

# Cloud Platforms



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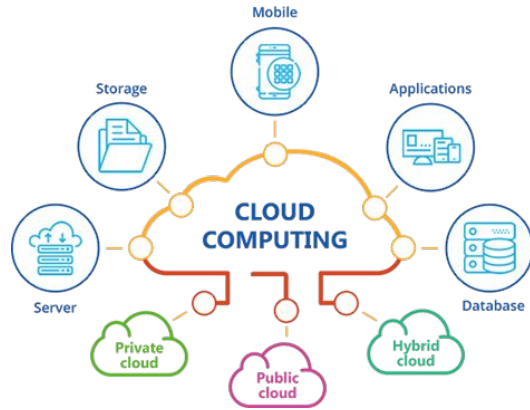
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Institute Of Technology Carlow

# Cloud Platforms

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- Some companies are owning immense warehouses filled with servers that are available to be rented for customers who need better infrastructure: performance, storage, software, etc.

- **Cloud Computing** is the remote use of hardware and/or software service.
- The customers of the cloud will pay for the resources they use.

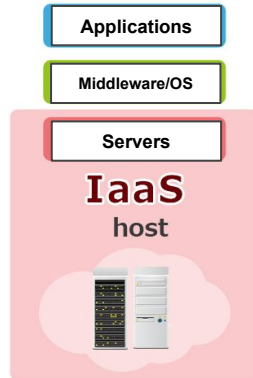


- The application running on a cloud platform performs most of the processing into the cloud. Saving the user memory and battery life.
- The companies using the cloud will minimize their costs
  - No IT specialists
  - No maintenance of physical servers

## IAAS

### Infrastructure As A Service

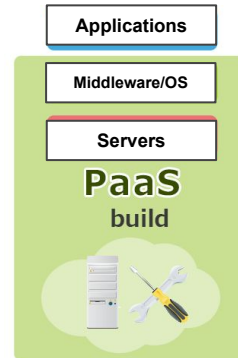
- Most basic option
- The customer is renting only the hardware from the provider
- Needs an IT specialist to configure and maintain the servers



## PAAS

### Platform As A Service

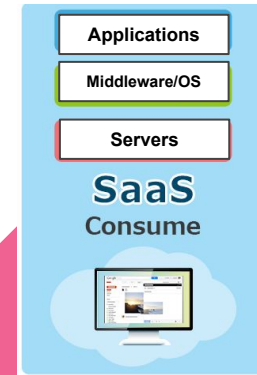
- Is a level up from the IAAS
- Used by developers to build software
- Offers the environment and tools to run the life cycle when developing a software



## SAAS

### Software AS A Service

- The most popular service
- Will provide the infrastructure and software:
- Email, storage
- Google Docs



# Pros of Cloud Platforms

- Better user experience
  - Less memory required and less processing on the user's device
- Costs
  - No IT specialist
  - No need for extra physical space
- Recovery
  - Data is automatically backed up in case of failure
  - Reduced recovery time

# Pros of Cloud Platforms

- Scalability
  - Expand and shrink the resources used ng to the traffic load
- Performance
  - The Cloud providers are usually up to date with the latest and fastest hardware technologies
- Security
  - Far better security than can be achieved
  - Password protected, encrypted when being sent over internet

# Cons of Cloud Platforms

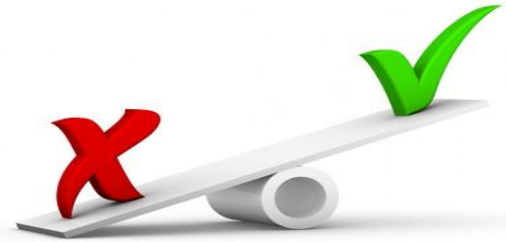
- Long Term Subscription
  - Low costs at the start
  - Monthly payment for the service
- Expansion Cost
  - Using more, increases your costs.
  - You need to make sure you can afford any growth in the business needs or traffic loads.





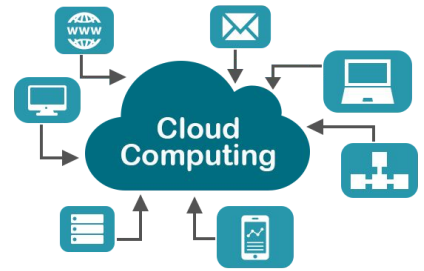
# Cons of Cloud Platforms

- Support
  - Some providers do not offer support 24/7
- Vendor Lock-In
  - Transition to another Cloud Provider cannot be done easily
  - Most clients are staying with the initial provider that might not meet their needs
  - Data might be altered as the result of moving from one Cloud provider to another
- Security Issues
  - Not all cloud providers are very secure.



# Examples of Cloud Platforms

Known Cloud Platforms?



# Conclusion

- Advise Nicole to use a PAAS Cloud Platform



## PROVIDES:

- Necessary tools for developers to develop the application:
  - Implement, testing and release
- Extra options are available on demand
  - User data management
  - Usage statistics of the application
  - Other development facilities
- Accessed using a Web page
- Infrastructure

## Our recommendation regarding a provider for Nicole's Petrol Track Application:



- Highest amount of services
- Servers location in Ireland
- 12 Months FREE trial with no strings attached when the trial is finished
  - Enough time to develop, test and release the application
  - Enough time to resolve any issues encountered during the development
  - Trial period for Premium Services (eg. Dynamic Database)



**THANK YOU  
FOR  
YOUR  
ATTENTION!  
ANY QUESTIONS?**

