Differences between SOA and Microservices

1. SOA: Aims at sharing as much information as possible (e.g. HATEOS), where as Microservices aims at providing as less information as possible.
2. SOA requires a middleware for communication, where as Microservice communicate via REST APIs
3. Middlewares implemented
4. 1. X-FORWARDED-FOR (who the real caller is)
5. 2. Http CorrelationId
6. 3. TimeMonitoringFilter
7. 4. UnhandlerExceptionFilter
8. 5. TranslateExceptionFilter
9. Api to api call: is it right to do in micro services ? No it’s not recommended (where as clients like UI - who do not own either data or logic, can certainly do this).
10. In such cases reads can be made synchronous and writes can be made asynchronous (message processing via queues)
11. What’s domain in micro services?
12. Service mesh ?
13. What is the diff between parallel, threading and async programming ?
14. Advantage of tasks over threads is like this. The threads will get created for the same CPU core till it reaches the capacity, where as the tasks will get created evenly on all the available CPU cores
15. Of the machine. This way tasks and then execution will get evenly distributed on the multiple available cores of the machine. Better distribution of the load.
16. What is work stealing algorithm ?
17. <https://blogs.msdn.microsoft.com/jennifer/2009/06/26/work-stealing-in-net-4-0/>