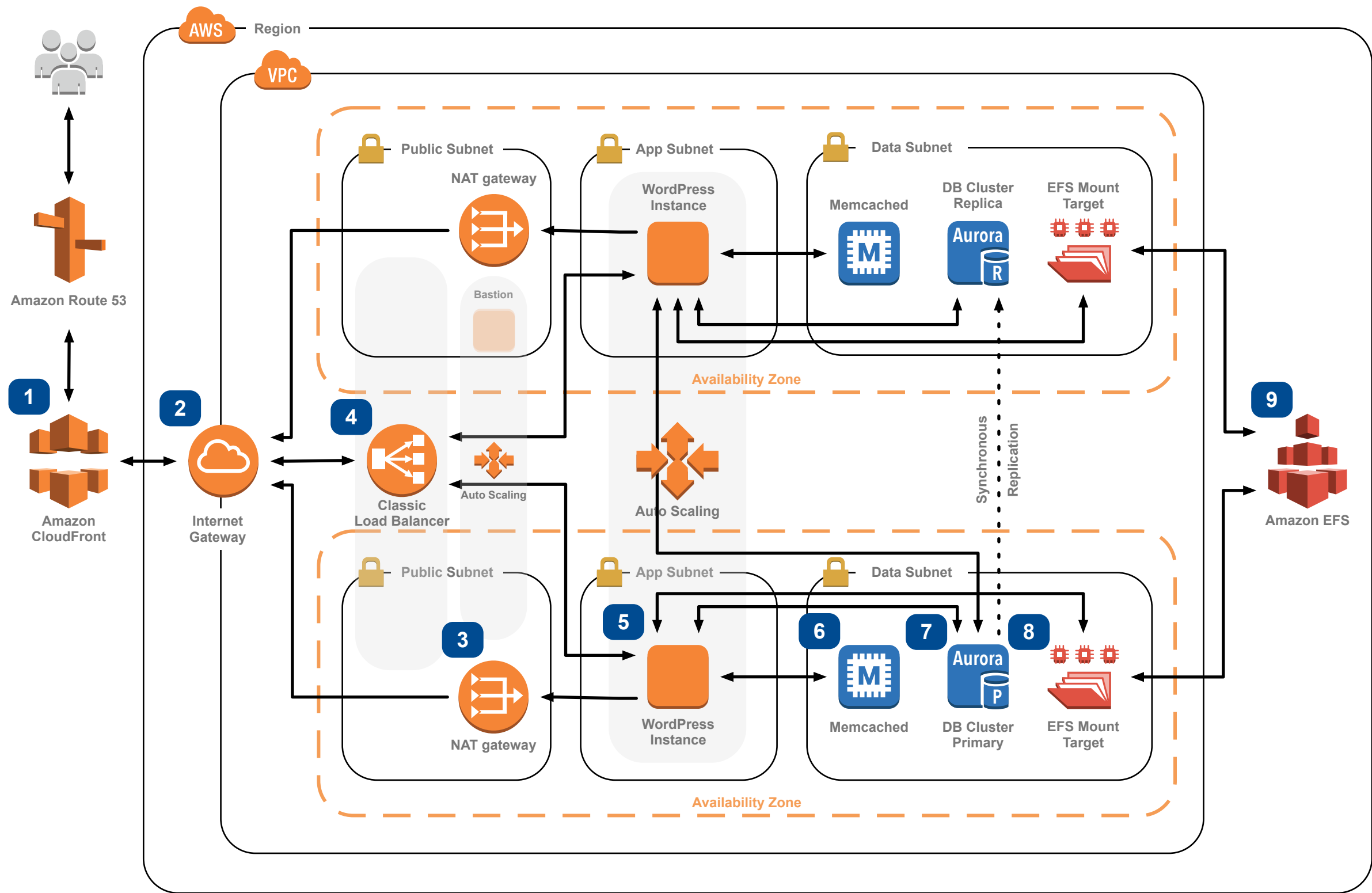# WordPress Hosting
How to run WordPress on AWS

WordPress is one of the world's most popular web publishing platforms on the Internet, with 27% of all websites, from personal blogs to some of the biggest news sites. This reference architecture simplifies the complexity of deploying a scalable and highly available WordPress site on AWS.

1 Static and dynamic content is delivered by **Amazon CloudFront**.

2 An **Internet Gateway** allows communication between instances in your VPC and the Internet.

3 AWS managed highly available multi-AZ **NAT Gateway** service enables instances in private subnets to access the Internet.

4 Use a **Classic Load Balancer** to distribute web traffic across an Auto Scaling Group of Amazon EC2 instances in multiple Availability Zones.

5 Run your WordPress site using an **Auto Scaling Group (ASG)** of **Amazon EC2** instances. Install the latest versions of WordPress, Apache web server, PHP 7, and OPcache and build an Amazon Machine Image that will be used by the ASG Launch Configuration to launch new instances in the ASG.

6 If database access patterns are read-heavy, consider using a WordPress plugin that takes advantage of a caching layer like **Amazon ElastiCache** (**Memcached**) in front of the database layer to cache frequently accessed data.

7 Simplify your database administration by running your database layer in **Amazon RDS**, using either Aurora or MySQL.

8 Instances access shared WordPress data in an Amazon EFS file system using **Mount Targets** in each AZ in your VPC.

9 Use **Amazon EFS**, a simple, highly available and scalable network file system so WordPress instances have access to your shared unstructured WordPress data like php files, config, themes, plugins, etc.

AWS Reference Architectures