① Eureka server ~~has~~ is a service which acts as a registry and ~~acts as a th~~ for each and every microservice.

② Rest API ~~to~~ is used by microservices to communicate with each other. If the microservices are deployed on cloud then their port numbers on which they are deployed is dynamic and changes with time. We cannot hard code these port numbers. There can be a scenario in which you are not able to discover the microservice. For solving this problem, we have the eureka server. This acts a registry for the dynamically changing IP address and port number of the different microservices. Eureka server is also called the discovery service which helps us to discover the different microservices in our application. We need not hard code the URLs and port numbers.

③ The task of API gateway is to route based upon the requirement. The frontend is not supposed to know which microservice is being called in the backend. The task of implementing the security is given to the API gateway.

④ Sharing of code and data is not allowed in microservices architecture but is encouraged in service oriented architecture.

SOA → share as much as possible. MS → share as little as possible → de coupling.