

Office Hours 11/7

Monday, November 7, 2022 7:55 PM

Cloud architecture diagram

Answer these questions:

Do we need load balancer

Different types of instances

Other services

- **MINIMUM**

- VPC

- Security group

- Network group

- EC2 instance and whatever datastore we have

- How many EC2 instances do we want to create?

- In budget is 1

- Typically only want 1 data store to stay in budget for data store

- Whatever else you need for 3rd-party integration
- Creating a VPC is a private network
- We need an AWS internet gateway to have access to the internet
 - Will help define the incoming and outbound connections
- Firewall service is only free for a month, how do we deal with that?
 - We are demoing, so we're just creating the instance for the final project
 - Everything else is our own version of it
- Security group and network group act as firewalls, WAF really only protects against DDOS attacks
- No point to having a network topology since we don't control the infrastructure
- Data store max character limit:
 - NIST standards for passwords -> minimum of 12 but no max
 - > Critical government standards are 80-100 minimum
 - > 8 spaces would be technically valid
 - > special characters increase complexity
 - Depends on datastore, if its relational then a valid

password should not have a \$, sometimes don't allow -,
sometimes don't allow } or <>

- California limits age to 14, we believe whatever they say
- Manager layer is not a manager for each feature, it's a central manager?
 - Intention is that a layer is not equal to an object
 - Can have multiple objects within each layer
 - Typically a good manager follows a bounded context
 - Manager isn't very granular, there will be redundant code with many different managers
- HTTP request is technology and application specific
 - Dealt with by the entry point layer
- Typically the column headers are the same as the properties, follows pascal but can make it underscore (usually in bad databases)
 - Depends on the version and type of database
 - Pascal and nothing longer than 32 characters
- Harder to make a unit test???