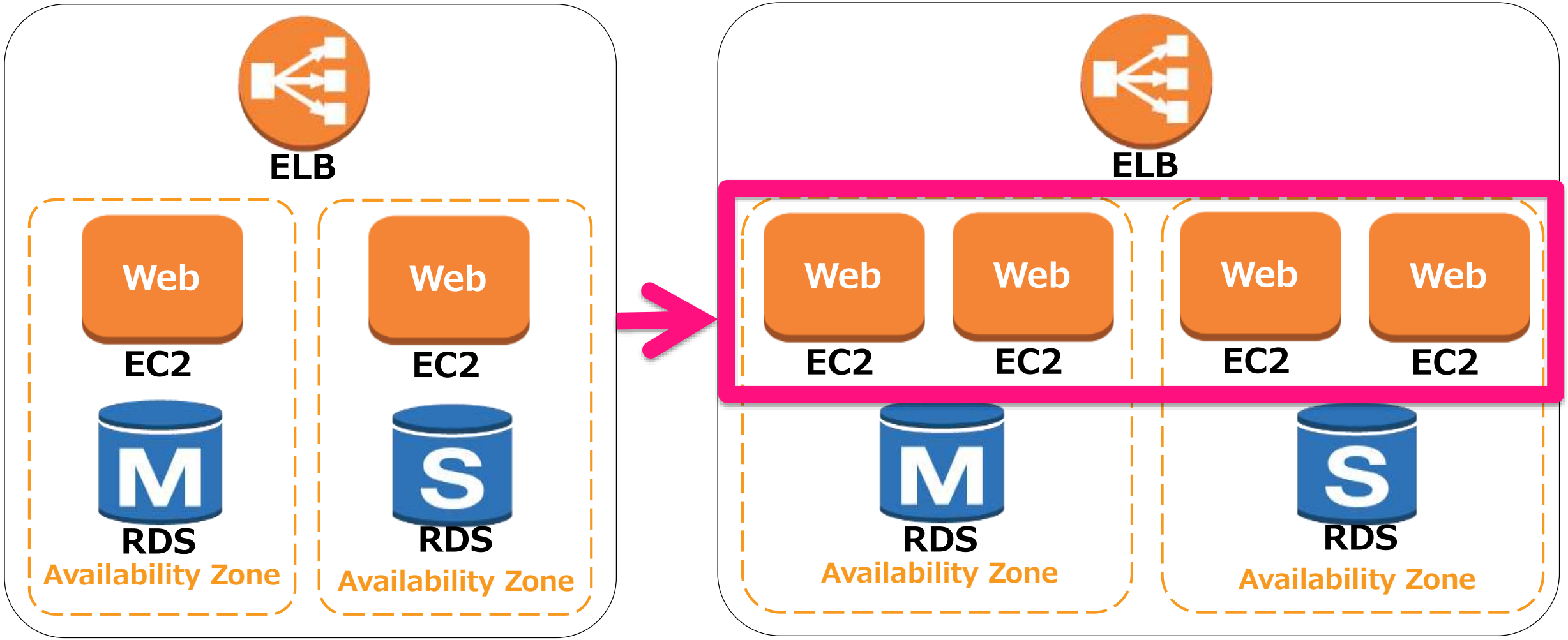


Just increase EC2 instances if needed ☺



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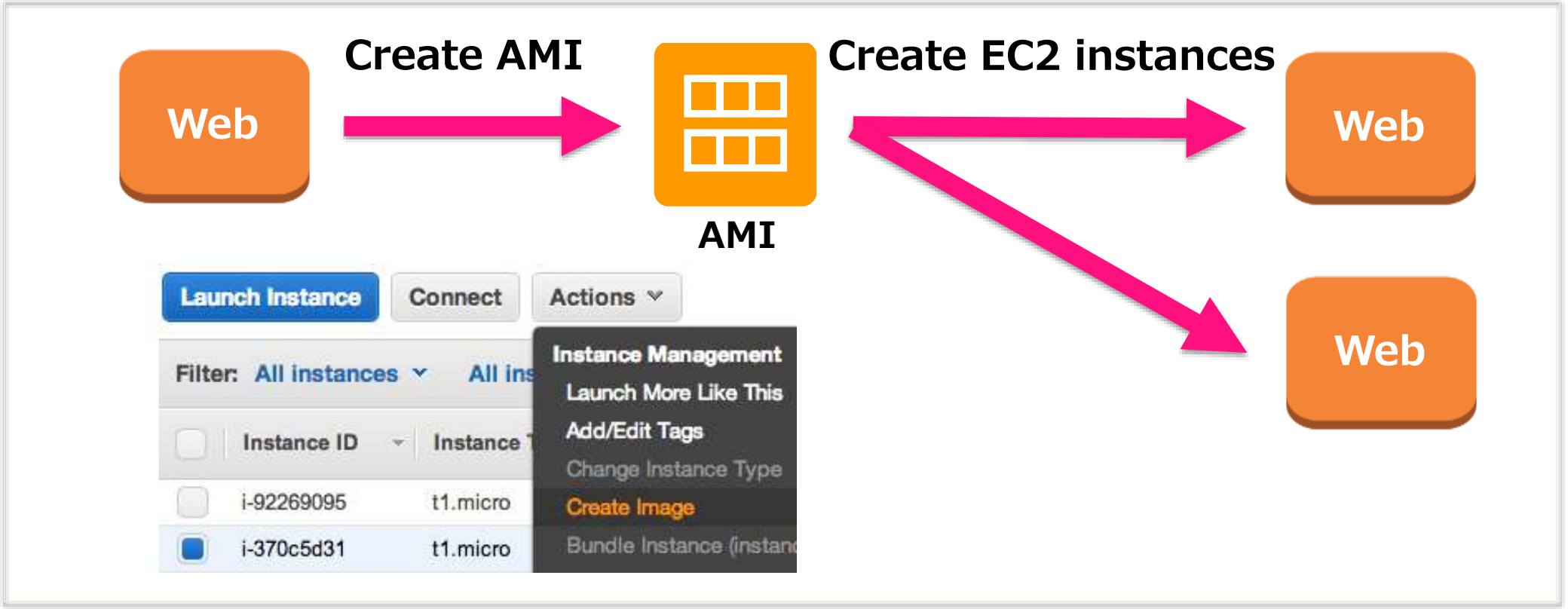
Create EC2 instances from AMI

- **AMI(Amazon Machine Image)**
  - **Easy to Create Image**
  - **Able to Create EC2 instances from the Image**



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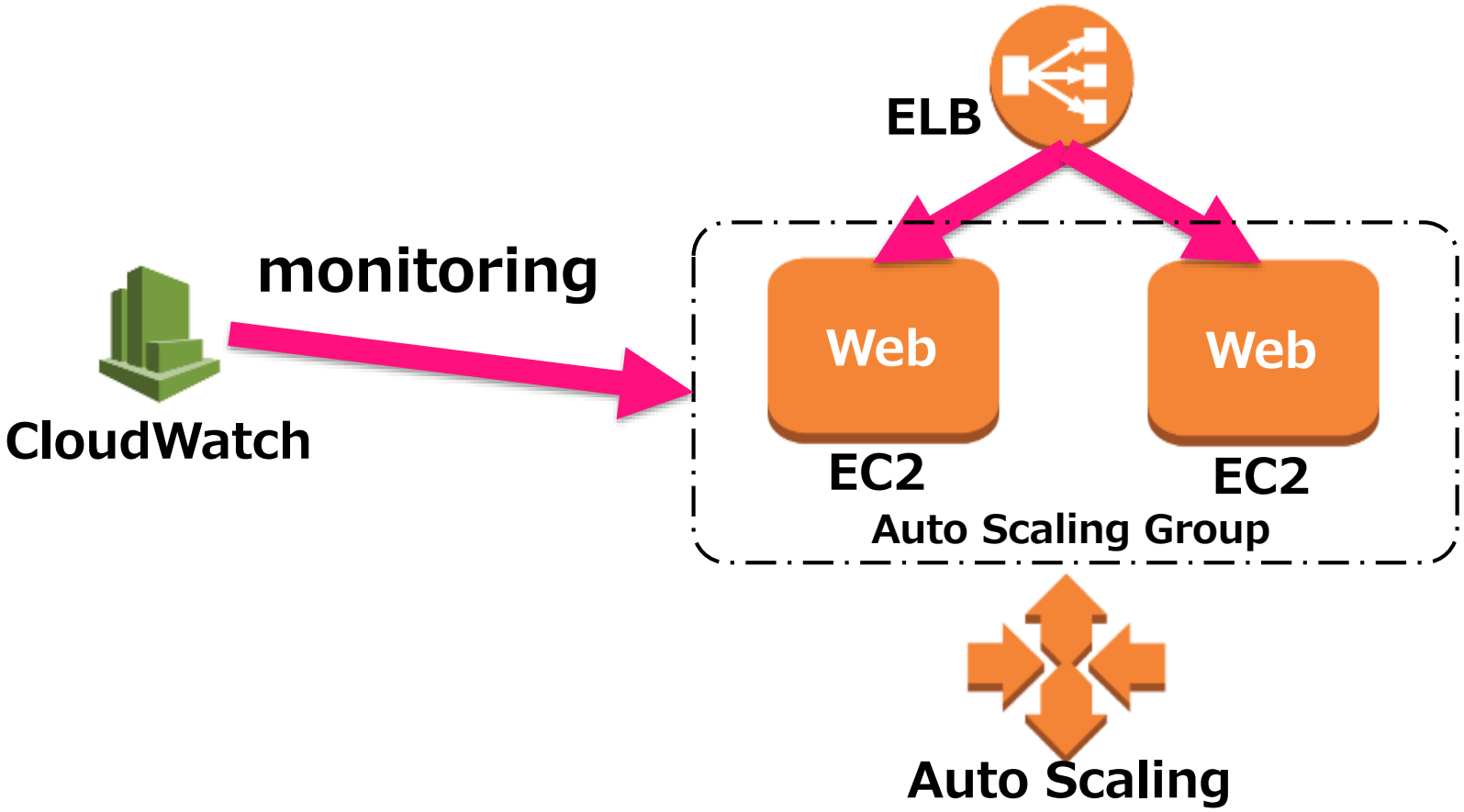
Dynamic Scaling with Auto Scaling

- **Auto Scaling**
  - EC2 scale out/in to adjust load and traffic
  - e.g. if 70% CPU usage for 5min, then add 2 instances



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Dynamic Scaling with Auto Scaling

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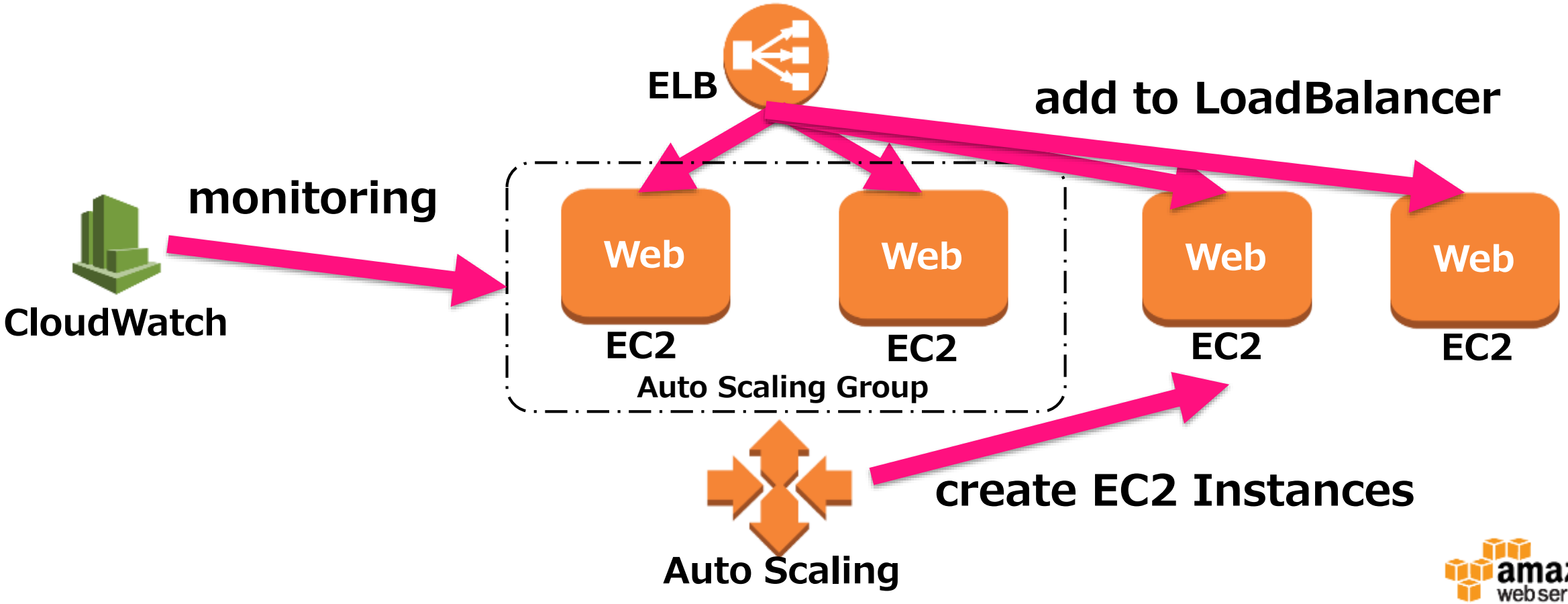

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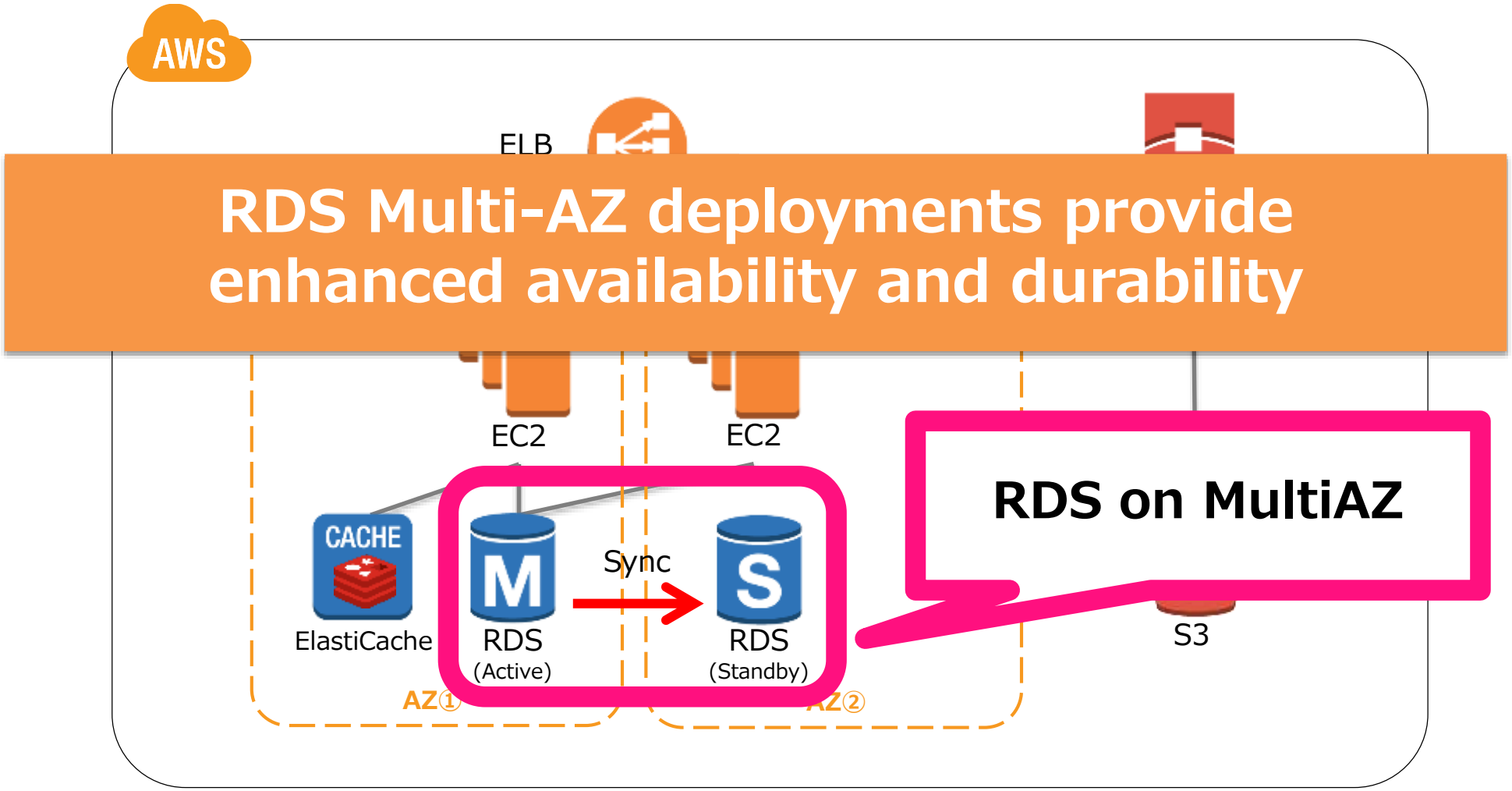
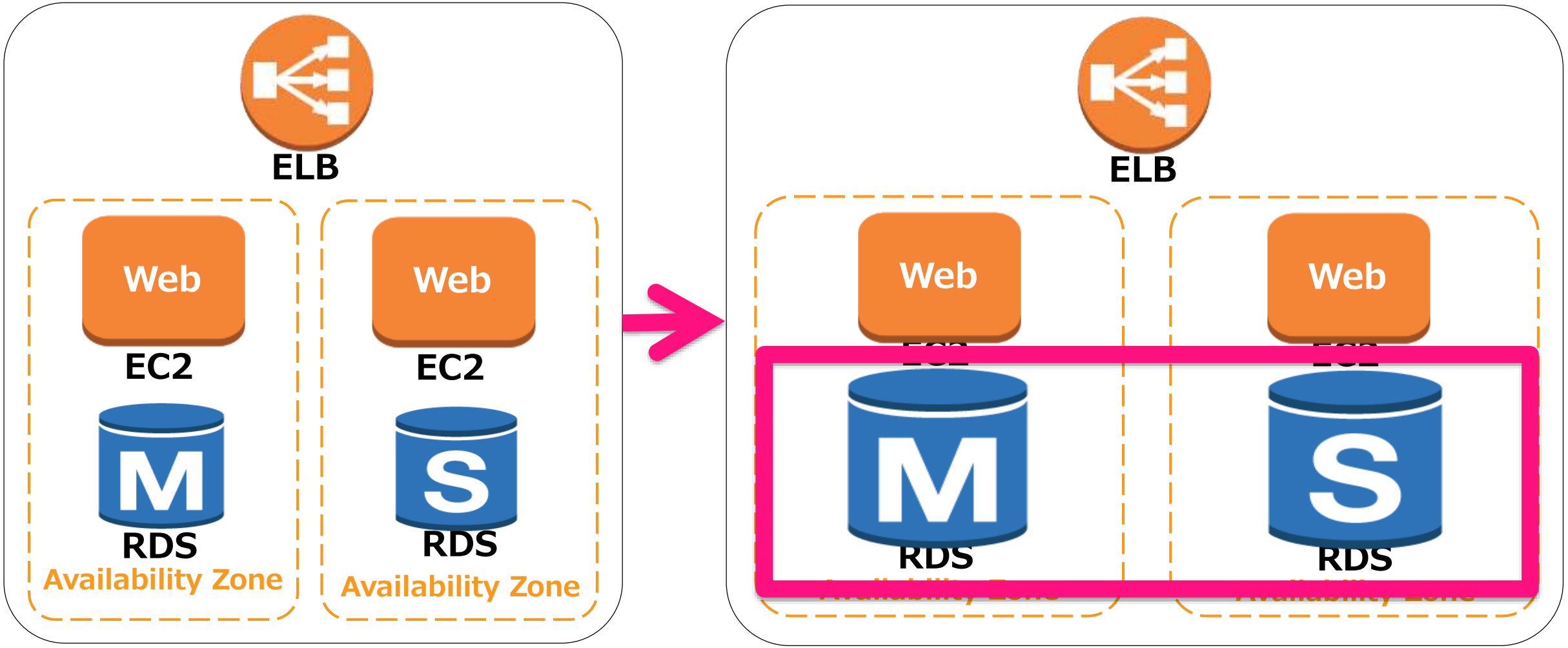
BASE https://thebase.in/



