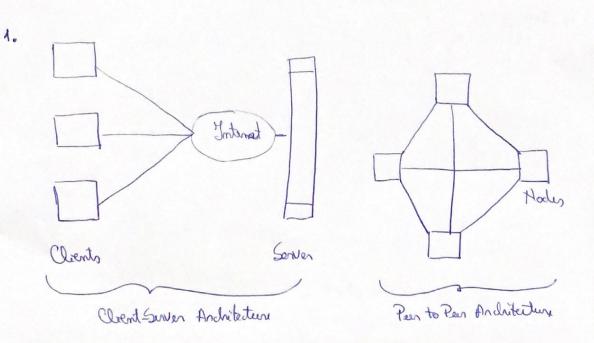
## Examen PCD - 24.05.2021

(29) 1. P27 vs Client 1 Server

18/12. Explicati conceptul de Maintainability. Identificati al pertin douc aspecte con fin de aust concept. Specificati cum pot acusto influenta

(3p) 3. Proiectati a arbitecture pentre un sistem car se contribui la caracteriste. ca de smart-city a unui cras. Specificati al pulin 3 moderni in care solute propusa apelegio la le Andaji cloud si ce caracteristicale sistemului sund asigurate de acestra.



As now can observe in the figures above, in the case of Cloud-Server architecture the modes are differentiated, there are some modes reliched one plints and one mode reliched in the server. In contrast with this, in the Peer-to-Peer architecture a mode can have both roles, client and server, and can request or repord to services.

Cleent-Server Hetwork focuses on information drawing, so that each cleent Cleent-Server Hetwork focuses on information as quick as possible. Will get its information the right information as quick as possible. In the other brand, Peer to Peer Hetworks is focused on commentarity, as we can see above all modes are interconnected.

In the client bever architecture the reven is used as the archael mode that there all the data. In segands to the storing problem, in Pair to Pen architecture each made has its own data.

In the case of client bever model, a Client requests o revuice and a Server come with a support few it. In the Pen to Pen model, any of the modes can perform both apprations, seguest and supports.

Client bever indutecture is more stable than Pen to Pen architecture, even more when the number of modes from Pen to Pen metricite increases. This is the mason value Rento-Pen model is used more suitable for small netruors, value Client Server architecture can be used for both, amade a longe, metruoriss.

I Maintainability is the oligne of facility with which an equipment or system is capable of being relained in, or restored, to, serviceable operation. It riffers to the amount of removablead meeded to brave a specific service up and recovering again. There are more types of maintainability: corrective (includes detection and correction of faults or bugs identified by the team or by users), adaptive (includes the changes to the softwar mode in order to been it compatible with the changing softwar environments, brandware & software), perfective (includes the improvements added to the system functionality) and presentive (includes toolsling potential issues).

· the ability to modify the code (things are tightly or loosely coupled)

· the ability to test the product (how much of the application is kested)

· the dutity to understand the code and to have less technical-depth

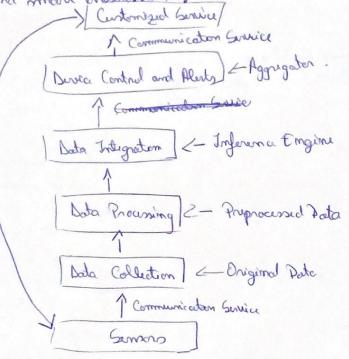
· how eary is to say adat the application is supposed to do and conelect it to how it is being done, related to the written cool.

The adoption of a cloud based softwar solution can be influenced, faitly, by the way in which the cool can be analytized an reviewed by the bann mentsers. Also, cloud tooks offer metrics that indicate the amount of technical depth, and deplication, unit ripe, complexity, coupling and other metrics that, if talen into account, som improve the coole quality and the maintainability of the firmal softwar application,

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Also, a cloud rotation could make it easier for team members to collaborate and show code qualdy quidelines so that the code will be understood by new collegues.

3. A smart sty should brown among its components smart buildings, smart transportation system, smart builth, swart administration and mart evidenment.



In this architecture the surrors will collect all the date from the environment. This date, supresented by pressur, temperature, will follow a processing phase which will bear as a result a resource description ferment. All the processed date will be integrated using Germant c web technologies and will be passed to the control dereices in form of messages, allerts or recurrings.

A cloud platform could be used to store all the date. The Also, the security part, as it is a high priority when it comes to all the devices that collect data around us, mutil see met by the cloud services. The data bocksup and the authority management will be easily done by the cloud provider.