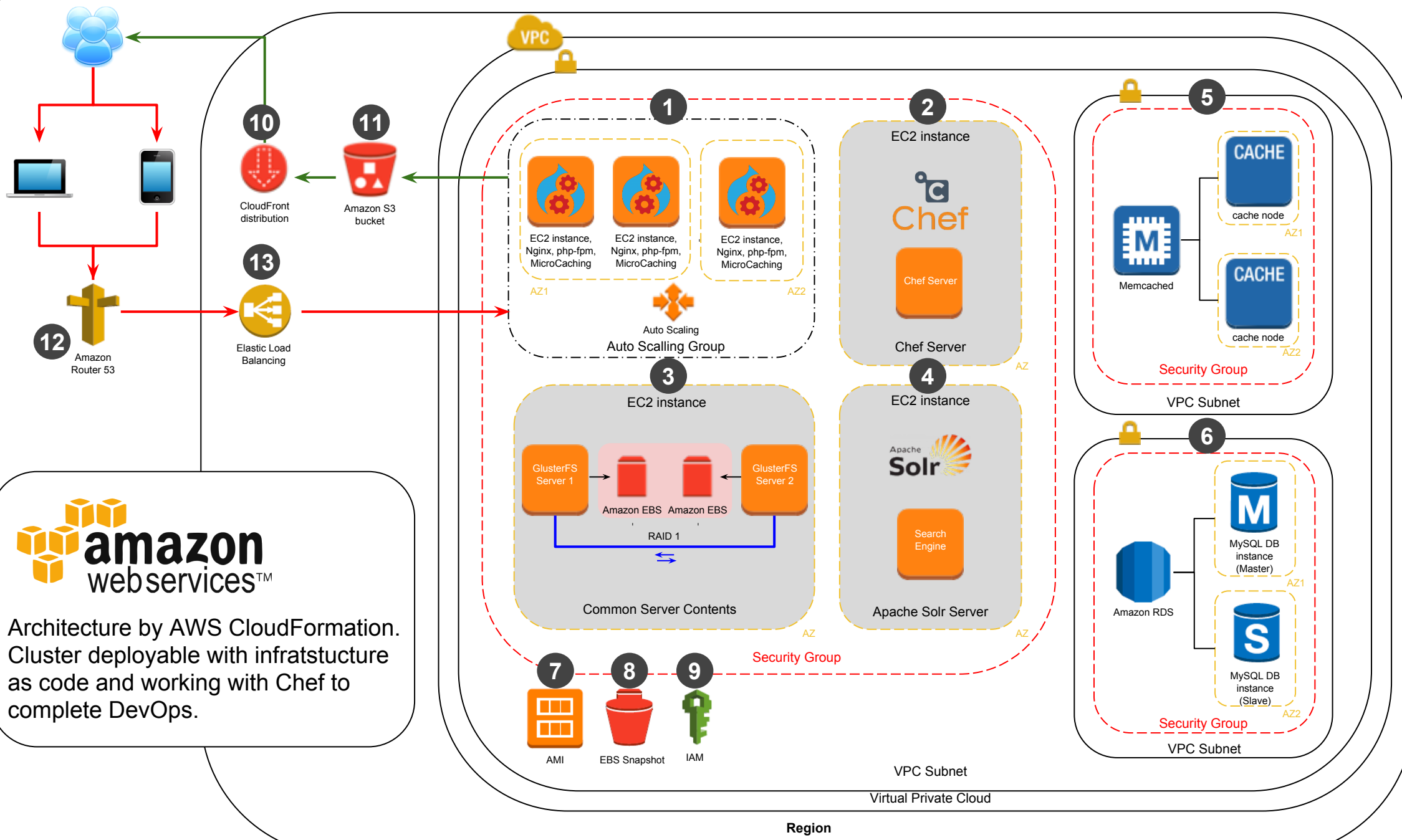


BootDev Recommend Plan Datasheet

VPC Isolated Environment



Architecture by AWS CloudFormation. Cluster deployable with infrastructure as code and working with Chef to complete DevOps.



Services intergate by DruCloud



Services intergate by Chef



- 1 Nginx web server with microcaching integration**
 1. Nginx make use of php-fpm with APC(Alternative PHP Cache) to optimize the performance
 2. Microcache is to be stored on physical memeory
- php-fpm (reside in the web server)**
 1. Drupal 7 / Drupal 8 supported
 2. APC / Opcache supported
 3. Drupal custom module require to connect with Marketo for marketing purpose
 4. Drupal custom module require to perform in-site search through SOLR
- Auto scaling**
 1. Scaling the web service architecture capacity up or down automatically according to server load
 2. Auto-recovery/Fault tolerance git + Chef + Cloudformation
 3. Auto load balacing to distribute loading
- 2 Chef Server**
 1. DevOps management of package dependencies / runtime management
 2. SSH remote access and central management
- 3 Gluster File System as web storage**
 1. Using GlusterFS by 2xEC2 for file sharing between nginx cluster nodes
 2. Other than traditional NFS, GFS integrate better with AWS and Drupal
 3. SSD based file storage
- 4 Apache Solr Search**
 1. Intergrating Drupal ApacheSolr module, considerable to integrate with SOLR for high demand search
 2. Integrable with Drupal for secure search
- 5 AWS elasticache**
 1. Memcached service that communicate with Drupal memcache module
 2. Reduce MySQL loading by replacing MySQL cache tables
 3. Optimizing performance of Drupal
 4. Redis is an alternative by demand
- 6 AWS RDS for Drupal Database**
 1. MySQL read replica (Master/Slave) (2 servers)
 2. MySQL Multi-AZ (High Availability)
- 7 Amazon AMI**

Create restorable backup of a whole running instance
- 8 EBS Snapshot**

Create backup of root file system
- 9 Amazon IAM**

User Management
- 10 Amazon CloudFront (CDN)**
 1. Distribute static content to end users with low latency, high data transfer speeds, without minimum usage commitments.
 2. Possible to distribute dynamic content to worldwide at real time
- 11 Amazon S3 bucket**
 1. cross region cloud storage
 2. CDN origin support CORS
 3. With Drupal AmazonS3 modules, support images styles -> S3 -> CDN
 4. Higher speed, lower traffic expense
- 12 Amazon Router 53**

DNS Server
- 13 Elastic Load Balancing**
 1. System monitoring is performed by AWS Cloudwatch, which triggeres scaling to take place
 2. Recover instances with system failure
 3. Load balancing of network traffic

Recommended Package is good for a middle size website, supports 3-10MPV per month. it is recommended to build your website according to AWS's best practice of web application hosting.

This architecture can fully support 5000 concurrent users at peak by Google analytic.

Estimated Charge per month:






+ Amazon EC2 Service (US-East)	\$	451.21
+ Amazon S3 Service (US-East)	\$	15.00
+ Amazon Route 53 Service	\$	0.50
+ Amazon CloudFront Service	\$	125.00
+ Amazon RDS Service (US-East)	\$	295.84
+ Amazon ElastiCache Service (US-East)	\$	131.76
+ AWS Support (Basic)	\$	0.00
Total Monthly Payment:	\$	1019.31

The charges is only estimated for the AWS architecture cost, the network traffic cost is on demand. And the calculation is based on region: US Standard (Virginia)

For the pricing on AWS, you may visit AWS calculator:

<http://calculator.s3.amazonaws.com/index.html#r=IAD&key=calc-EBBB7DCA-1566-4AFE-AC36-C002DC4C7508>

Appendix

-  Auto Scaling Group
-  Availability Zone
-  Security Group
-  VPC Subnet
-  Virtual Private Cloud



Architecture Presented by BootDev