Scale-Up if needed



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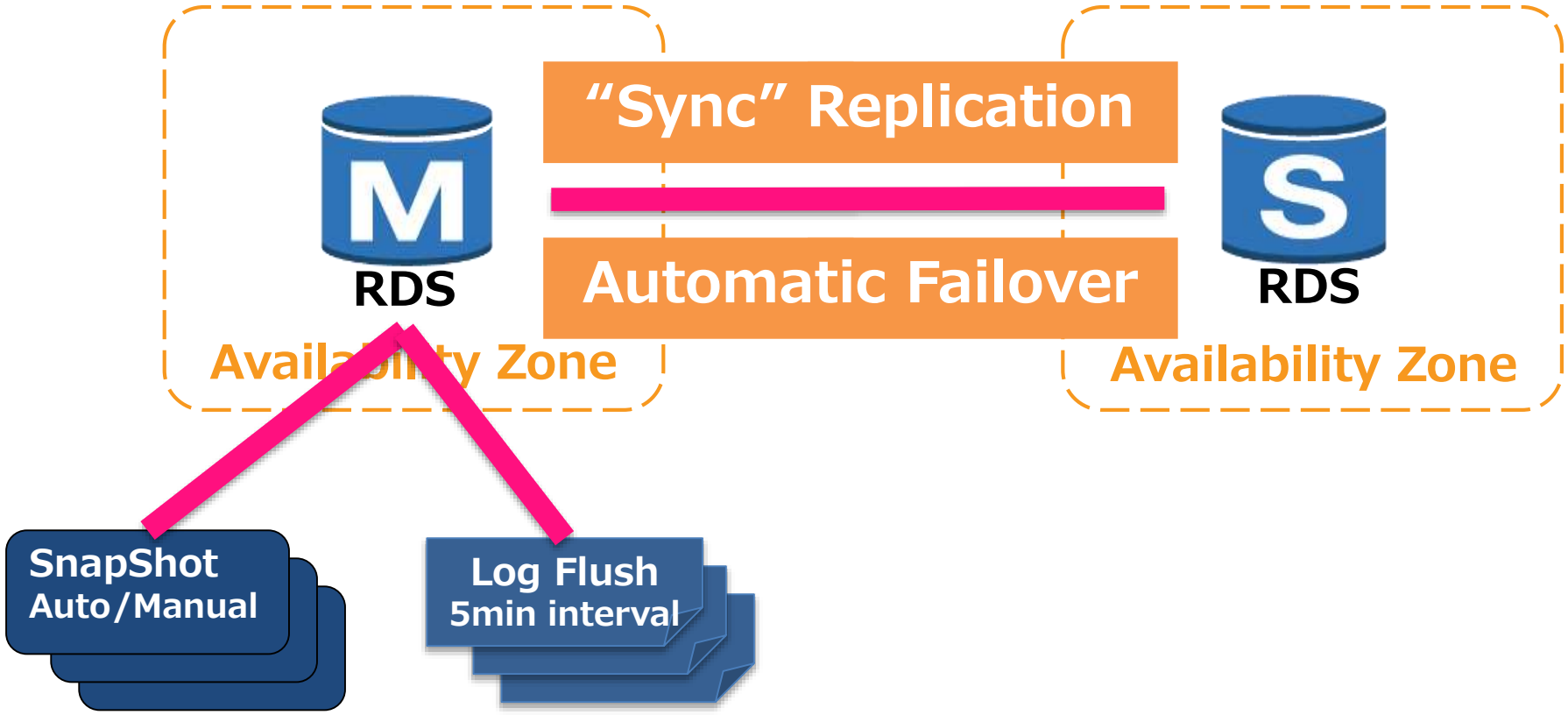
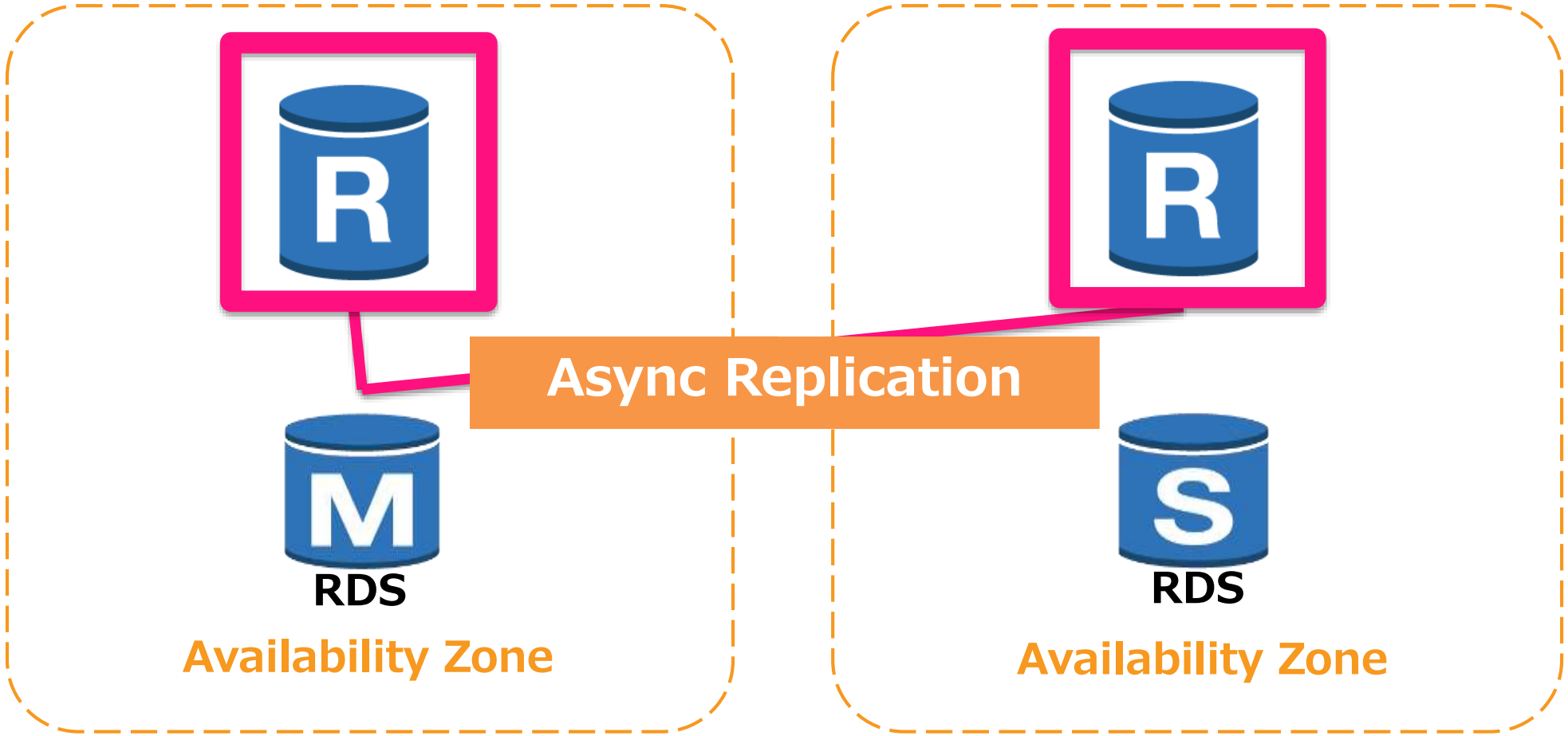
Multi-AZ makes you feel you relieved ☺



Replication across data centers
Restore from Snapshots and Logs

Easy to create Read Replicas



To handle massive query requests

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Static Contents Distribution

Make it Super fast with S3＋CloudFront

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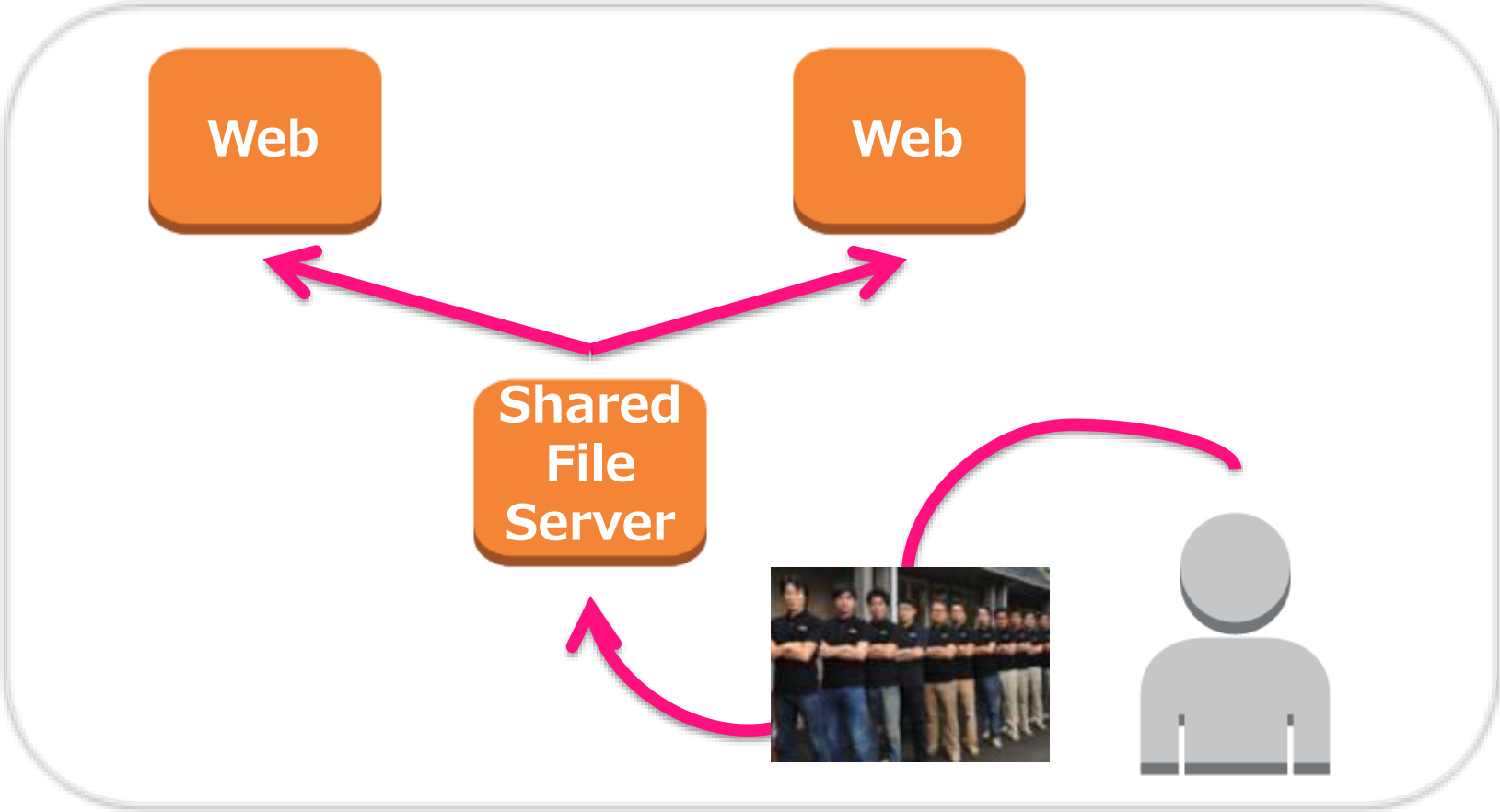
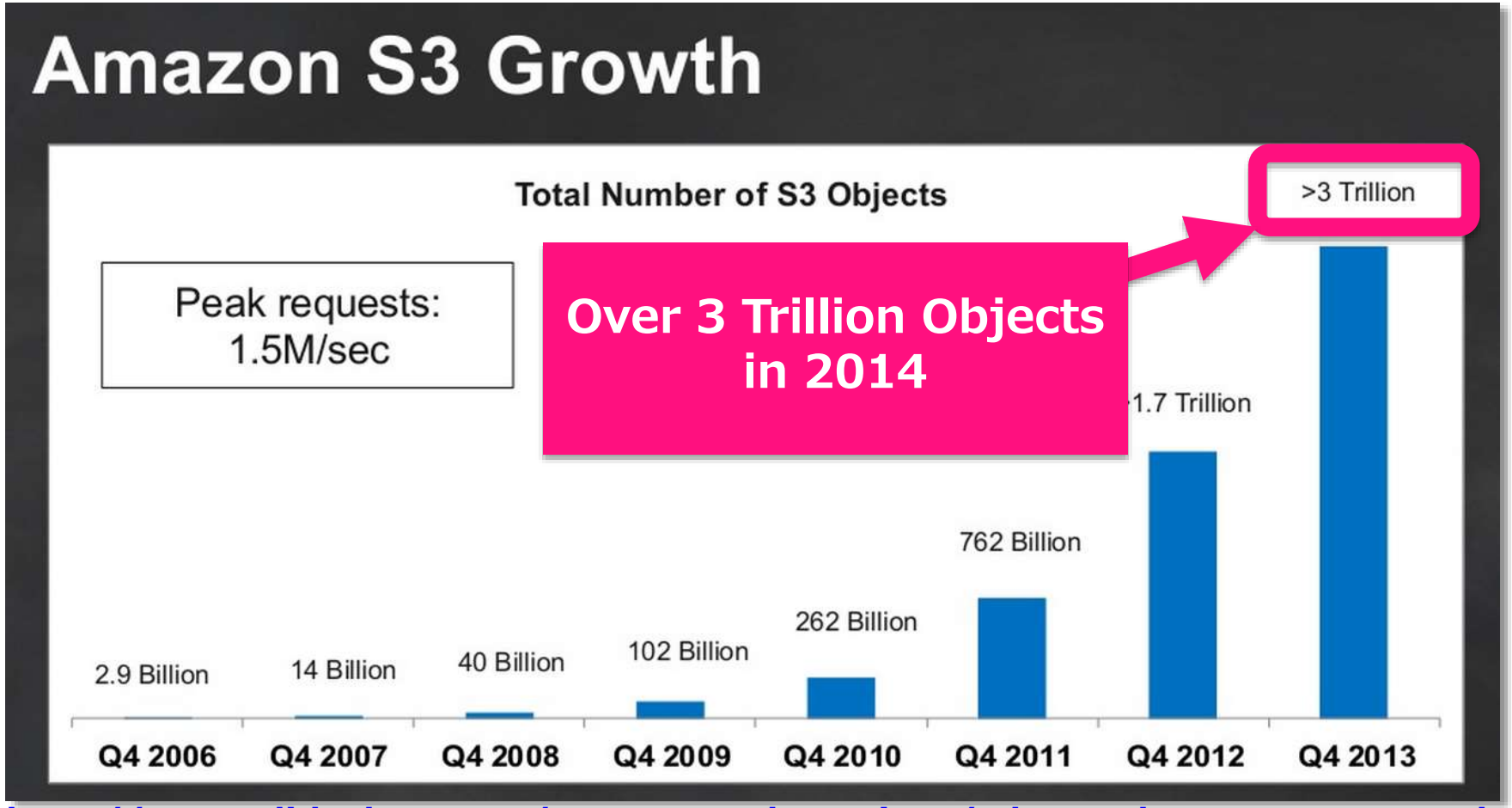
Often happen to see like this

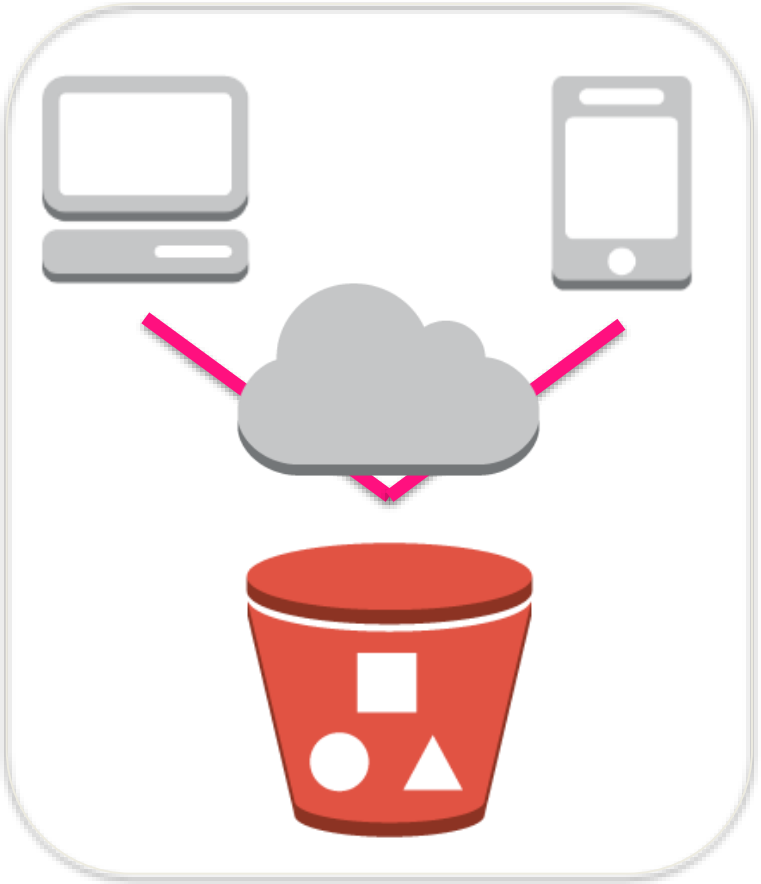
- Copy from File server to Web servers with rsync/scp
  - Capacity Limit ? Backup ?
  - High Latency from overseas..



