Amazon
A pioneer in deploying cloud solutions

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Outline

- Amazon Web Services (http://aws.amazon.com)

Amazon Web Services (AWS)

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Amazon.com is the World's largest Cloud provider and online retailer

AWS are a set of business models and APIs which give access to Amazon's cloud offerings and content, including:

- Amazon Elastic Compute Cloud (EC2)
- Amazon Simple Storage Service (S3)
- Amazon Simple Queue Service (SQS)
- Amazon Elastic MapReduce
- Amazon SimpleDB
- Amazon Relational Database Service (RDS)
- Amazon CloudFront
- Amazon DevPay
- Amazon Mechanical Turk
- ....

Amazon's EC2

- Amazon EC2 provides resizable compute capacity in the cloud. The user defines the virtual Amazon EC2 environment with the OS, services, databases, and application platform stack required for the application
  - Existing pre-configured, template images
  - Create your own Amazon Machine Image (AMI) containing your applications, libraries, data, and associated configuration settings, including security and network access
  - Variety of instance types, multiple locations, management tools and API services provided
  - Persistent storage

http://aws.amazon.com/free

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Amazon's EC2 - Services

- Instance, instance types
- Preconfigured templates (Amazon Machine Images)
- Key pairs
- Instance store volumes
- Elastic Block Store (EBS) volumes
- Availability Zones (e.g. eu-west-1)
- Firewall
- Elastic IP address
- Virtual Private Cloud (VPCs)

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Amazon's EC2 – Getting Start

- Sign up
- Access Amazon EC2 console
- Create a Key Pair
- Set Security group
- Create an instance
- Launching, connecting and using an instance.

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Amazon's EC2 - CLI

EC2 command line tool*

*http://docs.amazonwebservices.com/AWSEC2/latest/UserGuide/setting-up-your-tools.html#api-vs-ami-tools