## EC2 - Placement Groups

- It is recommended that you launch the number of instances that you need in the
  placement group in a single launch request and that you use the same instance type for
  all instances in the placement group.
- If you try to add more instances to the placement group later, or if you try to launch more than one instance type in the placement group, you increase your chances of getting an insufficient capacity error.
- If you stop an instance in a placement group and then start it again, it still runs in the placement group. However, the start fails if there isn't enough capacity for the instance.
- If you receive a capacity error when launching an instance in a placement group that already has running instances, stop and start all of the instances in the placement group, and try the launch again.
- Restarting the instances may migrate them to hardware that has capacity for all the requested instances.

## **References:**

https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/placement-groups.html#placement-groups-cluster

http://docs.amazonaws.cn/en\_us/AWSEC2/latest/UserGuide/troubleshooting-launch.html#troubleshooting-launch-capacity

## Check out this Amazon EC2 Cheat Sheet:

https://tutorialsdojo.com/aws-cheat-sheet-amazon-elastic-compute-cloud-amazon-ec2/