Amazon S3

- **Static Contents with S3**
  - **Image, Movie, HTML, JavaScript , CSS ,,**





http://www.slideshare.net/AmazonWebServices/why-scale-matters-v4-rodos

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Amazon S3

Static Contents Distribution

hello.html

```
<!DOCTYPE html>
<html lang="ja">
<head>
  <meta charset="utf-8">
  <title>S3でHTML</title>
</head>
  <body>
    <p><b>Hello AWS World!!</b></p>
    <img src="sa.png">
  </body>
</html>
```

Upload HTML/Image to S3

Make Public

Amazon S3

Static Contents Distribution

hello.html

```
<!DOCTYPE html>
<html lang="ja">
<head>
  <meta charset="utf-8">
  <title>S3でHTML</title>
</head>
```

All Buckets / aws-schoo

	Name	Sto
☑	hello.html	Stan
☐	sa.png	Stan

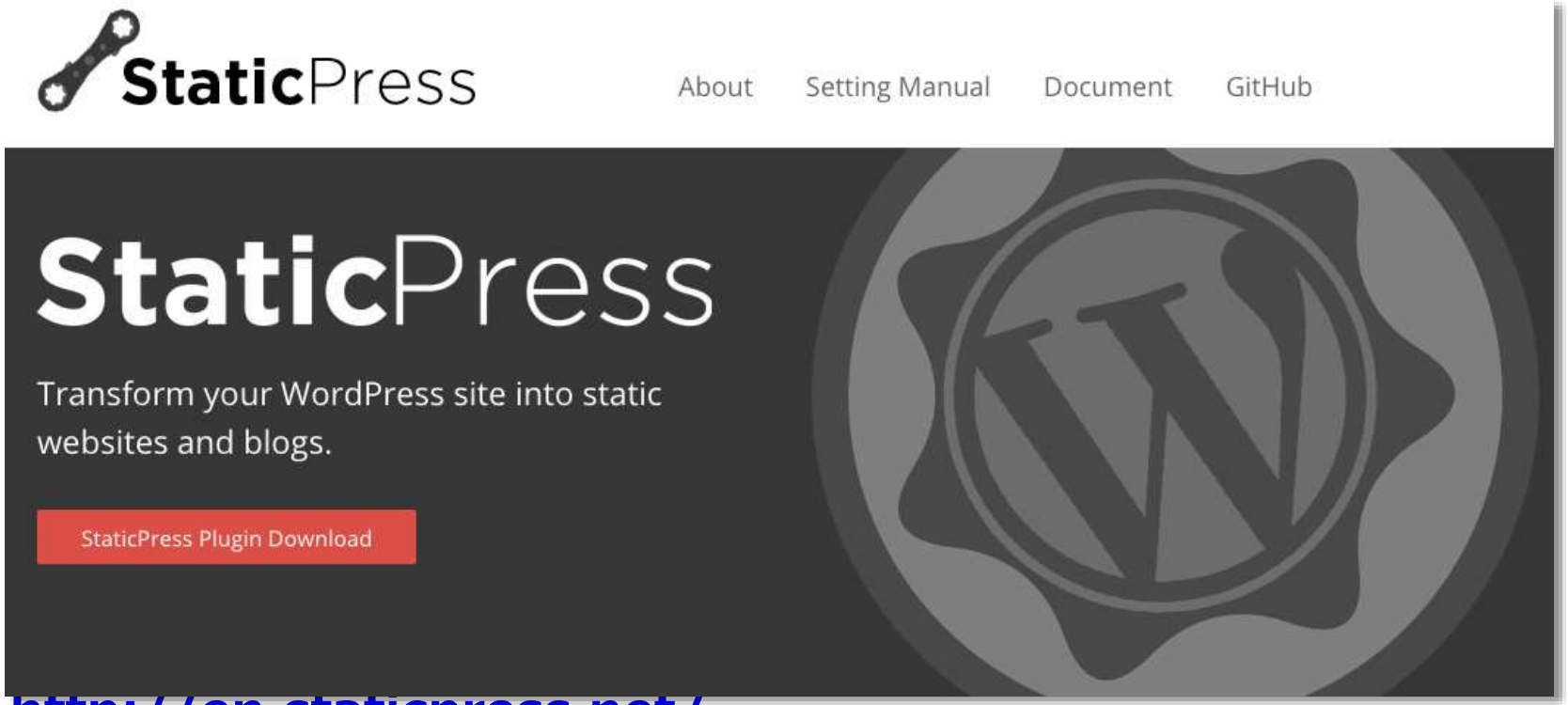
Object: hello.html

Bucket: aws-schoo
Name: hello.html
Link: https://s3-ap-nort
Size:

Popular reasonable solution for Teaser site and Landing page

Amazon S3 – e.g.) WordPress Site

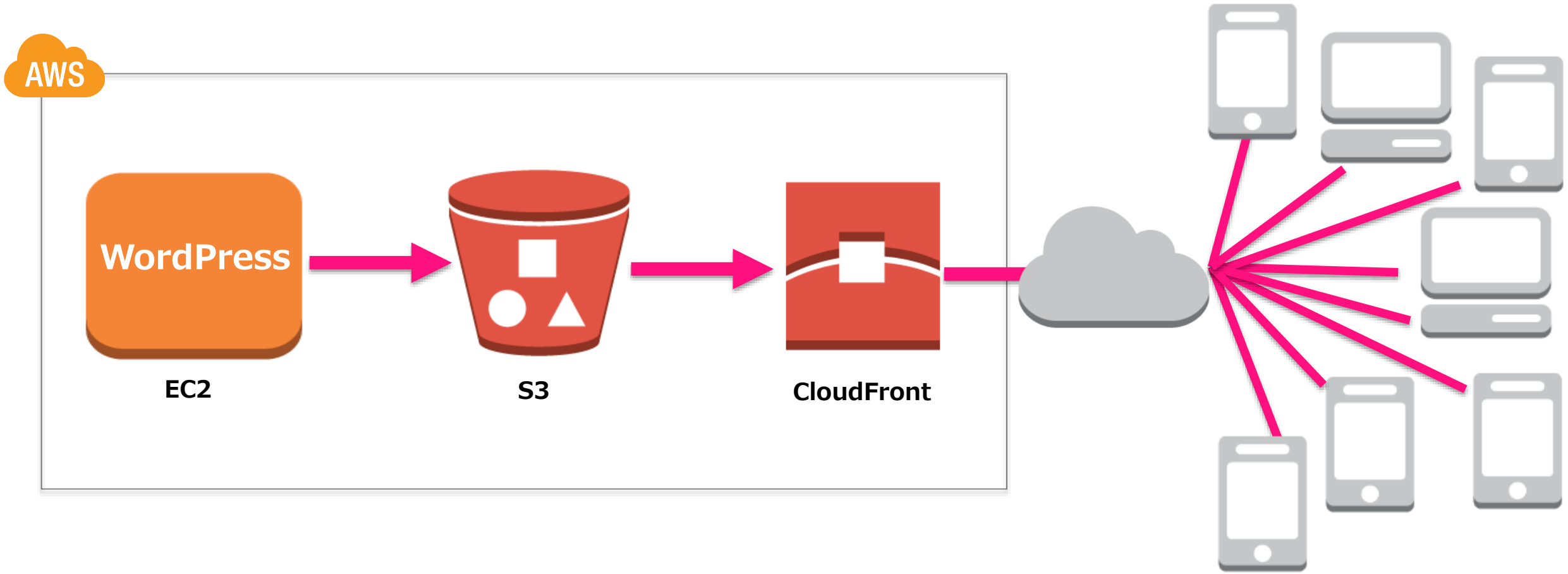
- Using WordPress Plugin like “StaticPress” to make contents static and upload to S3
- Start EC2 instance only when you create contents
  - Utilize per Hour billing model



http://en.staticpress.net/

Amazon S3 – e.g. WordPress Site

S3 + CloudFront can handle massive request



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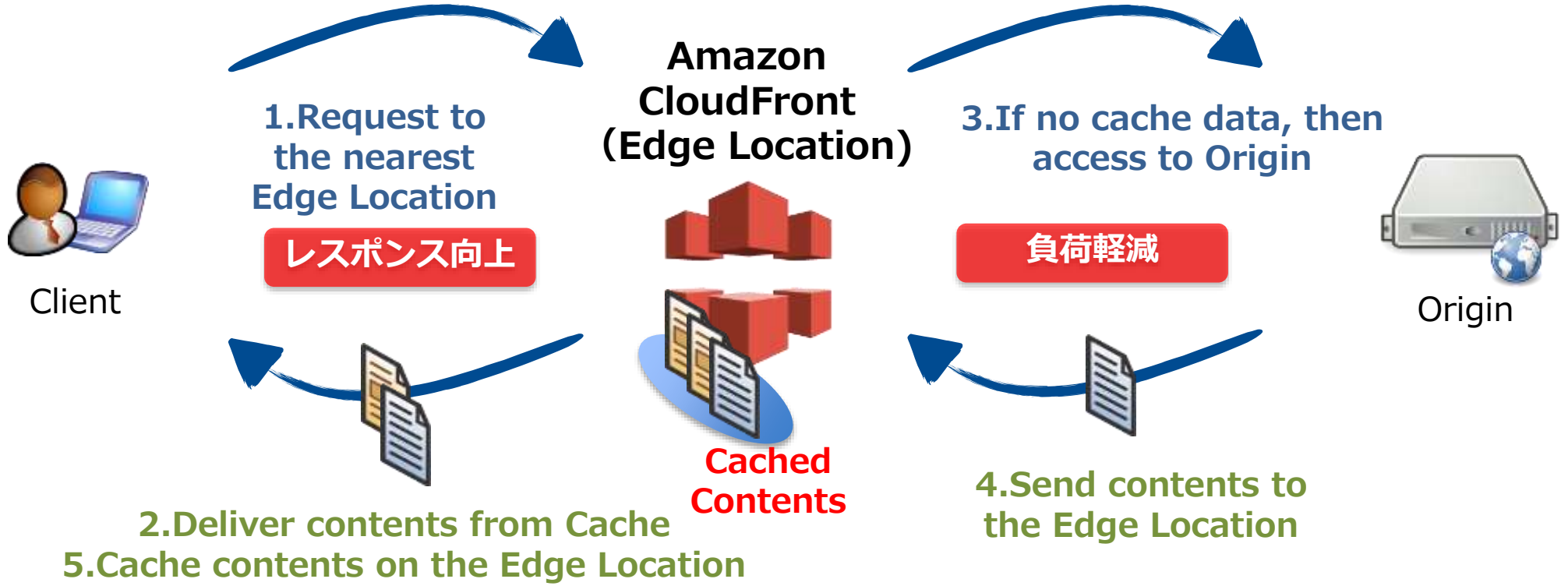
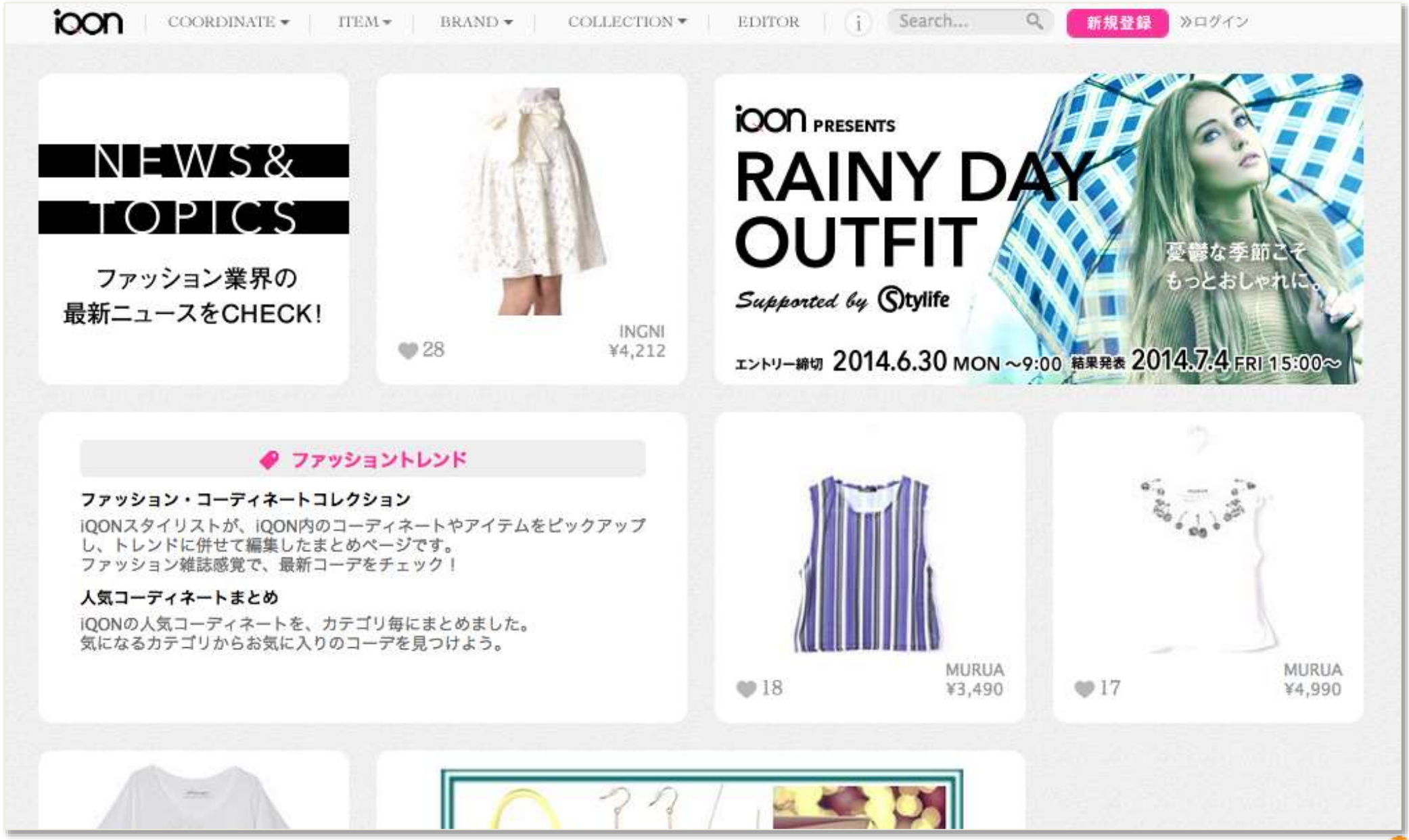
Amazon CloudFront

- Pay-as-you-go Contents Distribution Network
- Route the request to the nearest Edge Location
- Over 50 Edge Locations around the world



iQON http://www.iqon.jp/



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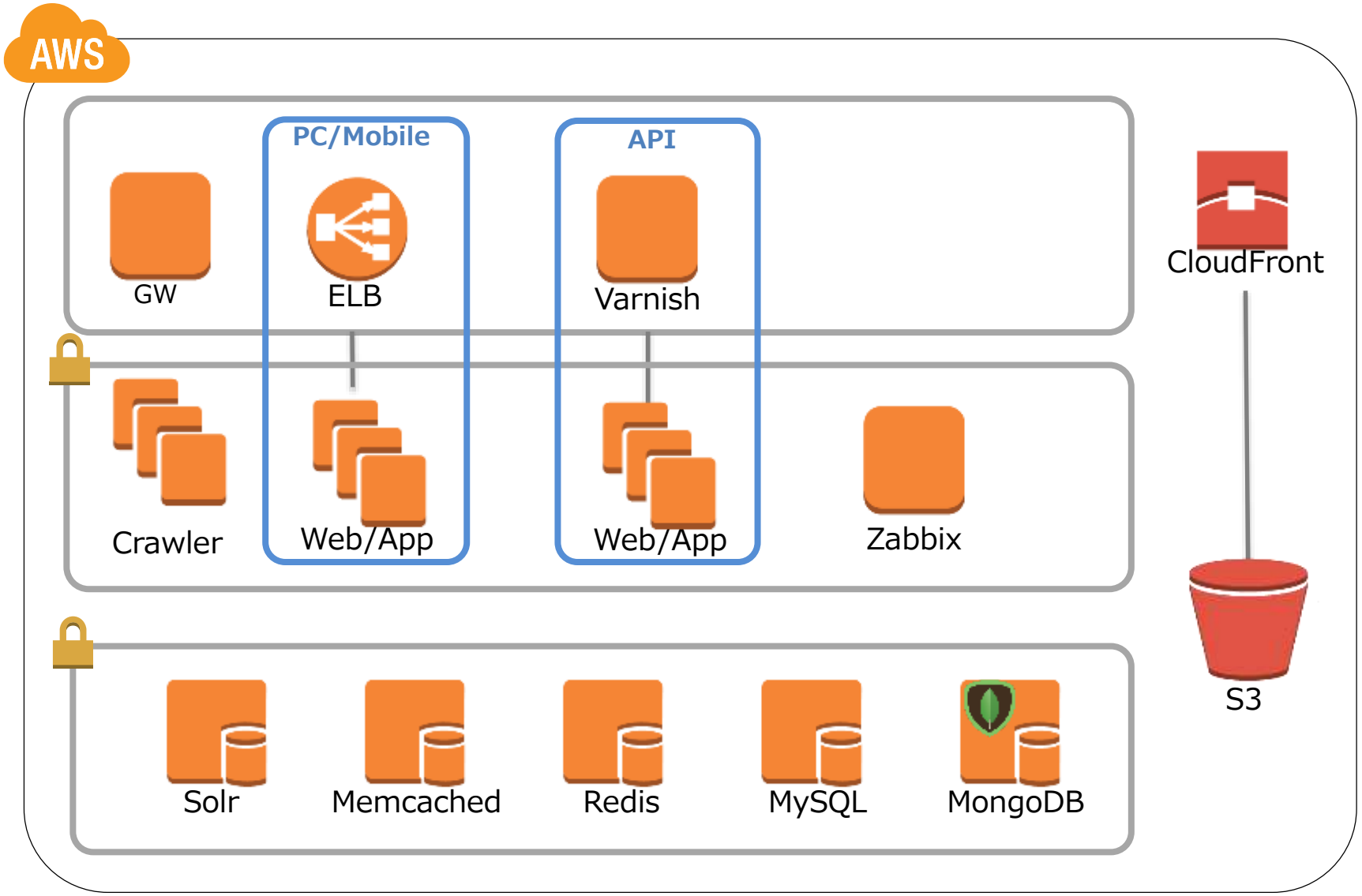

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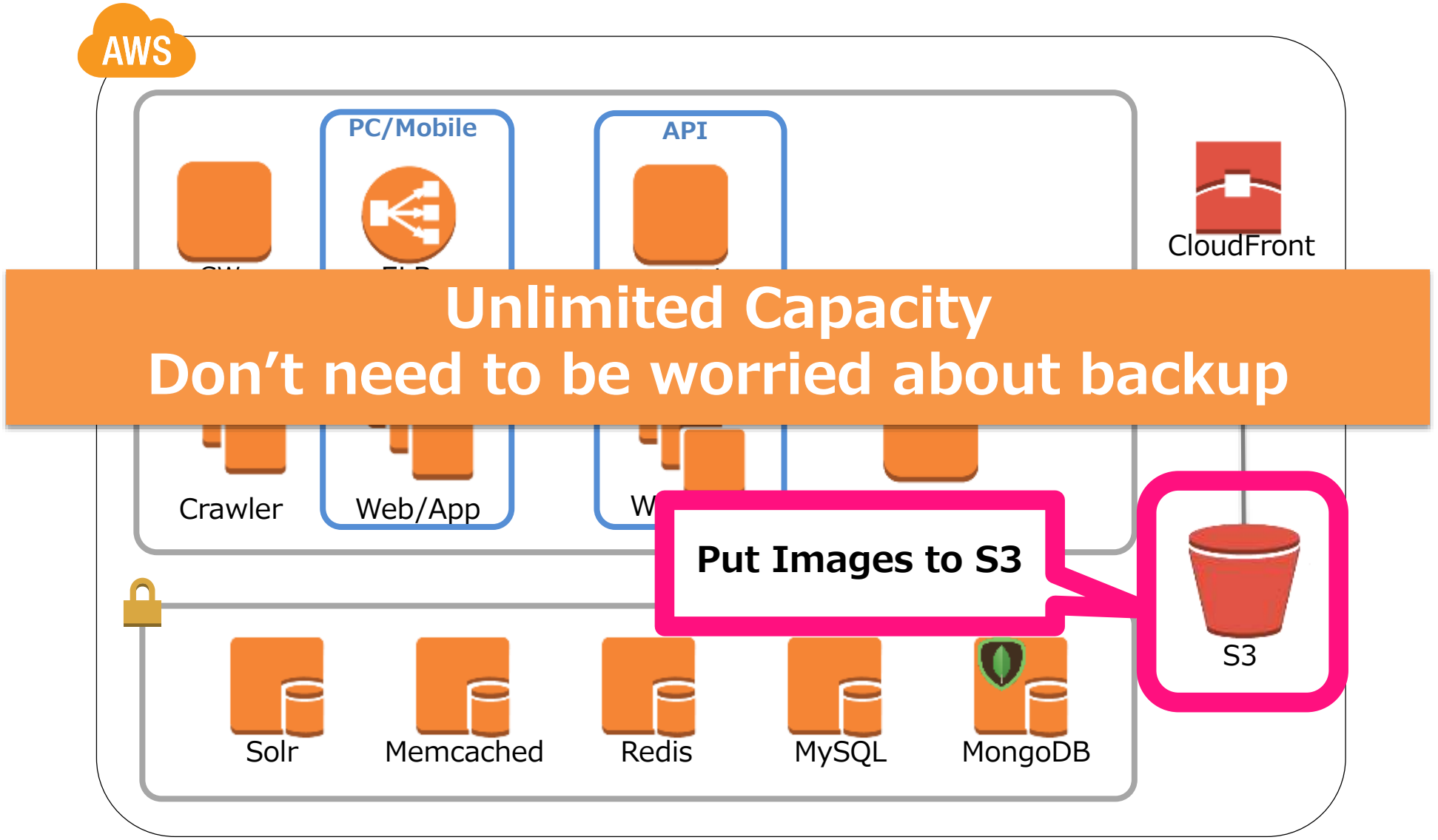

