Stateful Web App: MyClothes

* Shopping cart data is lost
  + ELB Stickiness
    - In case of instance failure, everything is lost
    - Adds imbalance to the ASG
  + Cookies
    - Cookies can be altered
      * Cookies must be validated
    - Maximum 4KB
    - HTTP requests get heavier with more items in session
  + Server session in Elastic Cache
    - Session ID in request
      * Every instance retrieves info in Elastic Cache in sub-millisecond response time
  + User data in database
  + Same as Elastic Cache but with RDS
* Scaling Reads because app is mostly reads
  + RDS master
  + RDS replicas
  + Write Through with Elastic Cache and RDS
    - Cache invalidation logic in app side
* MultiAZ
  + Multi-AZ Elastic Cache, ELB, RDS and ASG
  + Route 53 is already high available
* Security Groups
  + Open HTTP and HTTPS to 0.0.0.0/0 to ELB
  + Restrict traffic from ELB to EC2
  + Restrict traffic from EC2 to RDS and Elastic Cache

