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**QUESTION D: CLOUD COMPUTING BASICS**

1. Deploying an application in the cloud is different from deploying it on-premises because, cloud deployments security is managed by cloud providers with full protection, automatic updates, firewalls and DDoS, while On-premises deployment needs everything to be done manually and needs constant IT staff to do these tasks. The deployment speed is different because cloud deployment has rapid deployment using Azure Web App, and the on-premises deployment has a complete longer setup. The resource management is different because cloud deployment has auto-scaling and pay as you go while on-premises deployment has fixed resources such as hardware and upgrades that must be done manually are costly.

For example, EventEase would heavily benefit from using cloud-based deployment, because azure is more secure, the deployment is faster, even though costs would be required for on premises and current solutions.

1. IaaS provides networking as well as virtual machines and storage. It can install any OS because it has full control over servers, but it is very complicated to setup and maintain.

PaaS there is no need to manage the infrastructure because it is a managed platform for app development. It can deploy faster, scale and manage databases, but there is less control over the OS and infrastructure.

SaaS is a fully built software that you can access with the internet. It is always ready to use as there is no maintenance, but there is limitations to how much you can customize is for specific needs.

Event Ease should use PaaS because there is no need to manage servers, it has automatic scaling, integrated with azure sql database and it has a faster deployment.

**REFERENCES:**

<https://www.cleo.com/blog/knowledge-base-on-premise-vs-cloud>

<http://nordlayer.com/blog/on-premise-vs-cloud-differences/>

<https://www.cloudpanel.io/blog/on-premises-vs-cloud-computing/>

<https://cloud.google.com/learn/what-is-iaas>

<https://cloud.google.com/learn/what-is-paas>

<https://azure.microsoft.com/en-us/resources/cloud-computing-dictionary/what-is-saas>

<https://www.bmc.com/blogs/saas-vs-paas-vs-iaas-whats-the-difference-and-how-to-choose/>