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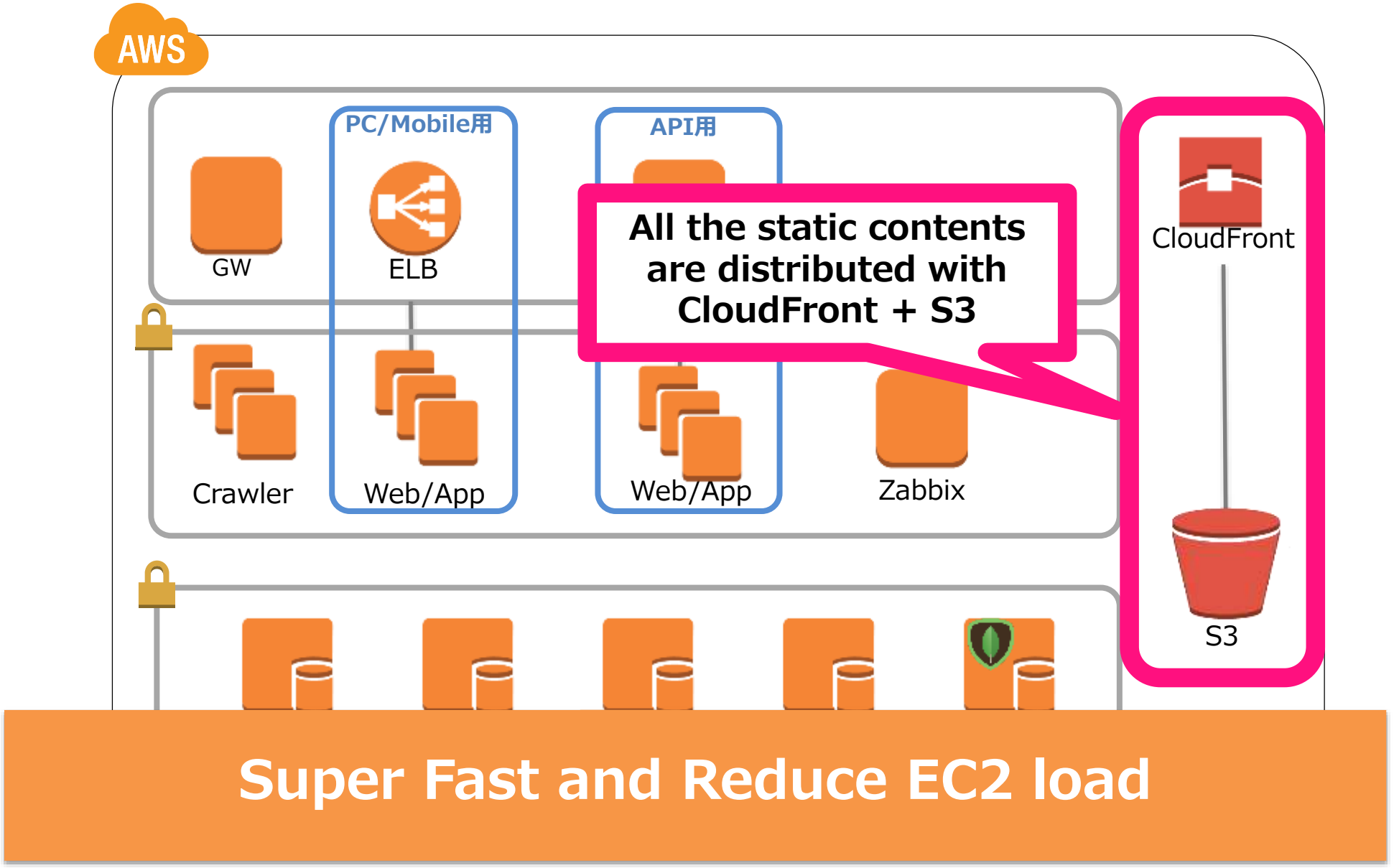

Super Fast and Reduce EC2 load

- **Surefire Architecture**
  - EC2 on Multi-AZ with Elastic Loadbalancer
  - RDS on Multi-AZ enhances Durability and Availability
- **Static Contents Distribution**
  - S3: Unlimited Capacity / Eleven-Nine Durability
  - CloudFront: Super Fast Global Distribution
- **Cool Japanese Startups are actually doing!**

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- **Amazon CloudSearch Startup Use-Cases**

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Access increasing through Internet

- Twitter buzz, Pick up on popular blog, Tech Crunch, News site,,,

Traffic increases gradually

But TV broadcasting…

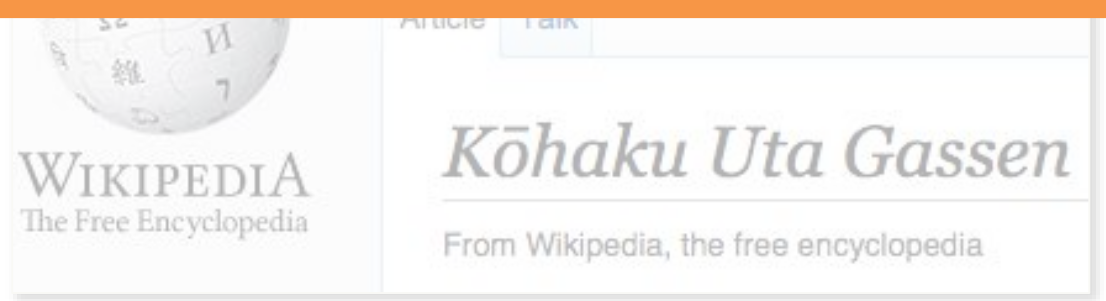
- **NHK Kōhaku_Uta_Gassen**
  - Most popular JP TV Program on the last day of the year
    - Audience Rating is about 50%
  - Second Screen - Smartphone App
    - Handle hundreds thousands of simultaneous requests

[Classmethod Use-Case] http://classmethod.jp/cases/nhk/nhk-kouhaku-64/

But TV broadcasting…

- NHK Kōhaku_Uta_Gassen
  - Most popular JP TV Program on the last day of the year
    - Audience Rating is about 50%
  - Second Screen(Smartphone App)

Burst at sudden!

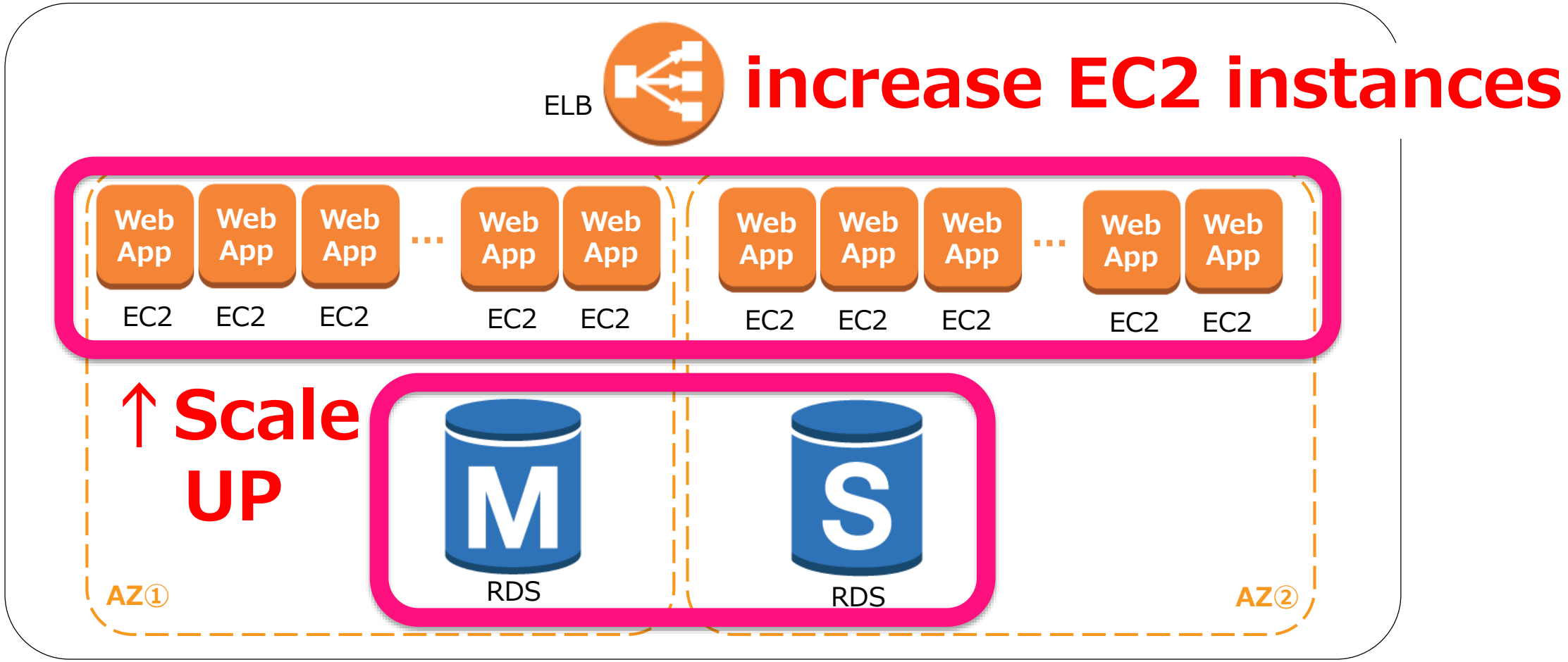


[Classmethod Use-Case] http://classmethod.jp/cases/nhk/nhk-kouhaku-64/

What can we do for that burst?

The ways to take the advantage of chances!

Basic Idea..


ELB
increase EC2 instances
Web App
EC2
↑Scale UP
M
S
RDS
RDS
AZ①
AZ②

Question

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How much is it for Beat “Bursty Traffic”?

For two hours

increase 20 EC2(medium) instances

two stage scale up RDS (medium→xlarge)

- return EC2 and RDS back after two hours
- m3.medium: 1 core CPU / 3.7GB Memory
- m3.xlarge: 4 core CPU / 15GB Memory

1 : $10

2 : $100

3 : $1000

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How much is it for Beat “Bursty Traffic”?

For two hours

increase 20 EC2(medium) instances

two stage scale up RDS (medium→xlarge)

Even 20 instances are in this price range. You can run a lot to be relieved!

*** Don’t forget to return it back!**

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- Is ELB(Load Balancer) OK…?

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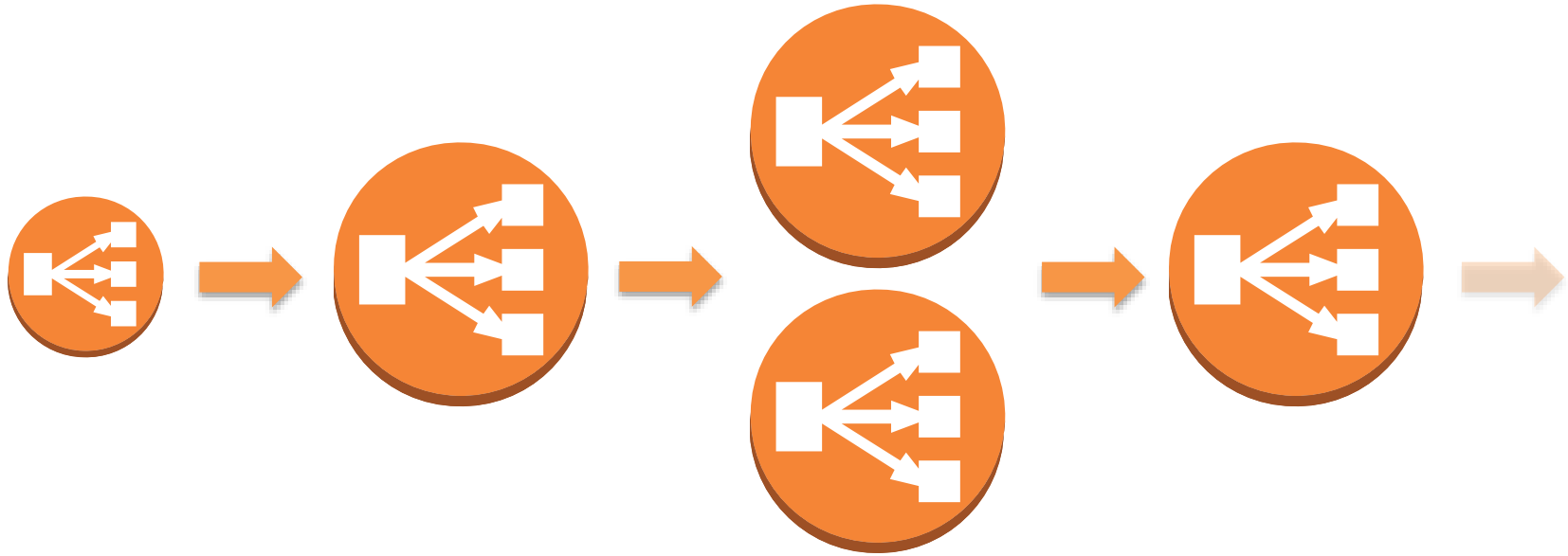
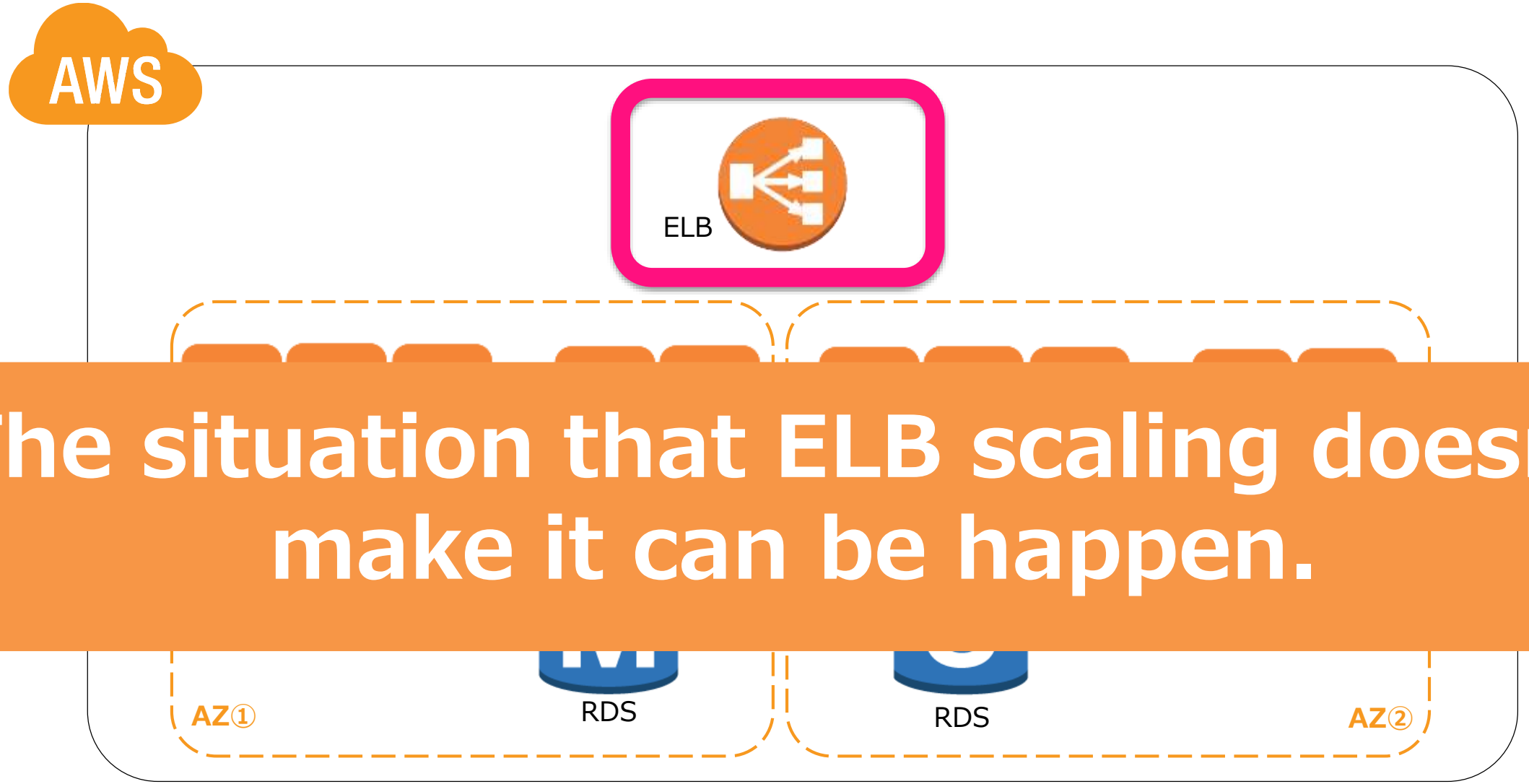
Elastic Load Balancing

- Handling capacity to meet the demands of traffic



ELB can handle generally
But need a little time to scale

But TV broadcasting…



The situation that ELB scaling doesn’t make it can be happen.

AWS Support can scale ELB in Advance

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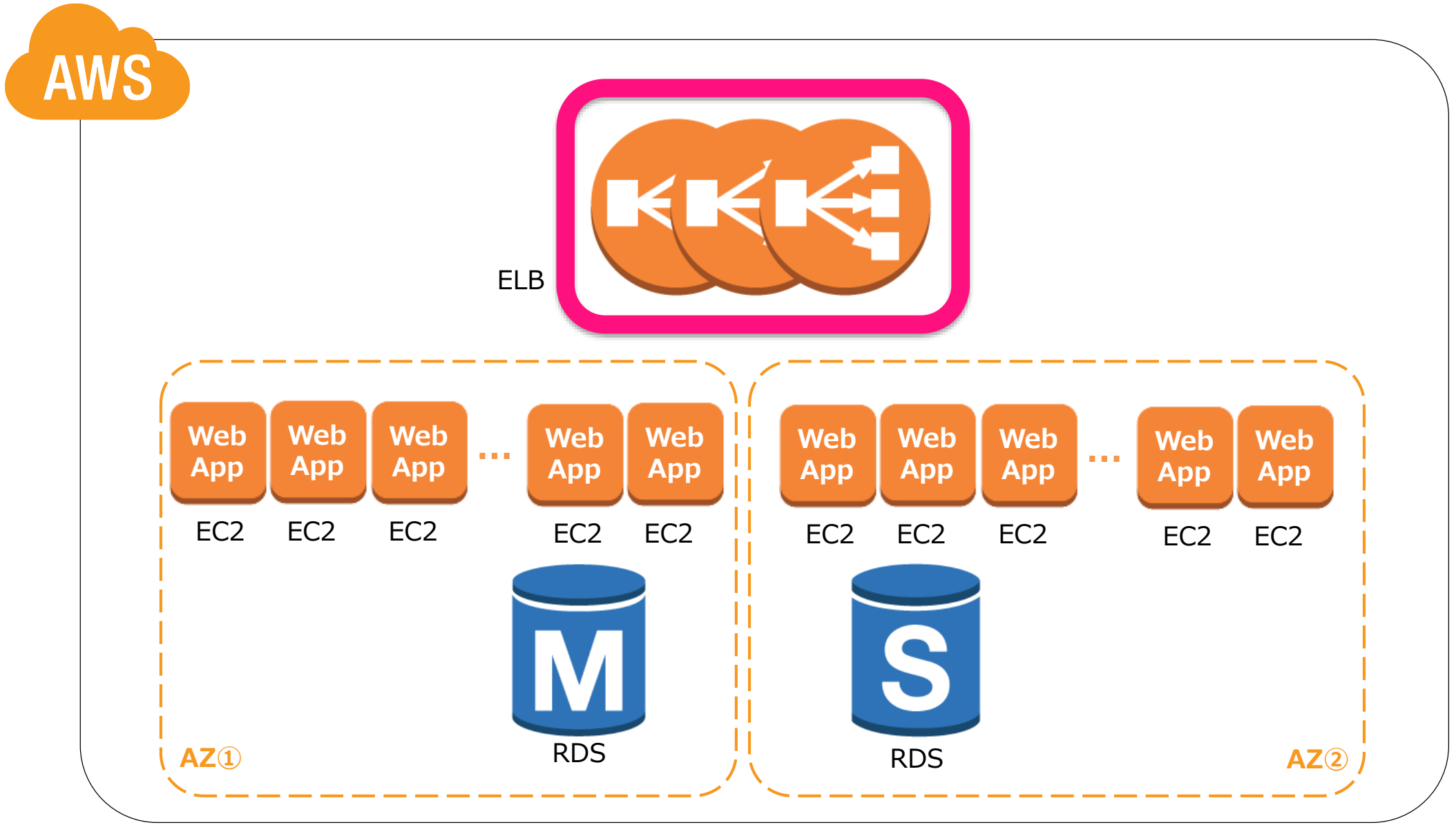
24/365 Support (You can choose JAPANESE!)

