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Bridges to College Presentation 4 (Module 3.8)

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**YOUR DESTINY COULD BE WRITTEN
IN THE CLOUD ...**

... OR AN APP

... OR A COMPUTER GAME

... MAYBE EVEN A NEW OPERATING SYSTEM?

STUDYING TOWARDS A JOB INDUSTRY THAT'S ONLY JUST GETTING STARTED

INTRODUCTION

Recent technological developments ... upsurge in students taking up places in Software Programming, Cloud Computing and Application Design.

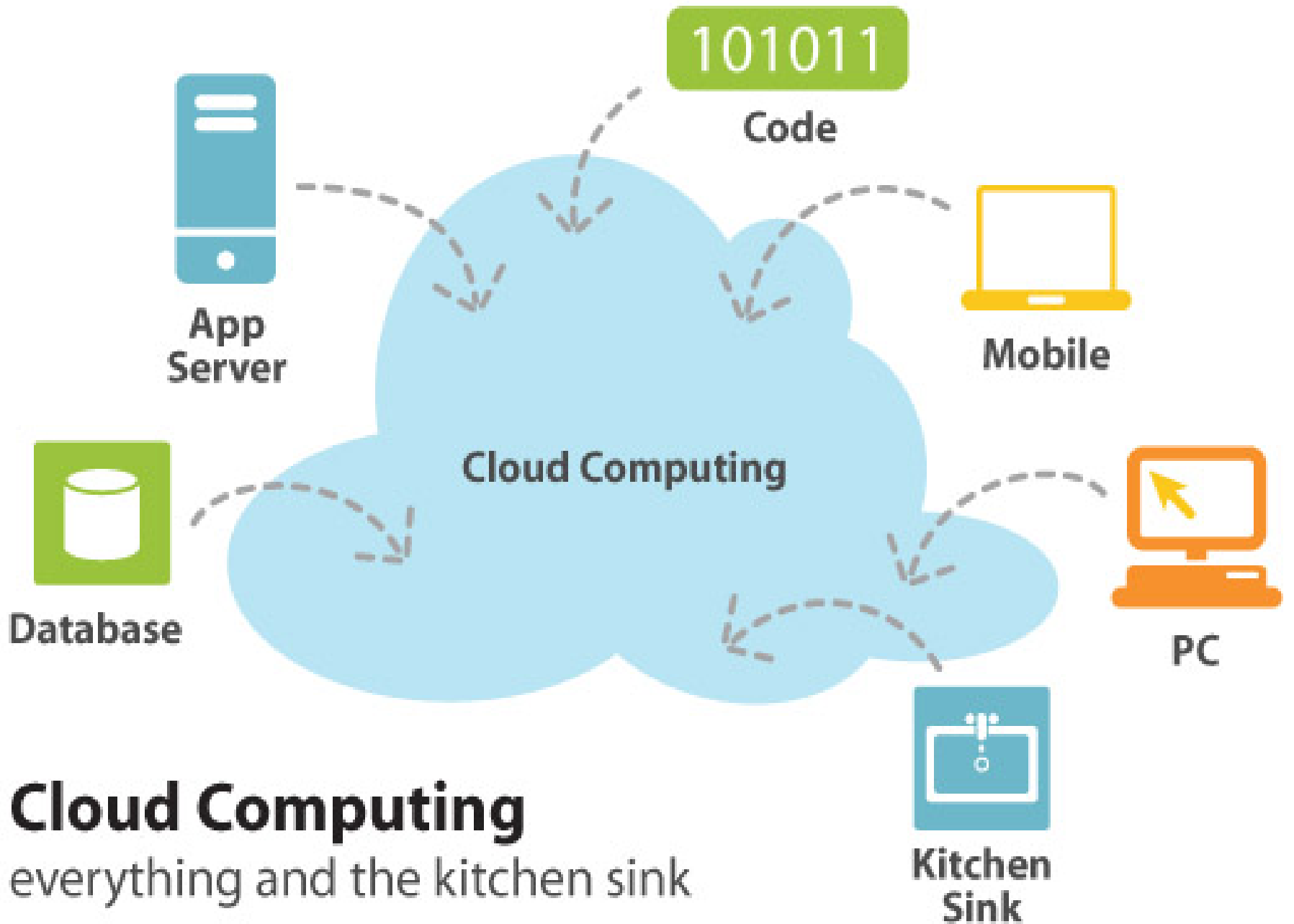
Have you downloaded apps on your phone?

Have you heard data being stored in 'the cloud' – for access wherever you are.

What does this mean for your future?

As we move beyond the physical realm of hardware, companies like Apple, Google, Microsoft, Facebook, etc need lots of skilled professionals in these new areas.

Let's explore a small sample of this concept – and look at 'The Cloud'



WHAT IS CLOUD COMPUTING?

