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**Cloud computing**

**Scenario 1: Skywalker Enterprises**

Skywalker Enterprises is a small startup with 10 employees. They develop applications using a proprietary language called the4ce. This is a language that they have developed in-house. Their needs are an environment to write code, email, file storage, and code sharing.

**Suggestion**: PaaS (Platform as a Service) and Iaas

**Reason**: Since Skywalker Enterprises designed their application using their language, they require an environment to write, store, and share code. PaaS is the scenario to build, attempt, and manage applications with the added benefit of not having to worry about the physical infrastructure. Since Skywalker is small company which is in-house so for writing code they can use Iaas.

**Scenario 2: Ms. Marples’ Book Shop**

Ms. Marple owns a used-books store in Montclair, NJ. She has heard her grandchildren talk of 'web-presence'. She would like a website to promote her store. She also needs to perform inventory management, and email (although, she doesn't need internal email, as there is only one other employee (Geoffrey), and she can yell out orders to him).

**Suggestion**: PaaS (Software as a service)

**Reason**: Since Ms. Marple owns a used-books store in Montclair, NJ in which she wants to promote her store for that she need email and inventory report but at the same time only one other employee there so they can directly contact each other via mail so it is more preferable to use Paas.

**Scenario 3: Dr. Agrawal's Website**

Dr. Agrawal (similar names are coincidental) needs to host a website. The website has a bunch of backend scripts. These scripts are written in PHP, Python, and even rely on some Java programs, and some homebrewed frameworks.

**Suggestion**: (IaaS), Infrastructure as a service

**Reason**: To meet Dr. Agrawal’s requirements, the website has to have several backend scripts and frameworks. IaaS would enable him to set up the required infrastructure whilst maintaining full control over the development and the hosting.

**Scenario 4: Stark Enterprises**

Stark Enterprises is a contractor for a government organization. They data mine classified government databases, and use AI to interpret them. They use regular languages such as Python and Ruby. Their main needs are a programming environment and file storage.

**Suggestion**: No Cloud

**Reason**: In this case there is no requirement for creating a Cloud as Stark Enterprise itself use their own device to write program and store it in file storage without use of cloud. Also this is for government purpose we should use local.

**Scenario 5: Beetlejuice Solutions**

Beetlejuice Solutions is involved in programming and developing small web-based advertisements (The ones that pop-up in your browser). They use standard HTML, CSS, etc. They would like an environment for their programmers to work on and be able to share the code.

**Suggestion**: PaaS

**Reason**: Beetlejuice Solutions creates small internet web ads and the team requires a place to write code and share it. PaaS will enable them to promptly implement projects and their management without concerning infrastructure​.

**Scenario 6: SSHMordor**

SSHMordor is a software company that develops device drivers for the Linux kernel. They usually need to run and test their code on various kernel versions (e.g. Linux kernel 5.4, etc.). They of course, program in C. They require a platform where their programmers can write, test, and share code.

**Suggestion**: IaaS

**Reason**: As SSHMordor requires having different Linux kernels to test their code, the PaaS offers quite a versatile environment that can be used to provide various testing environments but for running different versions of kernel like Linux kernel 5.4 and many more, this company can use IaaS in this case.

**Scenario 7: MadMax Game Development**

MadMax is a game development company that makes Linux-based games using C++. They require a solution where their coders can write and test code under different hardware configurations (such as 4GB RAM, 8GB RAM, 2-core CPU, 4-core CPU, etc.).

**Suggestion**: IaaS

**Reason**: MadMax requires a solution that allows its developers to test games under different hardware configurations. IaaS provides a scalable, customizable infrastructure for testing their games in multiple environments​.

**Scenario 8: Frodo and Friends' App**

Frodo, Sam, Mary and Pippin are thinking of buying a server, and developing an app that will help them keep track of their expenses on the way to Mount Doom. Since these expenditures will include sensitive information, no one else should ever be able to get their hands on this information. They don't envision anyone else ever needing to use this app. Encourage them, or Convince them otherwise?

**Suggestion**: IaaS

**Reason**: Since the app deals with sensitive information, an on-premise or IaaS solution will allow complete control over the data. Frodo and his friends can ensure privacy while having flexibility in managing their infrastructure.