	Basic	Developer	Business	Enterprise
Forum	✓	✓	✓	✓
Access to tech support	Support for Health Checks	Email (local business hours)	Phone, chat, email, live screen sharing (24/7)	Phone, chat, email, live screen sharing, TAM (24/7)
Response Time	-	<12 hours	<1 hour	<15 minutes
Users	-	1	Unlimited (IAM supported)	Unlimited (IAM supported)
24/365	-	-	✓	✓
Trusted Advisor	4 checks	4checks	41checks	41checks
TAM	-	-	-	✓
Cost (Monthly)	$0	$49	monthly AWS usage $0~$10K: 10% $10K~$80K: 7% $80K~$250K: 5% $250K~: 3% (Min $100)	10% of AWS monthly usage (Min $15000)

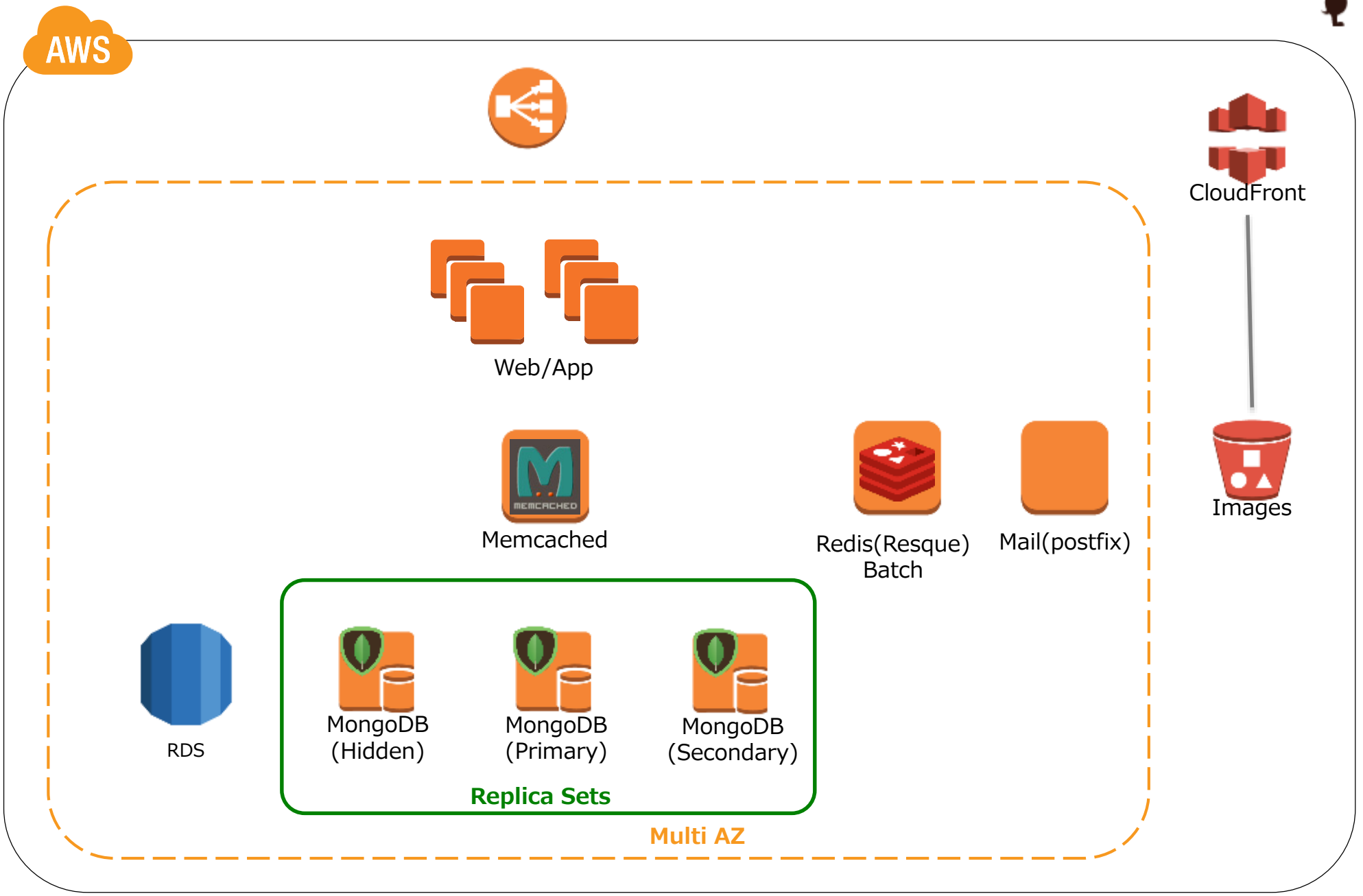
AWS Support(Business) can handle ELB Pre-Warming

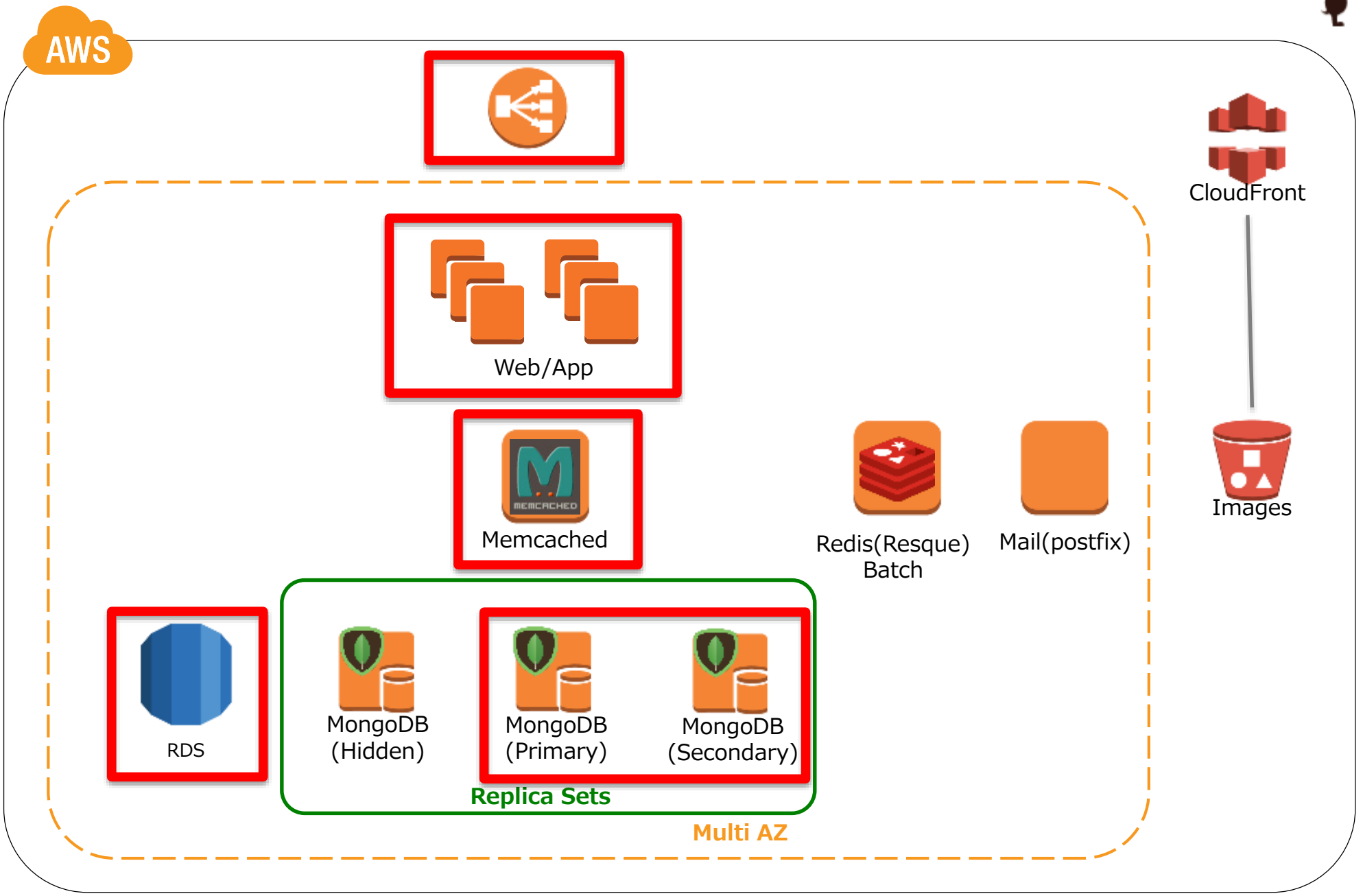


JMTY http://jmty.jp/

- **Similar to craigslist. Picked up frequently on TV**

“JMTY Engineers and AWS team are handling massive traffic! Great!”


AWS
CloudFront
Web/App
Memcached
Redis(Resque)
Batch
Mail(postfix)
Images
RDS
MongoDB
(Hidden)
MongoDB
(Primary)
MongoDB
(Secondary)
Replica Sets
Multi AZ


AWS
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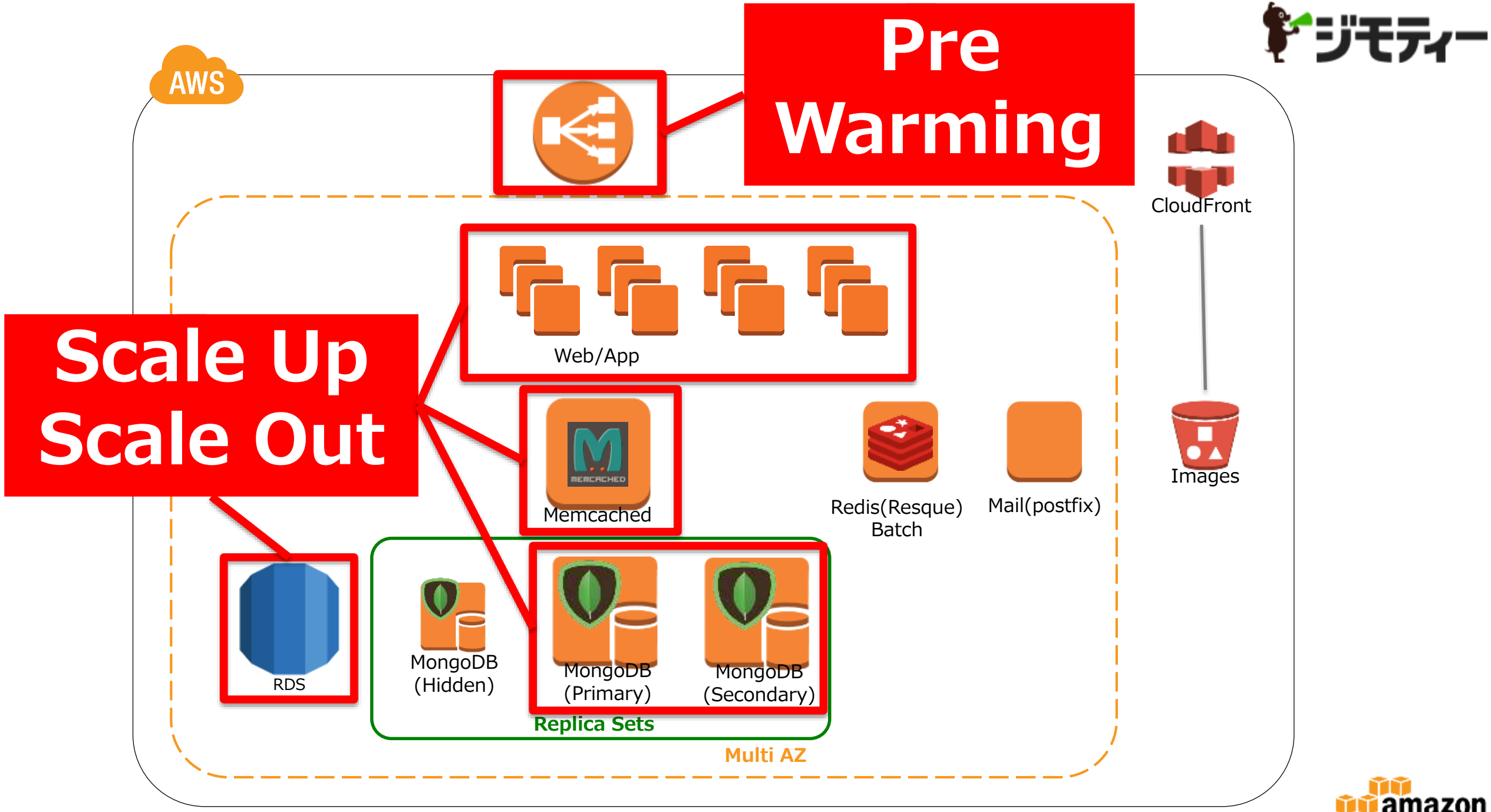

ジモティー
AWS
Pre Warming
Scale Up
Scale Out
CloudFront
Web/App
Memcached
Redis(Resque)
Batch
Mail(postfix)
Images
RDS
MongoDB
(Hidden)
MongoDB
(Primary)
MongoDB
(Secondary)
Replica Sets
Multi AZ
amazon web services

schoo http://schoo.jp/

schoo WEB-campus

Life-long learning platform. Getting popular!

【アサ秘ジャーナル取材班が日本の『学校』を徹底取材する！】

It’s me ☺

amazon web services

schoo http://schoo.jp/

schoo WEB-campus

heard from schoo engineer Iwata-san about their activity for TV broadcasting

Schoo engineer Iwata-san

▼改定前価格（2015年3月31日中ご登録分まで）**525**円/月額
▼改定後価格（2015年4月1日以降ご登録分より）**980**円/月額

amazon web services

Solutions For TV broadcasting at schoo

schoo WEB-campus

- **Create tens of EC2 instances from AMI**
  - **It took about 1 hour**
- **Just before and after the TV program**
  - **Low Cost Affordable!**
- **Set aside extra EC2 instances**
  - **Relieved and Didn’t have any problem!!**

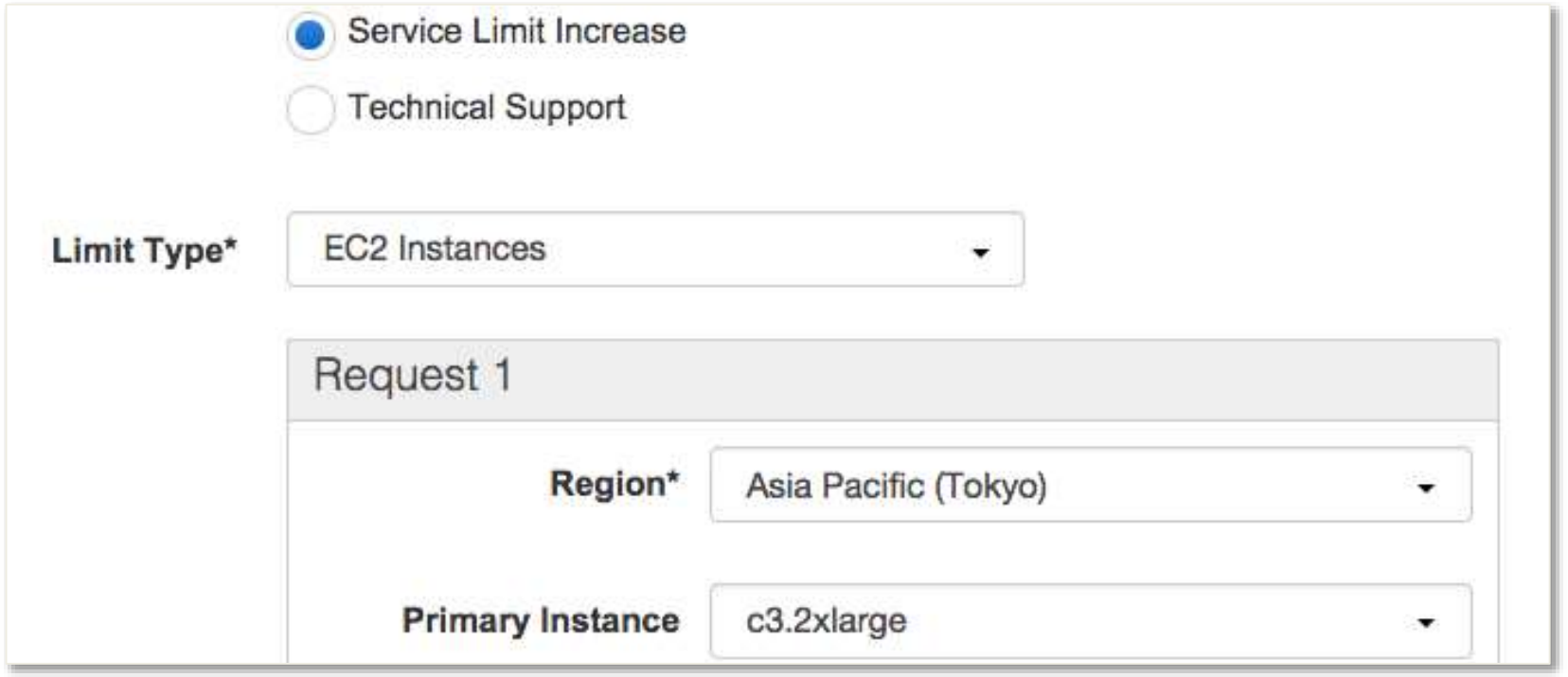
amazon web services

Solutions For TV broadcasting at schoo

schoo WEB-campus

Create AWS Support cases

- **EC2 Instances Limit Increase**
  - Instance numbers is limited to avoid unnecessary problem by default
- **ELB Pre-Warming**



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Solutions For TV broadcasting at schoo

schoo WEB-campus

- **Iwata-san said**
  - **Thanks to Japanese Language Support!!**
  - **Didn’t have any problems. It was quite smooth.**