- Delivery of computing as a service rather than a product
- Resources, software and information provided to computers and other devices as a utility (like the electricity grid)
- The Cloud is accessed over a network (typically the Internet)
- Companies like Apple and Google deliver applications via the Internet (through a web browser)
- Businesses or consumers can store software and data on servers at a remote location held by their service provider – accessible from any location at any time

Do you own a **Phone, Laptop, PC, Tablet or iPad?**

Have you ever **sent an email, a text, downloaded a song or movie, or used an app on your phone like Facebook?**

Then you have already used the Cloud!



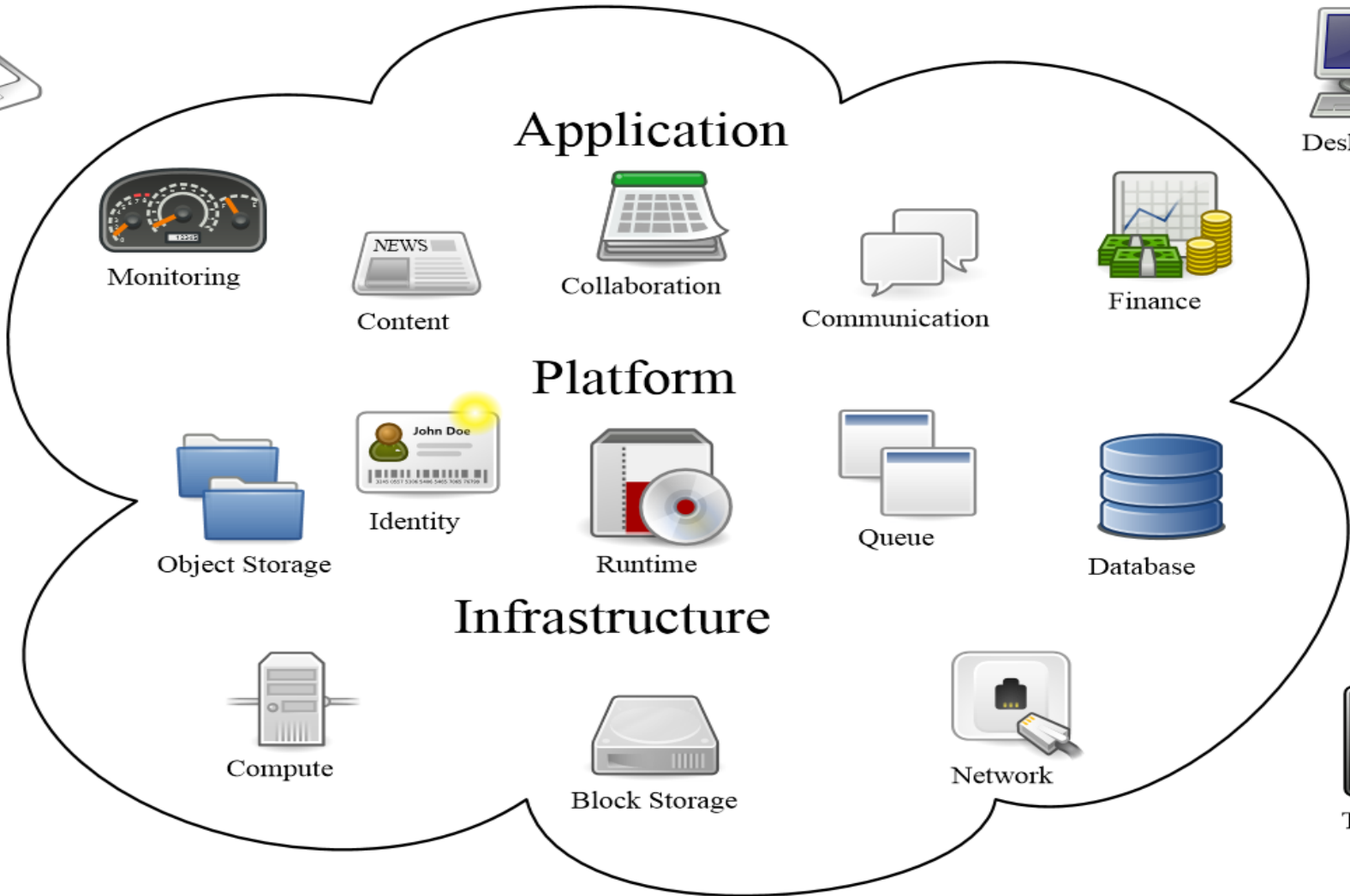
Servers



Laptops



Desktops



Application

Platform

Infrastructure



Monitoring



Content



Collaboration



Communication



Finance



Object Storage



Identity



Runtime



Queue



Database



Compute



Block Storage



Network



Phones



Tablets

Cloud Computing

THE PROS AND THE CONS

About 37% of companies are already using cloud infrastructure, or web-connected data centers, to run their information technology operations, according to a survey by Advanced Micro Devices.

