CMPE 281 -In Class Assignment -1

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|  | **PaaS (Platform as a Service)** | **IaaS (Infrastructure as a Service)** | |
| **service models** | PaaS provides a platform for the customer to develop and deploy, while managing the underlaying requirements of infrastructure and platforms. | IaaS provides the infrastructure (servers, storage etc,) for the customer to use. | |
| The applications and its maintenance must be taken care by the client. | The platform and applications on top of the infrastructure are taken care by the customer. | |
| **business models** | Client are provided scalable infrastructure and platforms on top of them. Clients can focus on application development. | Clients are provided pay per use scalable infrastructure. They need to maintain the platform as well as the application themselves. | |
| **deployment models** | The service provider needs to manage both physical hardware and the platforms for which the customer has requested. | The provider needs to manage the hardware and connectivity for the same. | |
| **resources** | Computing hardware such as servers, storage, processing power along with the managing components of hardware and application. | Only computer hardware such as servers, storage, processing power and networking | |
| **services** | Ready to use hardware along with the specified platform configurations. | Ready to use self-service infrastructure with scalable options. | |
| **clients** | Software Developers, startups, small companies usually prefer this service. | Startups, small companies as well as large enterprises which has short term requirements. | |
| **Similarities** | Available 24X7 on the net | Available 24X7 on the net | |
| Highly Scalable | Highly Scalable | |
| Pay per use | Pay per use | |
| no initial investment and monthly recurrence charge | no initial investment and monthly recurrence charge | |
| **Examples** | AWS Elastic Beanstalk, Heroku, Google App Engine, | Amazon Web Services (AWS),Google Compute Engine (GCE) | |
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|  | **SaaS (Software as a Service)** | **Paas (Platform as a Service)** | | |
| **Service models** | SaaS Provides customers the updated application for use on the go. | PaaS provides a platform for the customer to develop and deploy, while managing the underlaying requirements of infrastructure and platforms. | | |
| There is no requirement of installation and maintenance from the customer except for connectivity. | The applications and its maintenance must be taken care by the client. | | |
| **business models** | Clients are provided the application directly and is ready to use. | Client are provided scalable infrastructure and platforms on top of them. Clients can focus on application development. | | |
| **Deployment models** | the applications are hosted on a remote platform and is managed by the provider. | The service provider needs to manage both physical hardware and the platforms for which the customer has requested. | | |
| **resources** | All the resources required for the application are taken care by the provider. Customer has no responsibility regarding the application's performance. | Computing hardware such as servers, storage, processing power along with the managing components of hardware and application. | | |
| **services** | Customer must connect to the application using web and can use the services provided. | Ready to use hardware along with the specified platform configurations. | | |
| **clients** | Any user who requires a service on the go. Can be a Developer, Enterprise or a non-technical person. | Software Developers, startups, small companies usually prefer this service. | | |
| **Similarities** | Pay per use | Pay per use | | |
| No initial investment and monthly recurrence charge | No initial investment and monthly recurrence charge | | |
| Hardware components do not require management | Hardware components do not require management | | |
| **Examples** | Google Apps, Dropbox, Zoom meetings | AWS elastic beanstalk, Heroku, Google app engine, | | |