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Agenda

- **Surefire Architecture**
  - ELB + EC2 + RDS on MultiAZ
  - Super Fast Distribution with S3 + CloudFront
- **Beat “Bursty Traffic”**
  - How to beat burst
  - Cost range
- **Startup Pragmatic Use-Cases**
- **Amazon CloudSearch Startup Use-Cases**

amazon web services

Pairy

Top Member Press Release Special Interview Lifeline Contact 採用情報

For Couples. Photo Album / Chat / Date schedule

大人も楽しめる！無料アプリ！

２人だけのアルバムやプロフで、すべての思い出が残せるカップル専用アプリ

スマホにダウンロードURL送る

メールアドレス　送信

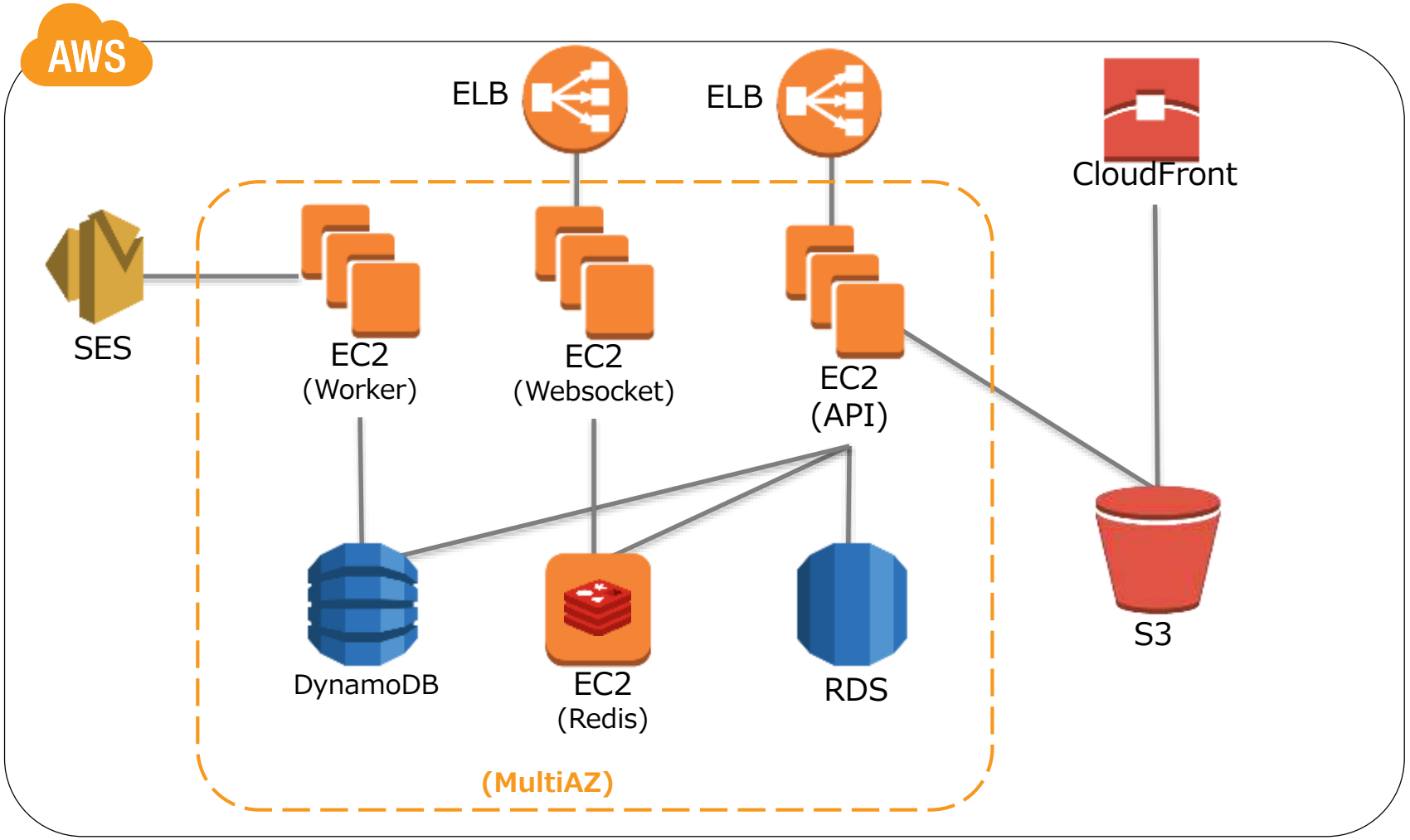
Available on the App Store　Available on the Google play

いいね！ 1,461　ツイート 1,882　g+1 100　B! 111

amazon web services

Pairy http://pairy.com/

Pairy

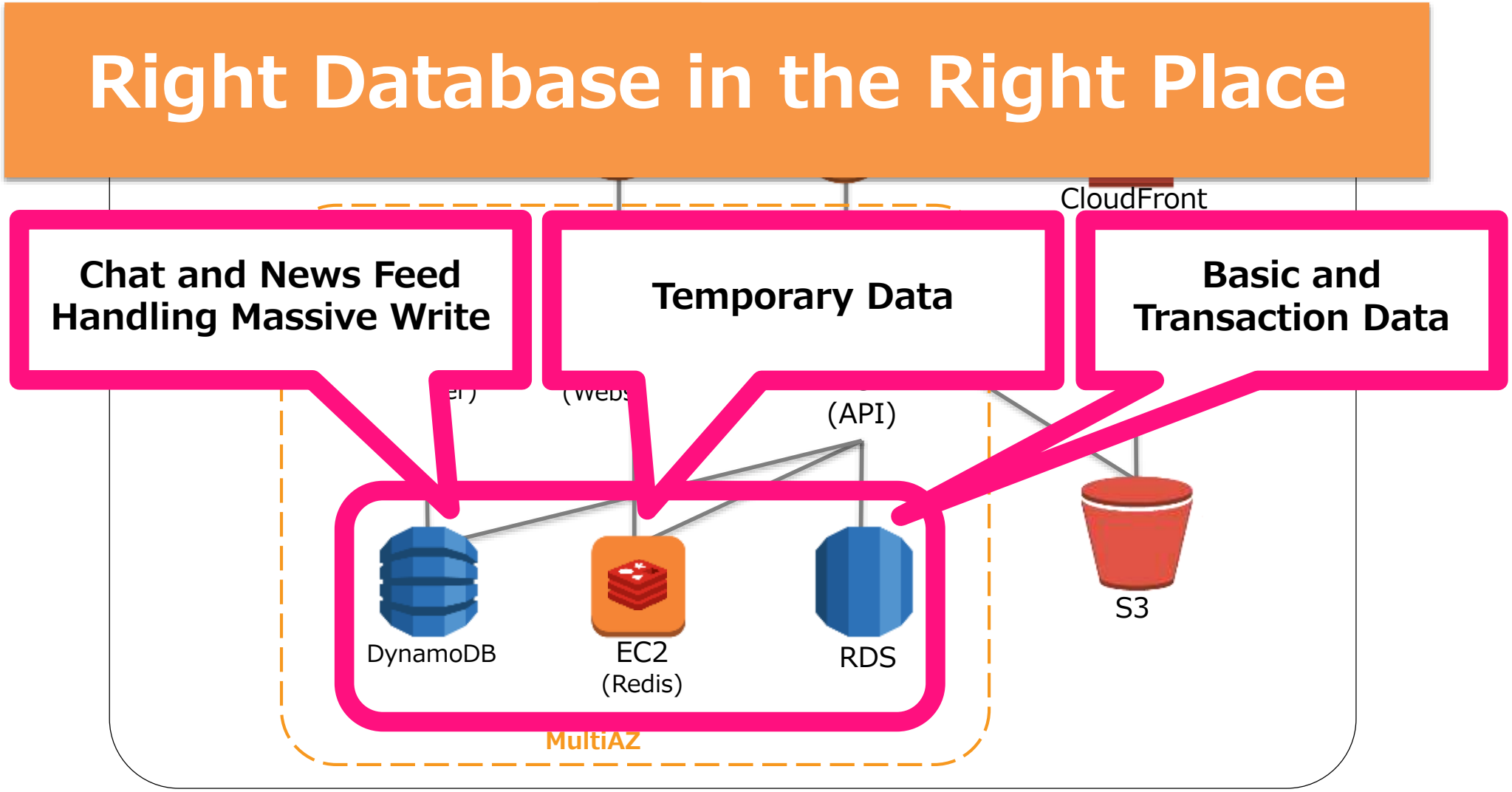


amazon web services

Pairy http://pairy.com/

Pairy

Right Database in the Right Place



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C2C Market Place like Etsy

STORES JP

最短２分で、驚くほど簡単に
オンラインストアがつくれる

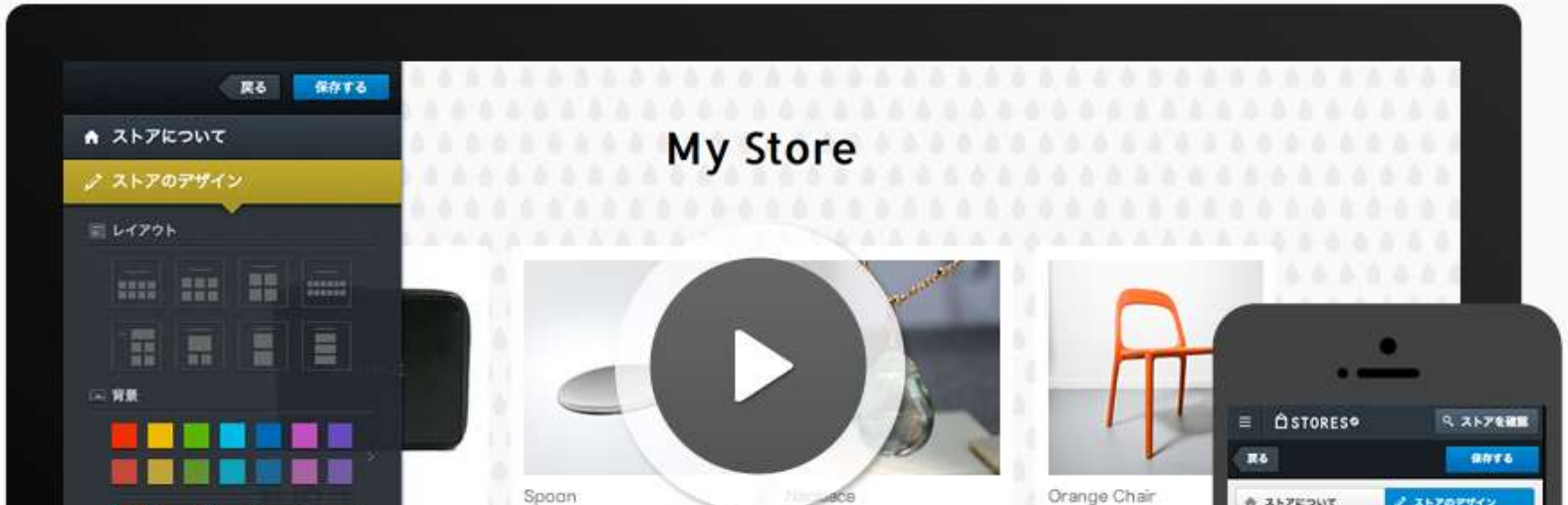
まずは自分のストアのURL（アドレス）を決めてみよう！

ストア開設数 70,000 以上！

http://　　.stores.jp

入力してください

無料でストアを開く!



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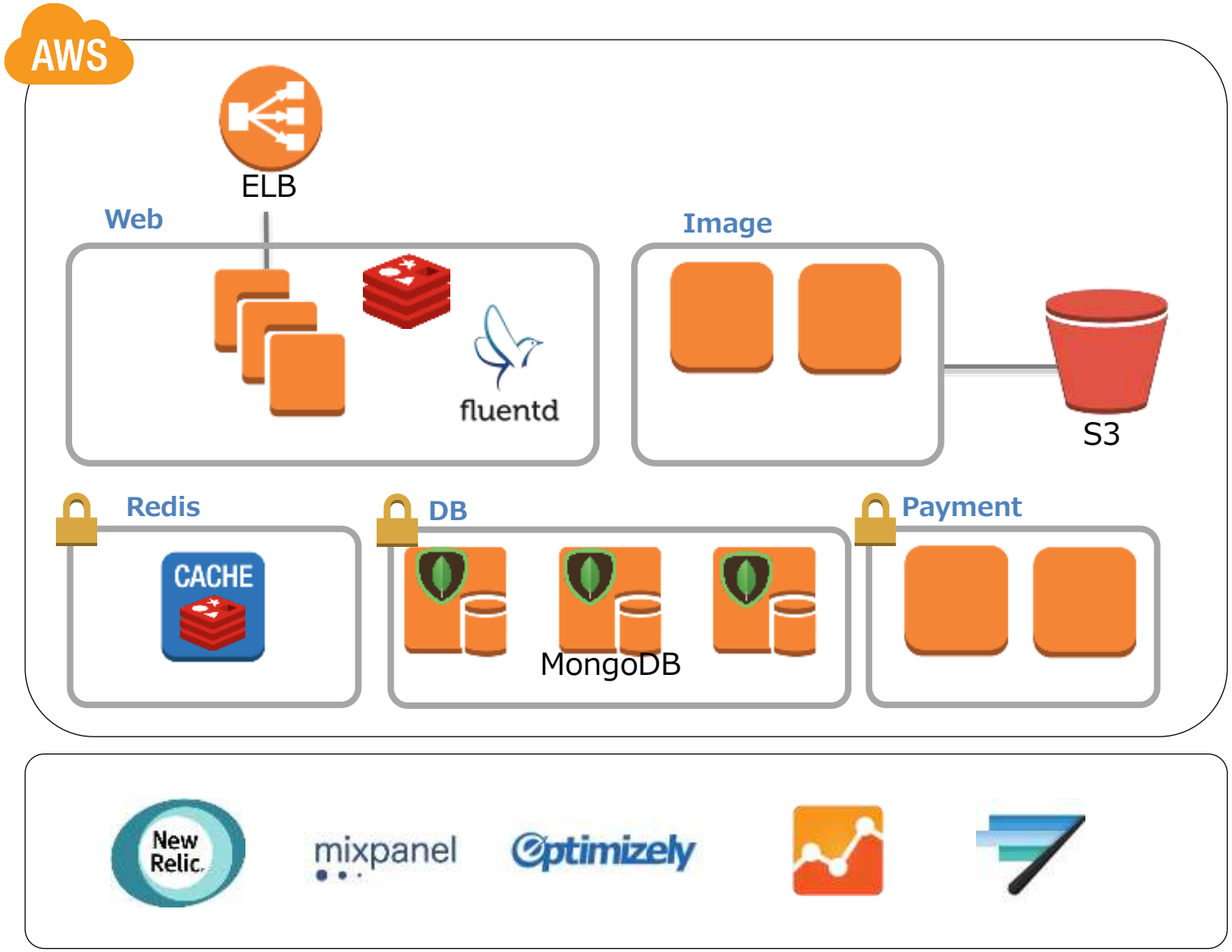
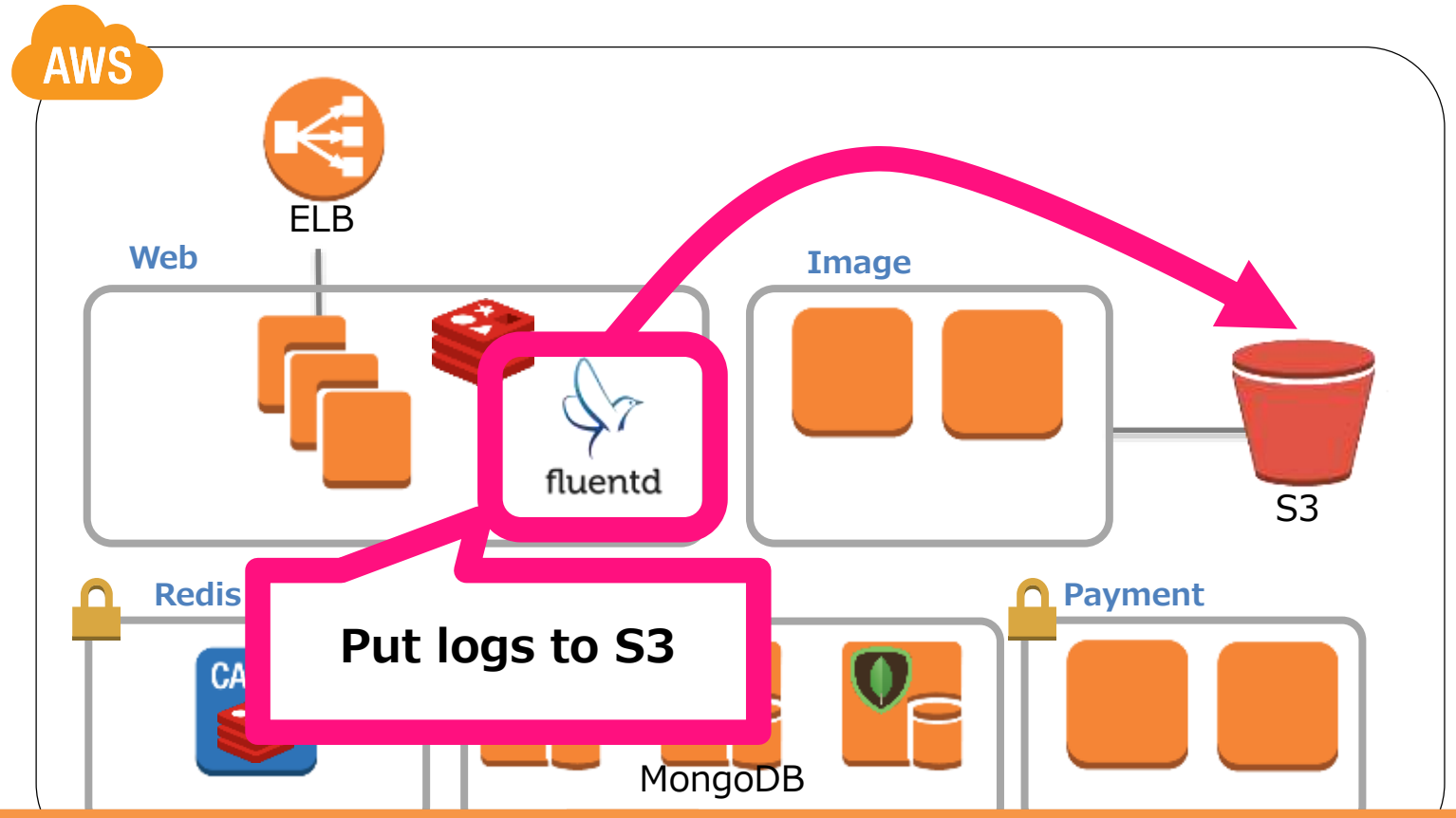
STORES.jp https://stores.jp/



STORES.jp https://stores.jp/



Using Log collector “Fluentd”
There is an S3 plugin(fluent-plugin-s3)
Easy to gather log data

Agenda

- **Surefire Architecture**
  - ELB + EC2 + RDS on MultiAZ
  - Super Fast Distribution with S3 + CloudFront
- **Beat “Bursty Traffic”**
  - How to beat burst
  - Cost range
- **Startup Pragmatic Use-Cases**
- **Amazon CloudSearch Startup Use-Cases**

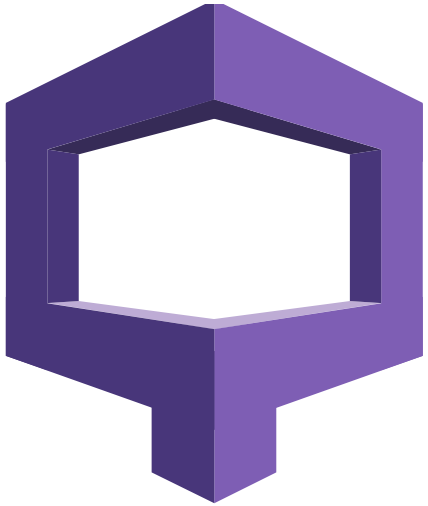
amazon web services

- Japanese Search function??

amazon web services

Amazon CloudSearch

- Full Managed Cloud-Based Search Service
- Pretty easy to introduce
- 34 languages support
- Sophisticated Functions
  - Highlight
  - Suggest(AutoComplete)
  - Geo Search



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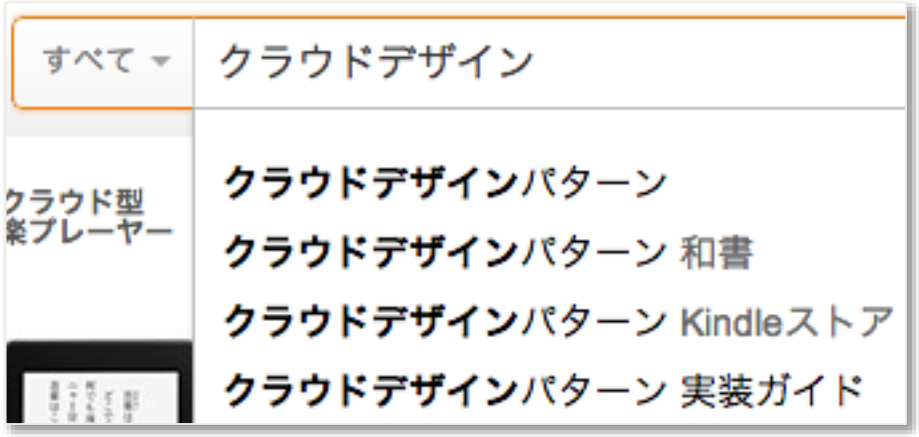
Amazon CloudSearch

