

UiO / IFI / PUT
Autumn 2025
Questions on Introduction to Fog Computing

1. There are 3 main aspects to consider when deciding to use Fog Computing. What are these? For each one explain the reason why and provide an example.
2. What does it mean “geographically dispersed”?
3. What cloud services exist?
4. Explain what is the notion underlying IaaS / PaaS / SaaS ?
5. Provide an example illustrating the notions of IaaS / PaaS / SaaS ?
6. What is the notion of “cloud resource provisioning”?
7. What is the notion of “pay-as-you-go” payment scheme?
8. There are four types of cloud deployments. Say which one are these.
9. What is a private/community/public/hybrid cloud?
10. Regarding practical use cases, what seems to be the most important reasons for having fog software running?
11. Regarding practical use cases, give two examples of such cases.
12. What is the concept of Mobile Computing?
13. What is the concept of Mobile Cloud Computing?
14. Complete the next sentence: “An ad hoc mobile network consists of nodes that:”.
15. In your opinion, MANET and MACC are similar concepts? Say what are the concepts of each one.
16. What is the concept of Edge Computing?
17. What are the most relevant differences between FC and EC/MACC/MC/etc?

18. Say if you agree with the following sentence: "The term edge used by the telecommunications industry usually refers to 4G/5G base stations, RANs, and ISP (Internet Service Provider) access/edge networks".
19. Say if you agree with the following sentence: "The edge is the immediate first hop from the IoT devices (not the IoT nodes themselves), such as the WiFi access points or gateways."
20. Say if you agree with the following sentence: "If the computation is done on IoT devices themselves, this computing paradigm is referred to as mist computing".
21. What is the notion of Cloudlet?
22. Do you think that Network infrastructure owners (e.g., AT&T, Nokia, etc.) could enable cloudlets with virtualization capacity to be situated closer to mobile devices.
23. Regarding the features of the several paradigms say how you compare CC/MC/FC/EC/MCC/MACC/MEC/cC/mist regarding Heterogeneity/Infrastructure/etc..