

Networking Services

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What is a Virtual Private Cloud (VPC)?

Simplified Definition:

A private sub-section of AWS that you control, in which you can place AWS resources (such as EC2 instances and databases). You have FULL control over who has access to the AWS resources that you place inside your VPC.

AWS Definition:

"Amazon Virtual Private Cloud (Amazon VPC) lets you provision a logically isolated section of the Amazon Web Services (AWS) cloud where you can launch AWS resources in a *virtual network* that you define. You have complete control over your virtual networking environment, including selection of your own IP address range, creation of *subnets* and configuration of *route tables* and *network gateways*."

NOTE: When you create an AWS account, a "default" VPC is created for you.

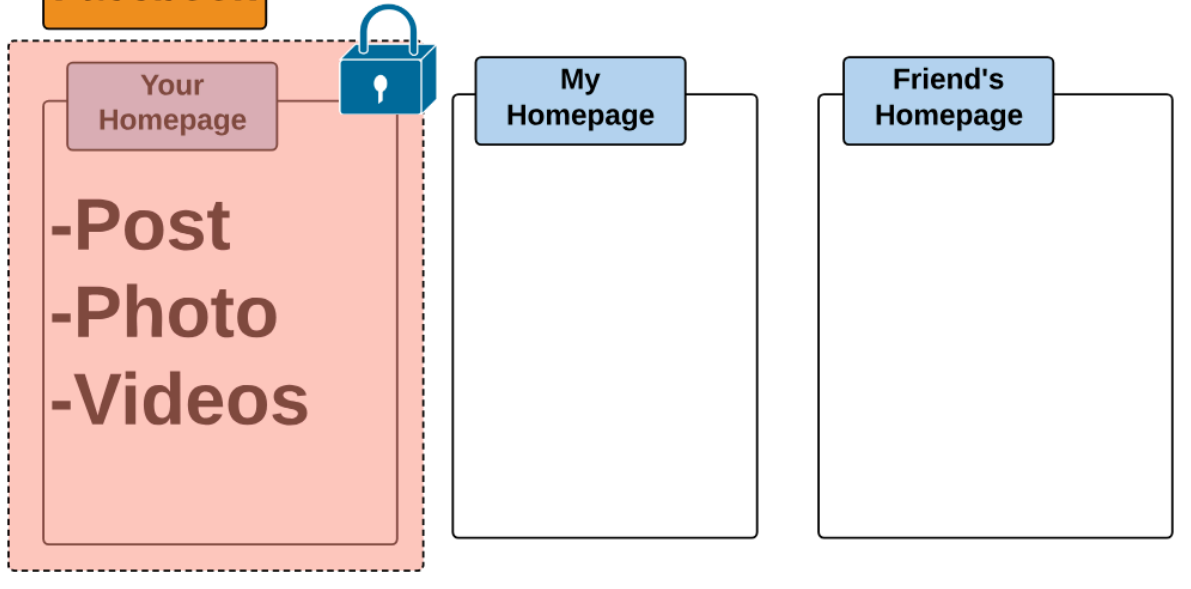


AWS VPC

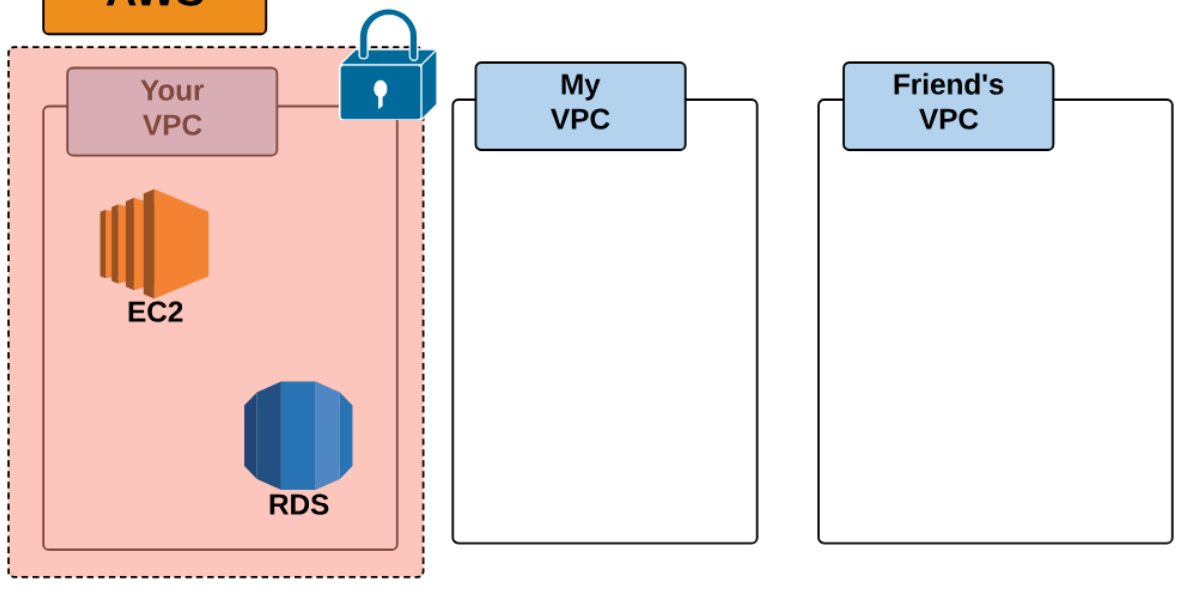
VPC Basics:

Facebook/VPC Analogy

Facebook



AWS



Networking Security:

Network Access Control Lists (ACL):

A firewall/security layer on the subnet level.

Security Group (SG):

A firewall/security layer on the instance/server level.

What is a Firewall?

A firewall is a type of software that either allows or blocks certain kinds of Internet traffic to pass through it.

For example, if the ACL and SG are configured to allow HTTP traffic, then HTTP request will be allowed into the subnet, then into the EC2 instance. If they are configured to deny FTP traffic, then any FTP request will be blocked.