Suggestions



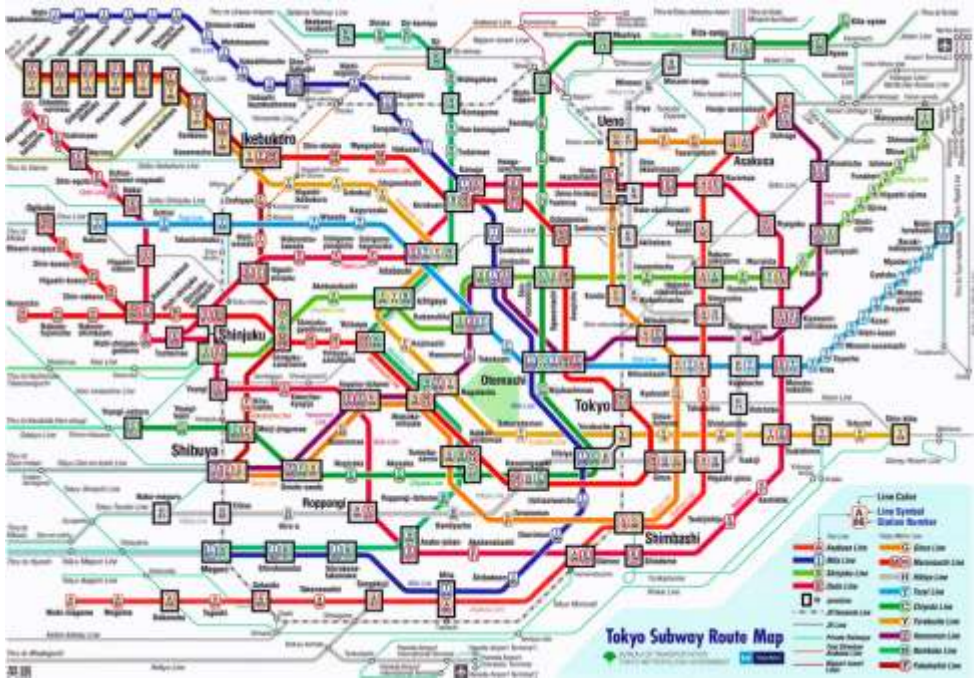
/**suggest**?q=ir&suggester=title_sug

```
"suggest": {"query": "iro", "found": 5,
 "suggestions": [
  {“suggestion”: “Iron Man”,…"id": "tt0371746"},
  {"suggestion": "Iron Man 2”,…"id”:"tt1228705"},
    …
```

- **Reading Search**
- **Japanese language has Kanji/Hiragana/Katakana ,,**

e.g. Nanboku Line Subway Station Search

目黒
白金台
白金高輪
麻布十番
六本木一丁目
溜池山王
永田町
四ツ谷
市ケ谷
飯田橋
後楽園
東大前
本駒込
駒込
西ケ原
王子
王子神谷
志茂
赤羽岩淵



南北線の9000系電車

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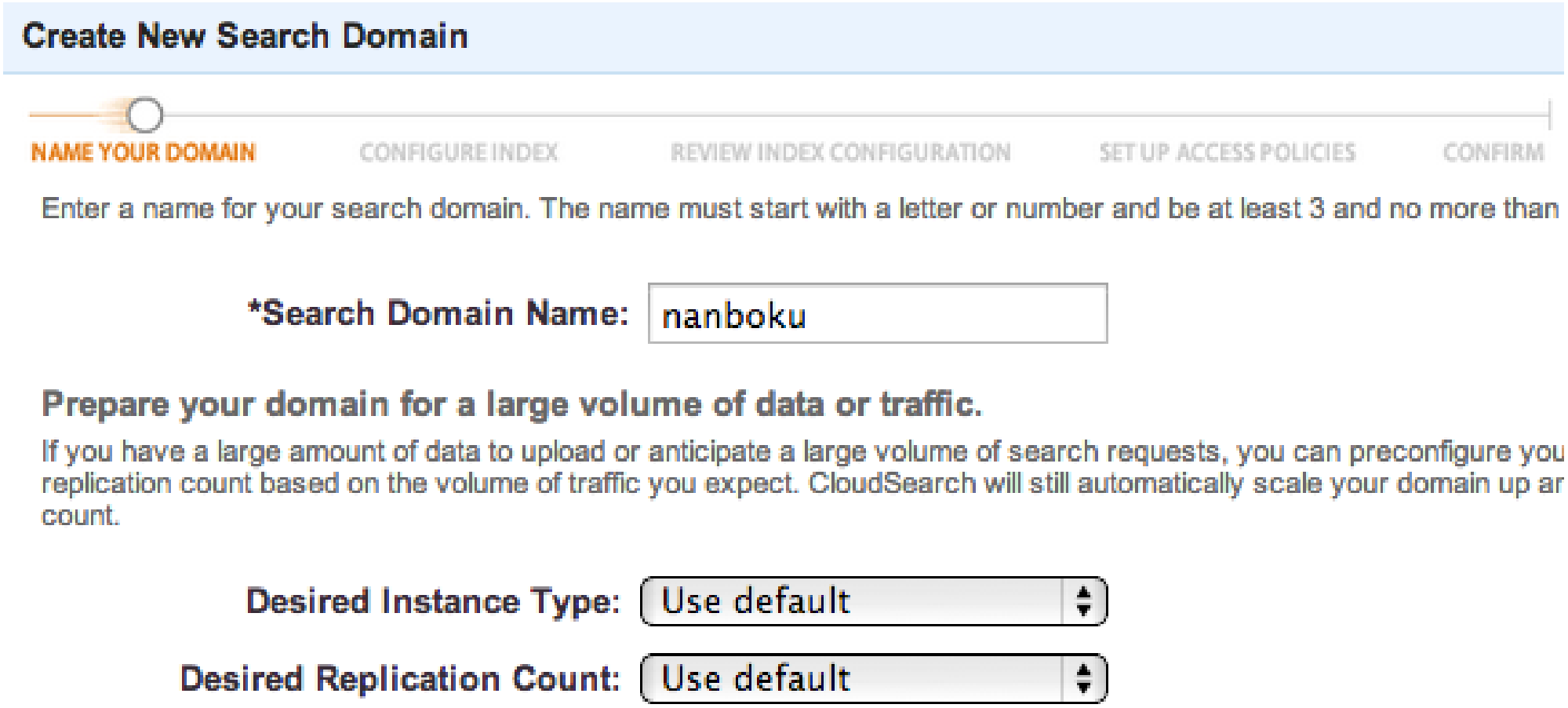
Using Amazon CloudSearch

- Create Domain



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Using Amazon CloudSearch

- Data(Station name&Line name)

```
[ {
  "type" : "add",
  "id" : "nanboku_01",
  "fields" : {
    "code" : "N-01",
    "name" : "目黒",
    "lines" : ["東急目黒線","都営三田線","ＪＲ山手線","東京メトロ南北線"]
  }
},
{
  "type" : "add",
  "id" : "nanboku_02",
  "fields" : {
    "code" : "N-02",
    "name" : "白金台",
    "lines" : ["都営三田線","東京メトロ南北線"]
  }
```

Station Code

Station Name

A lot of stations are served by multiple line in Tokyo

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Using Amazon CloudSearch

Schema design(Field definition)

Name	Type	Search	Facet	Return	Sort	Highlight	Analysis Scheme
code	literal	☑	☑	☑	☑		
name	text	☑		☑	☑	☑	Japanese
lines	text-array	☑		☑		☑	Japanese

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Using Amazon CloudSearch

- Search with “JR山手線” (most popular circle line in Tokyo)

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Using Amazon CloudSearch

- Search with “麻布” or “一丁目”

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Knowledge is needed to manage Search service..

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Search Engine

- Find documents with keyword from large amount of data
  - Incrementally like grep? It takes too long
  - Need to build index in advance(Inverted Index)
  - TF-IDF scoring
  - Multiple Query Parser Support

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CloudSearch - Japanese Text Processing

- **形態素解析(Morphological Analysis)**
  - 彼(名詞-代名詞)/は(助詞-係助詞)/**エンジニア**(名詞-一般)/だ(助動詞)
- **Stemming**
  - 飲んだ → 飲ん(動詞-自立, baseForm:飲む)/だ(助動詞) → **飲む**
- **Synonym Addition**
  - 「ベニス」「ベネチア」「ヴェネチア」
  - Alias
    - search with pupil => student is hit
    - search with student => pupil in NOT hit
  - Group
    - 1st, first, one => you can search with all keywords in the group
- **Stop Word Removing**

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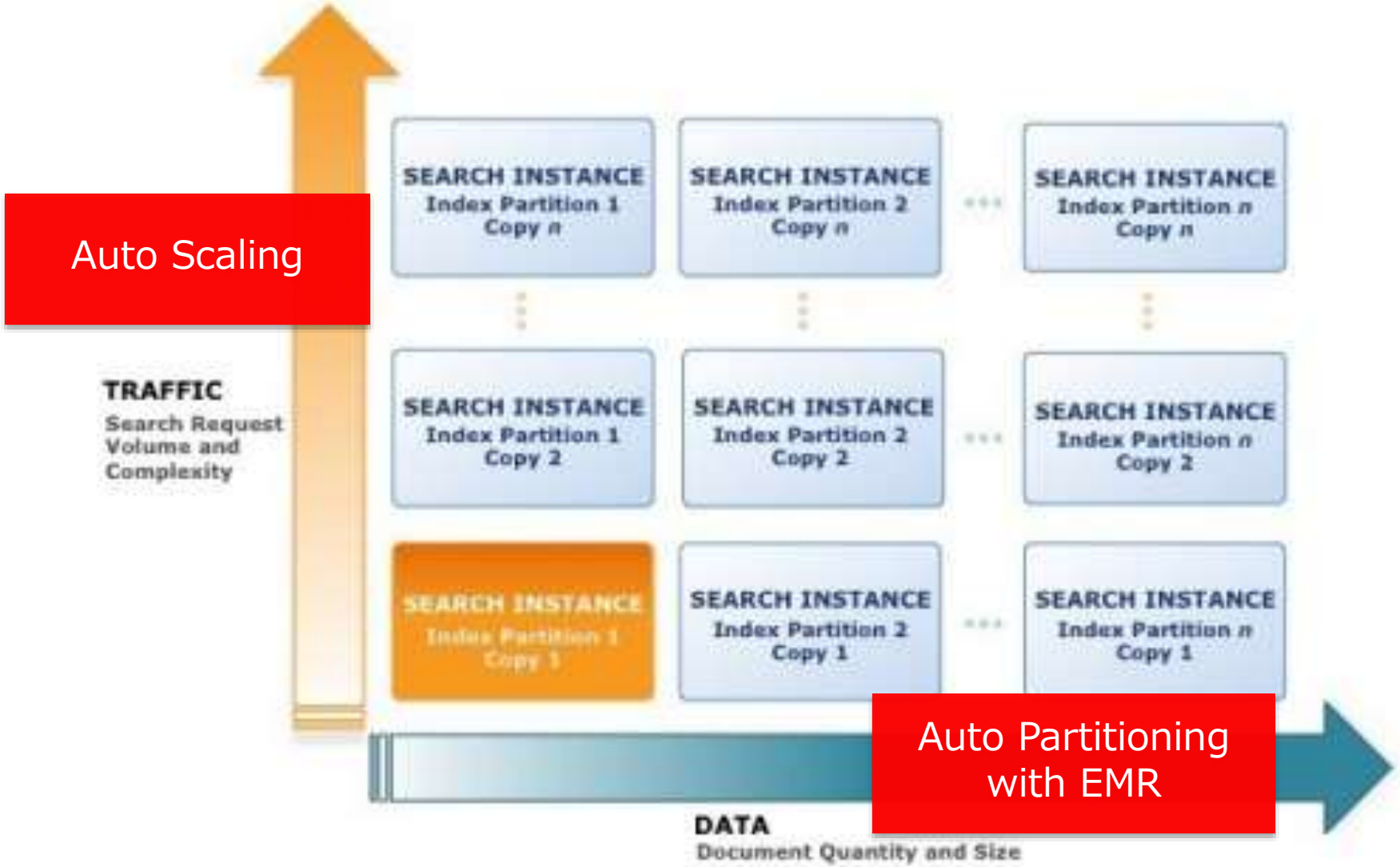
Automatic Scaling

- By Document size/number and Search Request



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CloudSearch – support variety of filed types

Field Types

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Amazon CloudSearch Meetup in Tokyo

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CloudSearch use-case: ChatWork

- ChatWork: Business Communication Tool
  - Over 40 thousand companies are using
  - About a half million users

- comment from ChatWork CTO Yamamoto-san
  - “To handle about 5 hundred million documents, we introduced CloudSearch. Thanks to AWS and A9 team, it took only a few month.”

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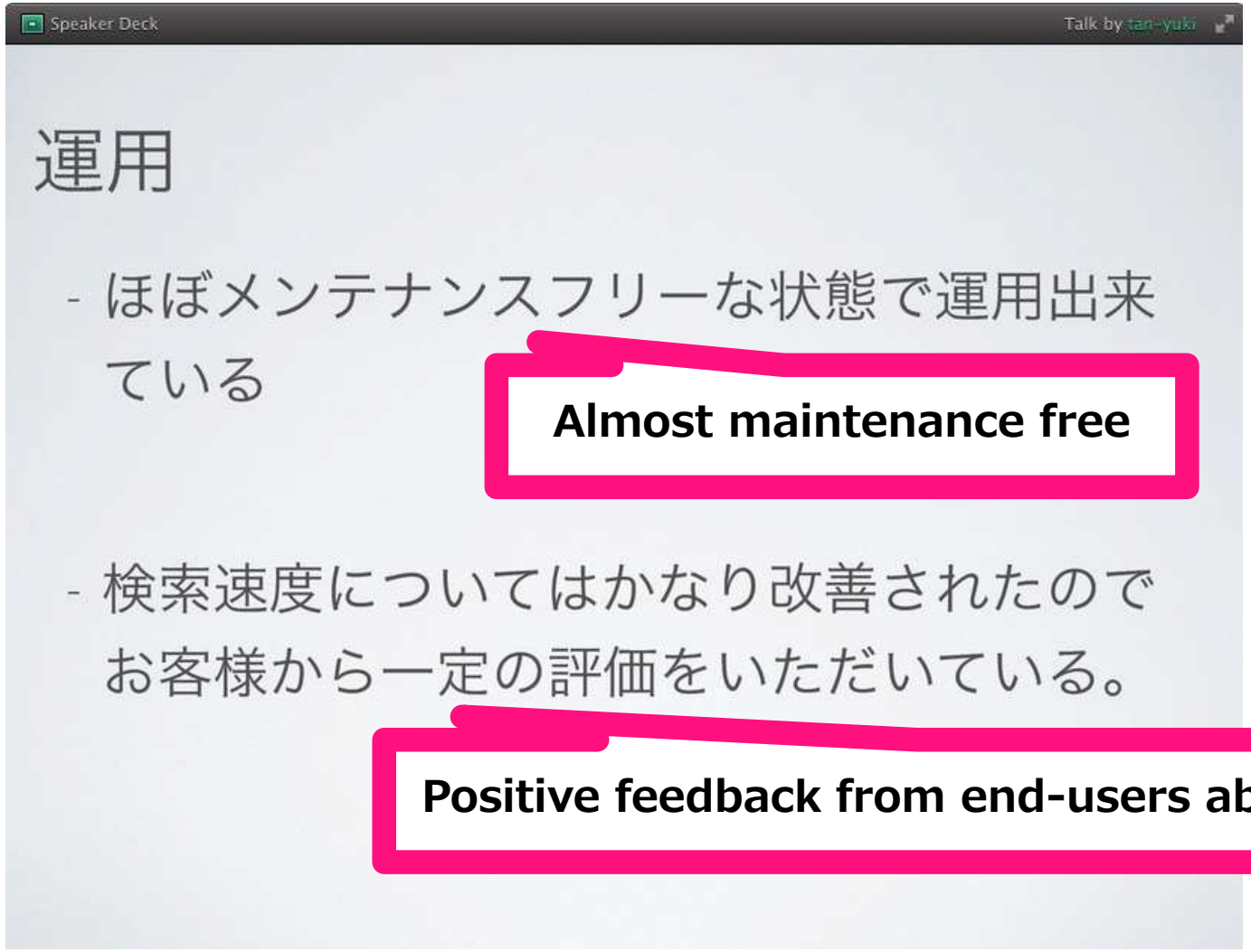
CloudSearch use-case: ChatWork Tanaka-san slide



https://speakerdeck.com/tanakayuki/kai-fa-zhe-karamitacloudsearch

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CloudSearch use-case: Engineer Cross2015(29th Jan)

- ChatWork is making CloudSearch noise in Japan

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CloudSearch use-case: nanapi

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CloudSearch use-case: nanapi

- nanapi is a Life Recipe portal
  - About 20 million per user per Month
  - Over 0.1 million recipes

- Getting popular these days

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CloudSearch use-case: nanapi Kagaya-san slide

- **Default setting works a lot**
- **Easy to have Japanese search function**
- **Fully managed by AWS is huge plus**

https://speakerdeck.com/violetyk/cloudsearch-nanapi-use-case

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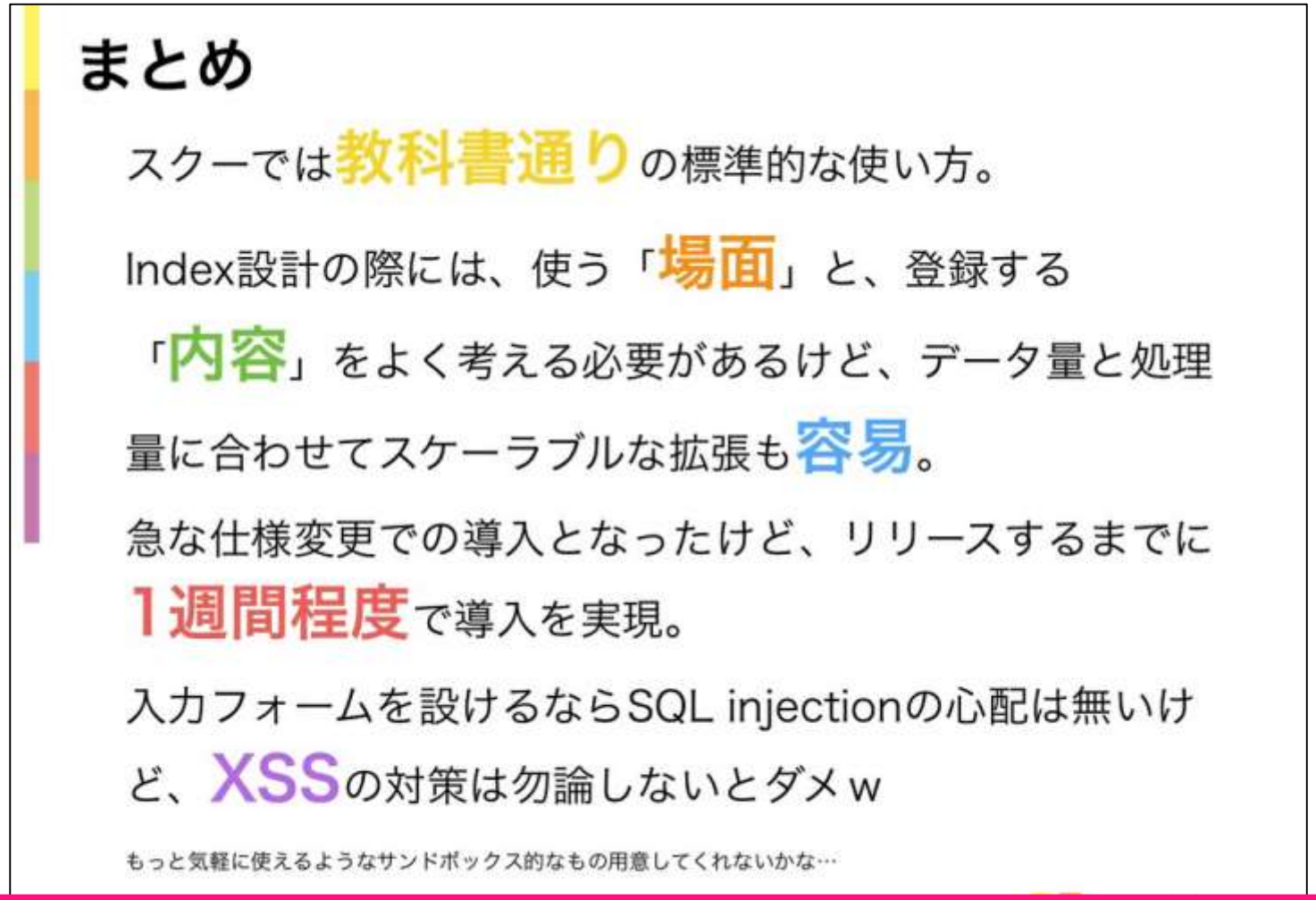
CloudSearch use-case: schoo

CloudSearch use-case: schoo

- schoo
  - Learning platform for hundreds of thousands students
  - Over 1000 students join in popular class!
- You can learn “AWS” on schoo ☺

CloudSearch use-case: schoo Ito-san slide



It took only 1 WEEK to introduce. It's so easy and nice. Of course you need to escape XSS stuff

http://www.slideshare.net/hiromitsuito71/20141017-cloud-searchschoo

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Japanese Language is not so easy

- Yahoo! Japan Search Engineer Osuka-san slide

Japanese Processing
日本語処理

- Maintain a Dictionary of Morphological Analysis / Debugging function
  形態素解析器用辞書のメンテナンスとデバッグ機能
- Constructional Ambiguity of Japanese
  日本語の構造的多義性

How do you tokenize
“こちらは社長室長谷川さんです”？

1. こちら / は / 社長 / 室 / 長谷川 / さん
   This is Hasegawa-san, Member of President’s Office.

