**Microservices Assignment - #1   
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**Q1.What is microservices?**

**Answer:-**Microservices is a type of design pattern or architectural style that allows an application as a collection small loosely coupled autonomous services which modeled around business logic.

**2) Challenges with monolithic oriented architecture**

**Answer:-**Following are the challenges of monolithic oriented architecture :-

1. The main challenge with monolithic architecture that is tightly coupled and more interdependent which creates problem while deployment onto server after making some client requested changes.
2. The second main challenge is of scalability monolithic architecture doesn’t support high scalability which makes application obsolete and challenging task to scale up in long time.
3. Usually monolithic oriented architecture application is difficult to understand for new on board developers because it is very challenging task to the code which someone has written a long time ago.
4. Deploying is difficult or challenging task for developers because it requires recreating and redeploying the entire application even for a small change.
5. Monolithic oriented architecture uses only a single stack applications which is not good for integrating with other application. It cannot easily integrate.

**3) Any three advantage and disadvantage of microservices**

**Answer:-** Following are the advantages and disadvantages of microservices

**Advantages :-**

1. Better scalability
2. Faster development and deployment.
3. Better fault tolerance because loosely coupled .

**Disadvantages:-**

1. Needs more load balancing
2. Poorer performance due to network latency and message processing
3. Testing is difficult.