Drupal on Amazon EC2 Cloud t1.micro instance

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AWS Cloud Computing

- EC2 >> For virtual computers/servers
  - Why?
    - On demand computing
    - Autoscaling & load balancing for demand spike
    - Automation of repetitive tasks
    - Pay only for what you use
- Bundles with S3 >> Storage

AWS Management Console

- Central location to all your aws cloud apps
- EC2
- Beanstalk
- S3
- RDS
- …

Instance Types by demand

- On demand
- Reserved
- Spot

Instance types by configuration

- T1.micro (2 CU's, 613 MB, variable EBS storage)
- M1.small (1 CU, 1.7GB, 160 GB Block storage)
- M1.large …
- M1.xlarge …
- M2.xlarge …
- M2.2xlarge …
- M2.4xlarge …
- C1.medium …
- C1.xlarge …
- Cluster, Cluster GPU …

Pricing

- 1 YR FREE T1.MICRO ALL INCLUDED
- T1.micro spot instance as less as $5/mo*
- M2.4xlarge as much as $1440/mo*

- $.10 data in
- Tiered out
- Data transfer within same zone = $0 (v imp in selecting which zone to bring up multiple if there will be data passing between them)

*Not counting the bandwidth & storage if ebs backed vol

Demo Specs

- Ubuntu 10.10 Alestic.com/Canonical AMI
- Spot t1.micro instance
- Drawbacks of spot – shut off without advance notice – if the spot price goes higher or just coz
- Install Apache, mysql, php, curl, phpMyAdmin
- Install Drupal >> Demo
- Public IP/DNS of the instance
- Create EBS backed AMI from AWS MC
- Fire it up without shutting down the original server

Possible enhancements

- Connect to RDS instead of local mysql
    - Advantages: Mysql on demand/reserved
    - No DBA required
    - Auto tuned and auto scale > read replicas & write masters
    - Scale up to a higher instance type quickly to accommodate a spike if you get digg'd