2. こちら / は / 社長 / 室長 / 谷川 / さん
   This is Tanigawa-san, Executive secretary of President’s Office.

Hasegawa-san？
Tanigawa-san??

Need to analyze and only the user can know the answer

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CloudSearch Updates

Request from Japan

- **Indexing Bigrams**
  - Bi-gramでのインデクシング

- **Customizing Japanese Tokenization**
  - 形態素解析辞書のカスタマイズ

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Tokenization Dictionary

Request from Japan

New Analysis Scheme

Specify a name for the analysis scheme, select a language, and configure the scheme's text processing options.

***Analysis Scheme Name:** ***Analysis Scheme Language:** Japanese

Stopwords | **Stemming** | **Synonym** | **Tokenization Dictionary**

A tokenization dictionary is a collection of entries where each entry specifies a set of characters, how they should be segmented, one or more readings, and a part of speech tag. You specify the dictionary as a string that specifies a JSON representation of the dictionary. The dictionary is an array and each dictionary entry is an array of strings.

The example below the editor shows the correct JSON format.

Text: e.g. 日本経済新聞

Tokens: e.g. 日本 経済 新聞

Readings: e.g. ニホン ケイザイ シンブン

Part of Speech: e.g. カスタム名詞

Add

Current Tokenization Dictionary:

```
1 [
2
3 ]
```

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CloudSearch use-case: Lancers

Crowd-sourcing service

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CloudSearch use-case: Gochi-Kuru

Bento-Box delivery service

Utilizing AWS fully managed service

A lot of engineers said

“We don’t need to do a lot for operation and maintenance things.
Then we can spend the time for enhancing the service quality and new service features. “

As a Solution Architect, it’s really good to hear!!

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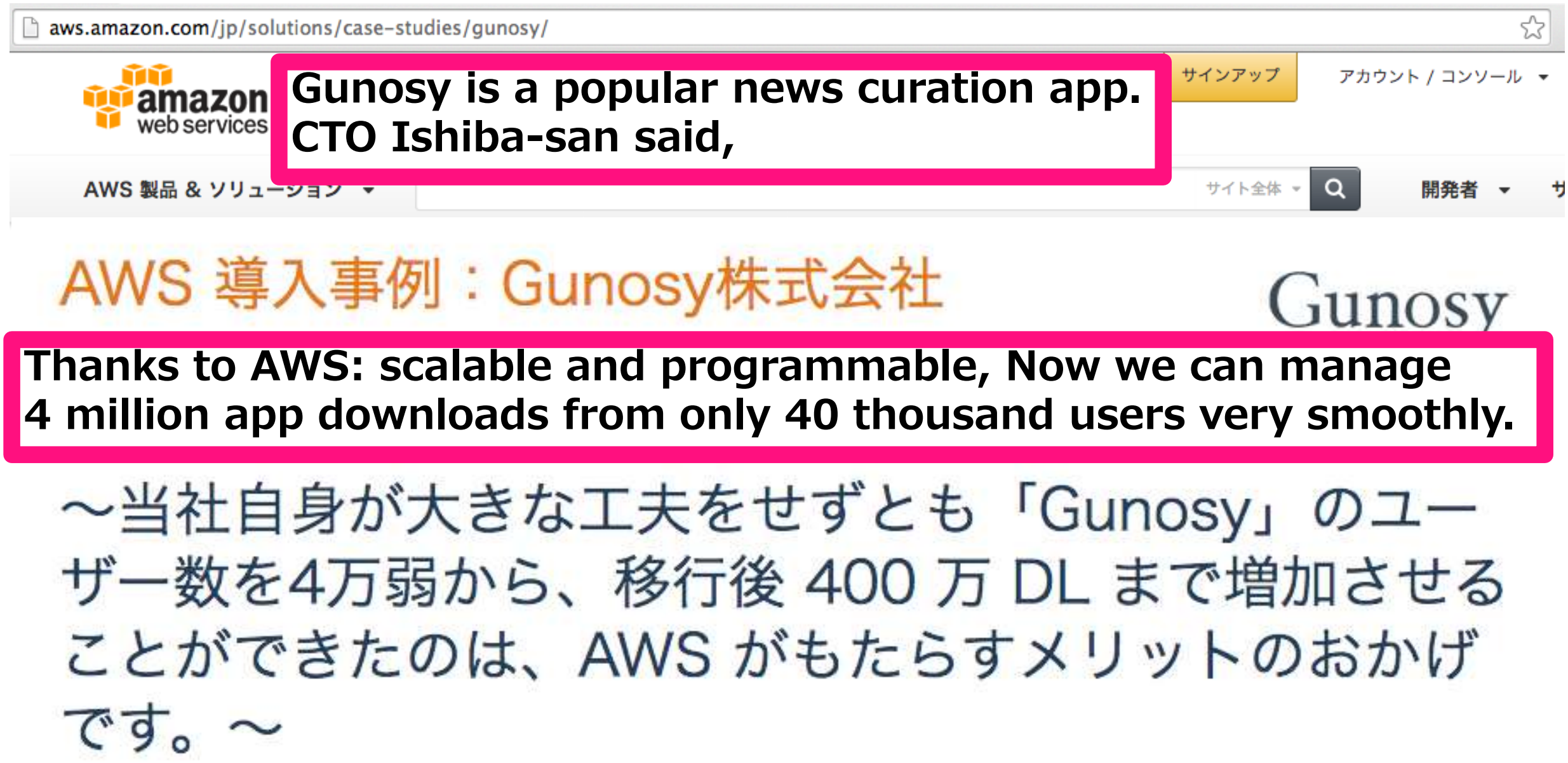
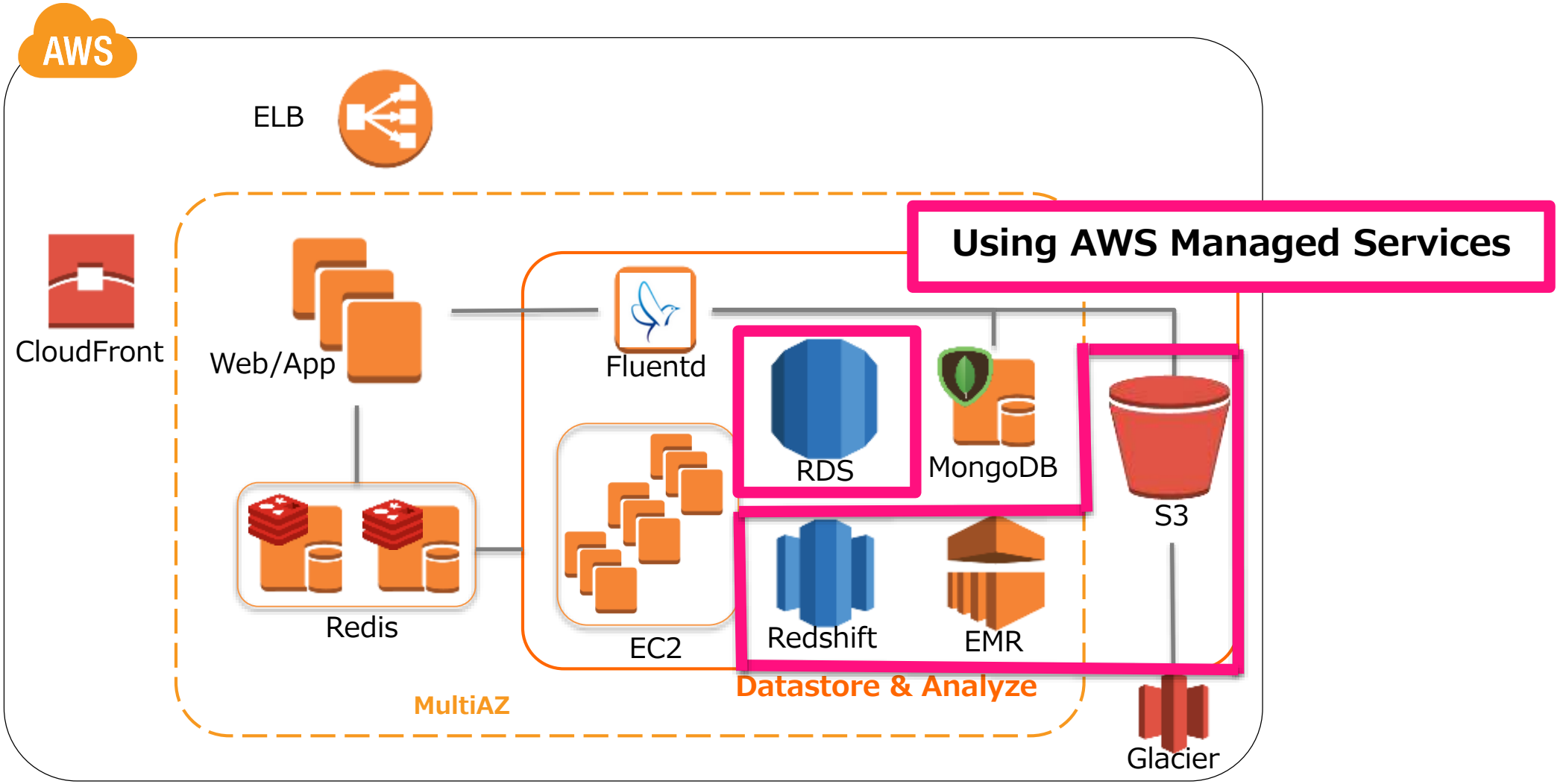


Gunosy is a popular news curation app.
CTO Ishiba-san said,

Thanks to AWS: scalable and programmable, Now we can manage 4 million app downloads from only 40 thousand users very smoothly.

http://aws.amazon.com/jp/solutions/case-studies/gunosy/

Gunosy architecture



Wrap up

- Surefire Architecture
  - Stable and Scalable
  - Suitable for booming Startup IT infra
- Beat “Bursty Traffic”
  - Take advantage of the chance
  - No need to take a lot of time and money
- Startup Pragmatic use-cases
  - Utilizing AWS full managed services!
- AWS has bunch of use-cases and knowledge!

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AWS Black Belt Tech Webinar

- Every Wed 6PM – 7PM(JST) Online Seminar in Japanese

AWS Solutions Architect ブログ

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RSS FEED

このブログを購読

最近の記事

- Amazon Kinesisシリーズ(2) Kinesis Client Libraryを使ってKinesis Applicationを作ってみよう
- 2014年11月のAWS Black Belt Tech Webinarのご案内
- Google Authenticator を使って Amazon WorkSpaces に多要素認証ログイン
- 2014年10月のAWS Black Belt Tech Webinarのご案内
- Kinesisシリーズ(1) Amazon Kinesis とエコシステム

« Google Authenticator を使って Amazon WorkSpaces に多要素認証ログイン | メイン | Amazon Kinesisシリーズ(2) Kinesis Client Libraryを使ってKinesis Applicationを作ってみよう »

2014年11月のAWS Black Belt Tech Webinarのご案内

いいね！ 42 ツイート 10 B! 2 g+1 1 イイネ！ 1

AWSソリューションアーキテクトの篠原英治(@shinodogg)です。

毎週水曜日18時から でお届けします！

- 11月5日(水)
  - AWS
  - セミ
  - セミ
- 11月12日(
  - AWS
- 11月19日(水)
  - AWS re:Invent 2014 最新情報のアップデート - 片山 暁雄(@c9katayama)

w/ Adobe Connect

に、AWS Trusted Advisorを使うことで、
ストプラクティスをお知らせしてくれます。

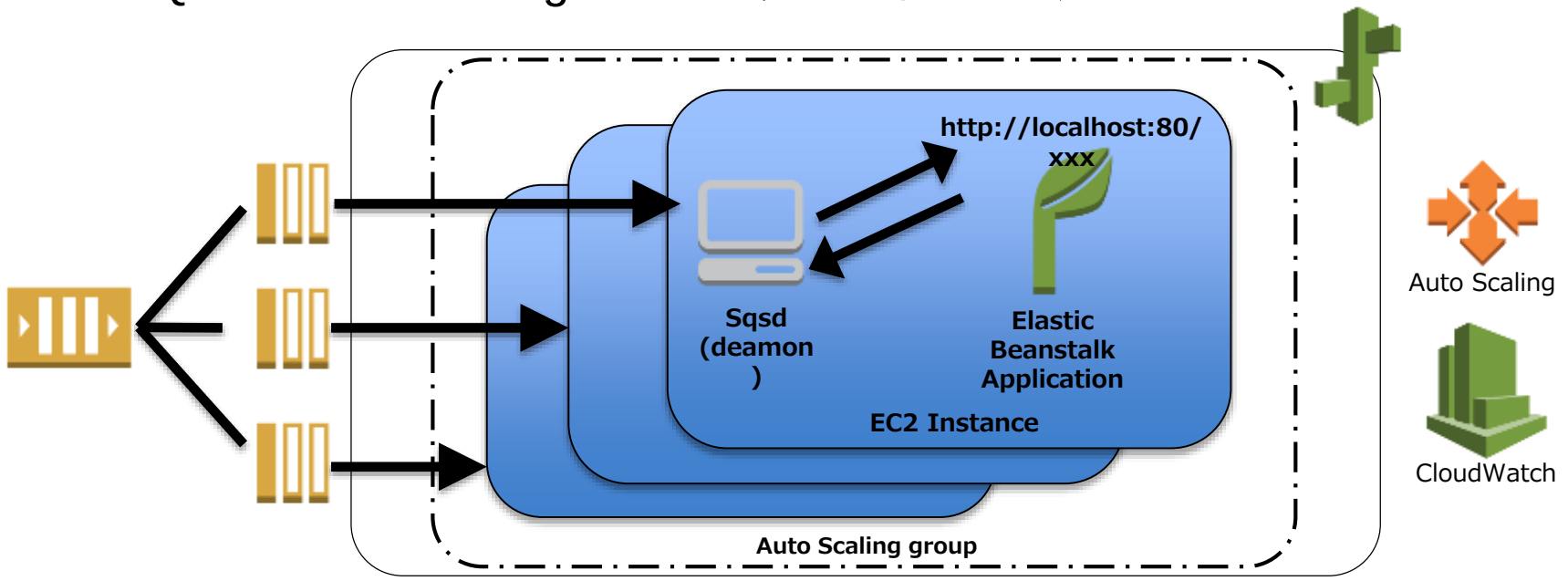
http://aws.typepad.com/sajp/

AWS Black Belt Tech Webinar

- Deep dive product-cut seminar by Solution Architect

Amazon Simple Queue Service (SQS)

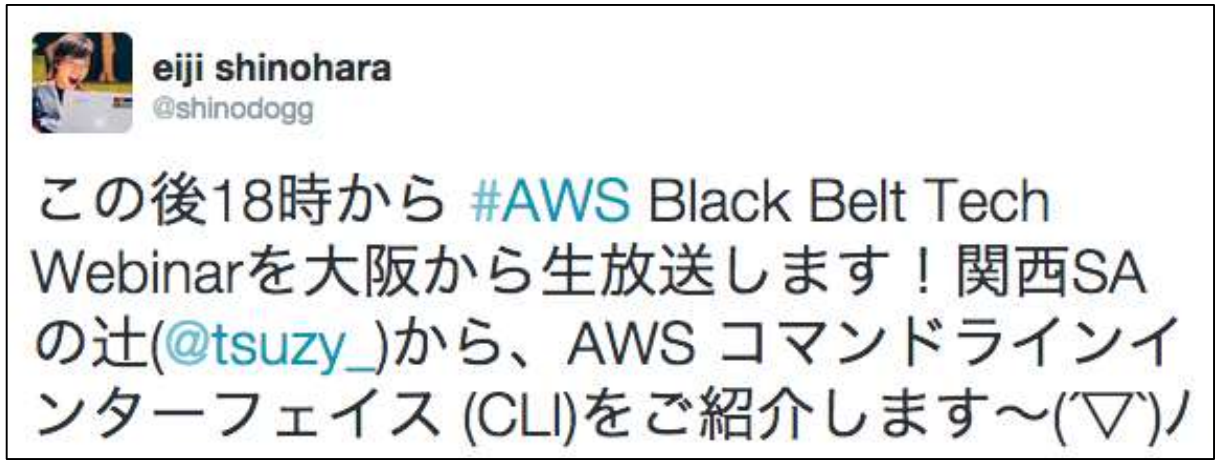
- AWS Elastic Beanstalk: Worker Tier
  - SQS ＋ Auto Scalingでスケーラブルなバッチ処理基盤

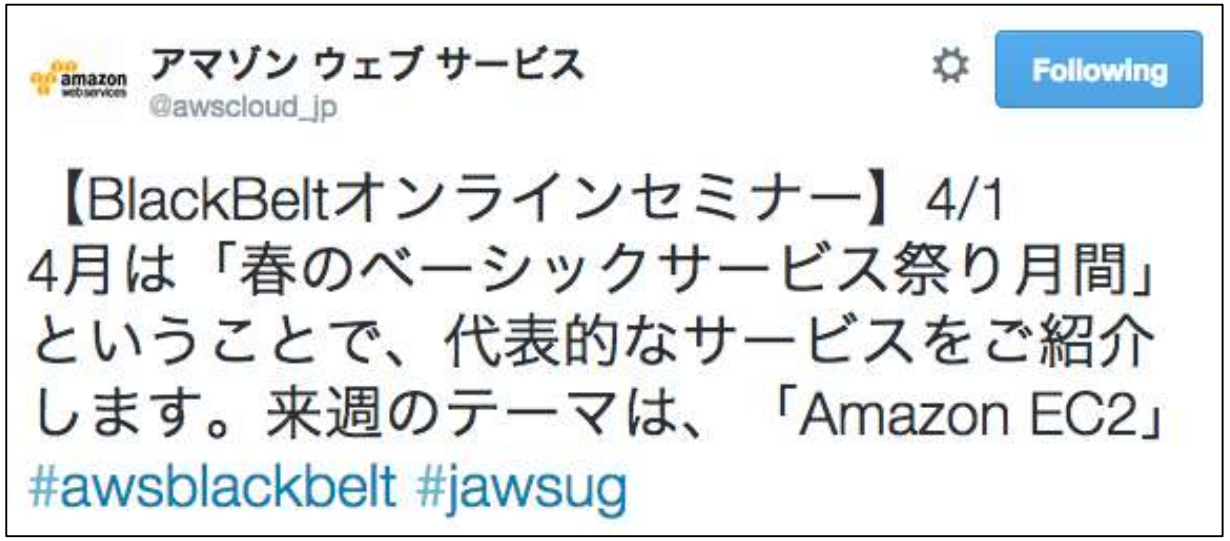


http://aws.typepad.com/sajp/

AWS Black Belt Tech Webinar

#awsblackbelt





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AWS Tokyo Region 4 Years Anniversary

Thank you!!