About 63% of the above companies said they are already seeing benefits from using the Cloud.

This is a sector that requires and will require graduates in software programming for some time to come.

Some companies are refusing to use the Cloud. For those, security and loss of data are the biggest concerns. Recent incidents such as Amazon's big cloud outage and Sony's PlayStation Network attack are likely to stoke those fears.

So not everyone likes the Cloud ...

ACTIVITY 1

Brainstorm the types of apps or forms of cloud-computing that students use regularly

Split into 5 groups and carry out the following tasks ...

ACTIVITY 2

1. Think of an idea for a simple iPhone/Mobile 'app' (can be anything) and give it a name. To help, here are a few of the most downloaded apps:

Angry Birds

WhatsApp Messenger

TuneIn Radio

Flight Control

Traffic Rush

Tap Tap Revenge 2.6

Facebook

eBay Mobile

Google Mobile App

Shazam

Google Earth

Skype

Twitter

Movies by Flixster – with Rotten Tomatoes

Bump

Sky News

Labyrinth

Flick Kick Football

Internet Radio Box

Backbreaker Football

Pocket Universe: Virtual Sky Astronomy

IM+ Pro

Tube Map

Solitaire

iBooks

Remote

BBC News

ACTIVITY 2

2. How would your idea fit in with the Cloud? To help we have listed the top 10 reasons for storing data in the Cloud:

1. Automatic Back-Up – store your data without having to manually back it up.
2. New Device – Transfer all of your information from the Cloud to your new PC or Laptop.
3. Security – Cannot be accessed without a password, handy if your device is stolen.
4. Universal Hardware – Access the same data from your computer, tablet or phone.
5. Login Anywhere – Have the information when you need it, wherever you are.
6. Synced – Everything is automatic, constantly updating all your devices.
7. Get In, Get Out – Quick and easy to access, like a normal hard drive.
8. Working Together – Colleagues, friends or family can view the same data.
9. Broken Computers – Don't lose that valuable information!
10. Data is Priceless – Always keep every bit of data you want, no need to delete anything again.

ACTIVITY 2

3. Now present your idea to the rest of the class – and don't forget to think about the following before you do:

1. What could this be used for?
2. Who would use it?
3. Which company would benefit most from developing it?
4. Why would anyone buy your idea?

REFLECTION

Well done on developing your first 'app in the cloud'. You've learned that:

The Cloud and app development are key areas in the job markets.

Big-name companies such as Apple, IBM, Microsoft & Zynga have invested heavily in cloud computing.

Skilled people graduating from college can find jobs in these types of areas.

There are relevant courses available in all the major educational establishments.

Visit

www.CAO.ie, www.gotocollege.ie or www.careersportal.ie

for course information. Don't forget to check out each institution directly!

STUDY THE CLOUD FOR A JOB ON THE GROUND

“National College of Ireland has launched an initiative which aims to get the message across that, whatever your background, you can get a job in cloud computing.”

The logo for Aruba, featuring the word "ARUBA" in a bold, orange, sans-serif font with a white swoosh underneath.The Microsoft logo, featuring the word "Microsoft" in a bold, black, sans-serif font with a registered trademark symbol.

“Dell recently announced Dublin as the site for its first Cloud Research and Development Centre, with 150 jobs. *Farmville* creator Zynga, the world's largest social game developer, announced a major office in Dublin with more than 100 staff. Aruba Networks announced it is establishing in Cork. IBM and Microsoft have also made several announcements in the cloud area in recent times.”

The Dell logo, featuring the word "DELL" in a bold, blue, sans-serif font with a trademark symbol.The IBM logo, featuring the word "IBM" in a blue, sans-serif font with horizontal stripes.The Zynga logo, featuring a white silhouette of a dog standing on a red background, with the word "zynga" in a white, sans-serif font below it.

Would you like to study app-building or cloud-computing?

Here is a list of related further or higher education courses for you to think about:

- **Level 6** - Higher Certificate in Science in Computing (with Options in Computer Applications & Commercial Programming, Computer Networking)
- **Level 6** - Higher Certificate in Computing Applications and Support
- **Level 7** - Bachelor of Science in Computing (incorporating 3 award options)
- **Level 7** – Bachelor of Science in Computing with Business Applications
- **Level 7** - BSc in Multimedia Applications Development
- **Level 8** - B.Sc in Computer Applications (Bachelor Honours Degree)
- **Level 8** - BA (Hons) Marketing with Digital Media & Cloud Computing
- **Level 8** - BA (Hons) Business Information Systems with Cloud Computing
- **Level 8** - BSc (Hons) in Cloud Computing
- **Level 9** - MSc in Cloud Computing