

Taming AWS with ZF



The PHP Company

Copyright © 2007, Zend Technologies, Inc.

THE CLOUD



The PHP Company

Copyright © 2007, Zend Technologies Inc.

Cloud Services

Typically, 'the cloud' refers to web services that fall into one of the following categories:

- **Software as a Service (SaaS)**
- **Platform as a Service (PaaS)**
- **Infrastructure as a Service (IaaS)**

PHP in the Cloud

Some PHP PaaS offerings, such as Facebook applications and SugarCRM modules, may interest PHP'ers, but IaaS offerings can be used to create practically anything you can dream up.

PHP in the Cloud

- . . .and scale with practically any user load you can dream of!**

Infrastructure as a Service

IaaS services include:

- **Elastic Cloud Computing**
- **File Storage**
- **Table Storage**
- **Queue Service**
- **MapReduce Service**
- ...

IaaS Pros

- **Built-in Scalability**
- **High Availability**
- **Standardization of Applications across an Organization**
- **Lower CapEx**
- **Better Application Architecture**
- **Security**

IaaS Cons

- **Lock-in**
- **Higher OpEx**
- **Greater TCO over the long term**
- **Security (!)**

Amazon Web Services

Amazon has a full set of IaaS offerings:

- **EC2 (Elastic Cloud Computing)**
- **S3 (File Storage)**
- **SimpleDB (Table Storage)**
- **Simple Queue Service (Queue Service)**
- **MapReduce (MapReduce Service)**
- **CloudFront**
- **... A bunch of additional services, such as Mechanical Turk, etc.**

AWS IN ZF



The PHP Company

Copyright © 2007, Zend Technologies, Inc.

Is AWS an emergent standard?

- **AWS was the first to bring many of these services to market, and they have been emulated by many vendors.**
- **Open source projects such as Eucalyptus and AppScale can be used to create hybrid clouds with the AWS APIs.**
- **ZF supports AWS.**

So . . . probably. 😊

EC2 IN ZF



The PHP Company

Copyright © 2007, Zend Technologies Inc.

EC2 Key Concepts

- **Instance**
- **Image (AMI)**
- **Key Pair**
- **Security Group**
- **Volume**
- **Snapshot**
- **Bundle**
- **Reserved Instance**
- **Product Instance**
- **Availability Zone**
- **Region**

Zend_Service_Amazon_Ec2 API

Let's take a look at the Ec2 Query API. . .

Zend_Service_Amazon_Ec2 API

...and now the **Zend_Service_Amazon_Ec2** API...

Zend_Service_Amazon_Ec2 API

...and finally the **Zend_Service_Amazon_Ec2** API in use.

Moral of the Story

Zend_Service_Amazon_Ec2 is an object-oriented API that will fit easily in to your application.

S3 IN ZF



The PHP Company

Copyright © 2007, Zend Technologies, Inc.

S3 Key Concepts

- **Bucket**
- **Object**
- **Payments**

S3 API

Let's take a look at the S3 REST API. . .

Zend_Service_Amazon_S3 API

...and now the **Zend_Service_Amazon_S3** API...

Zend_Service_Amazon_S3 API

...and finally the **Zend_Service_Amazon_S3** API in use.

Moral of the Story

Zend_Service_Amazon_S3 is a service-oriented API that models the Amazon API more closely- and will also easily fit in to your application!

In Summary

Amazon Web Services are cool, and Zend Framework continues to rock the Cloud!



THE END



The PHP Company

Copyright © 2007, Zend Technologies, Inc.