

# University of Toronto **Engineering**



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FACULTY OF APPLIED SCIENCE & ENGINEERING

# Module 6 – the Amazon EC2

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Webservers in the cloud



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The EC2 is a virtual compute service

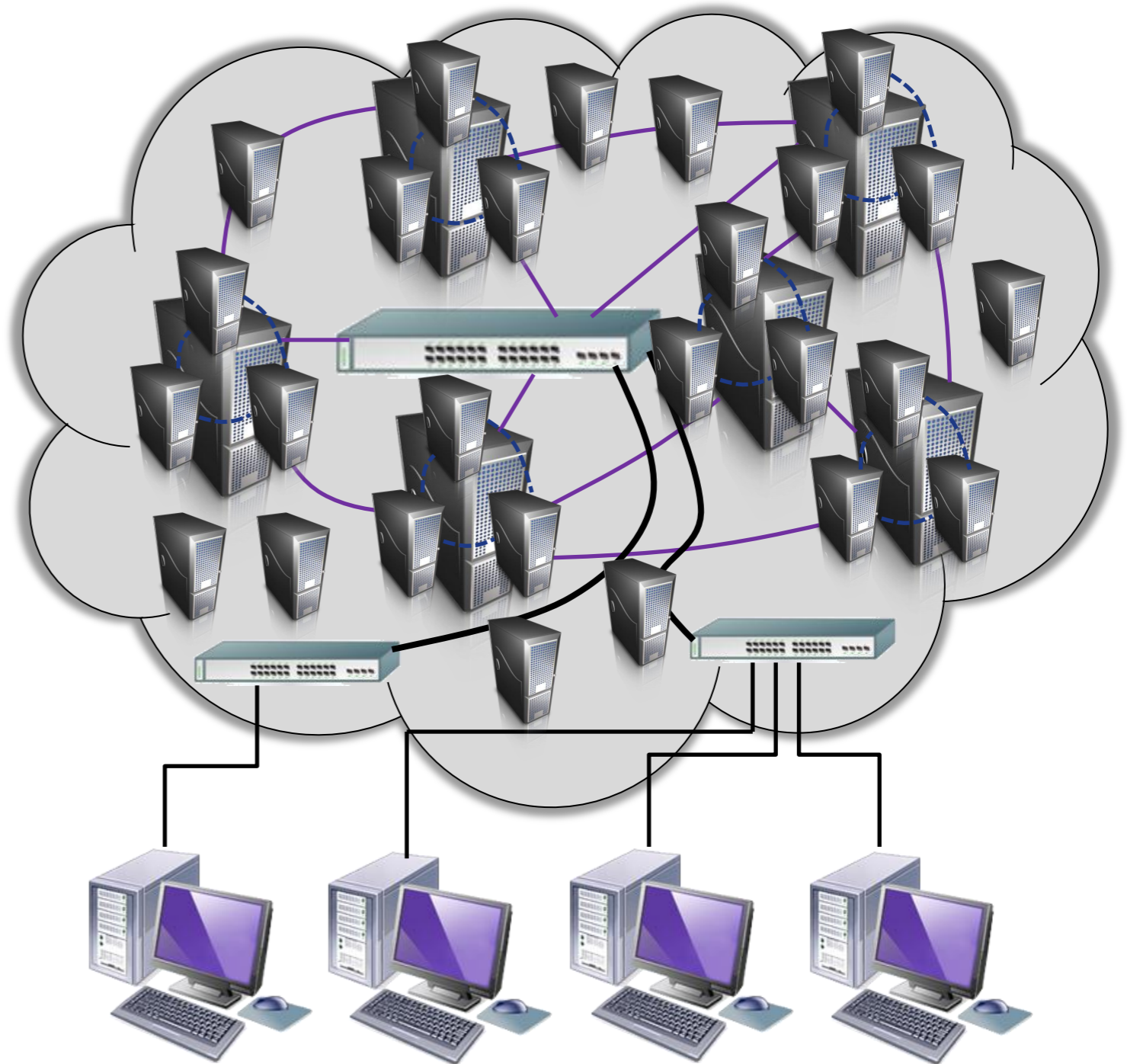
- It stands for Elastic Cloud Compute
- It is an example of Infrastructure as a Service
- We will be creating our own webservers in it!



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## The EC2 is IaaS

- In reality it works on a large datacentre with physical machines
- It acts like many more virtual machines
- When we create a new “instance”, it does this:



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Get into groups of size  $n$ ,  $0 < n \leq 5$ ,  $n \in \mathbb{Z}$

- Make a team name
- Go to [console.aws.amazon.com/ec2/](https://console.aws.amazon.com/ec2/)
- Login with
  - [engout2014%@gmail.com](mailto:engout2014%@gmail.com)
  - EOO2014!
- Teams:
  - *Otters – Julen, Caroline, Nicolas, Mao-mao*
  - *The Nerdz – Sarah, Yudith, Jenny, Sera, Hanyu*
  - *Believers – Dante, Bum, Richard*
  - *Team HTML – Francois, Doruk, Grant, Varun, Yash*
  - *Thulani – Kelvin, Wellough, Noel*
  - *Team Pizza – Alex, Edwin, Jennifer*



# Getting set up on the EC2

Open “EC2 Setup.pdf” from the shared folder



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Now that our instance is made, we need to access it!

- Open PuTTYgen
  - *Conversions > Import*
  - *Select the key you downloaded from the AWS console*
  - *Add a passphrase if you want, but remember it!*
  - *Select “Save Private Key”; NOT “Generate”*
  - *Save it somewhere you’ll remember*
- Open PuTTY
  - *For hostname, enter the IP you associated with your instance*
  - *Under Connection > SSH > Auth, click “Browse”*
  - *Select the ppk you made*
  - *Press “connect”*
- Login as “ec2-user”



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We're now at the remote shell!

- Type “sudo su” – this gives us root access
  - *yum install httpd*
  - *service httpd start*
- Go to your instance's IP in a browser!
  - “*cd /var/www/html*”
  - “*vim index.html*”
  - *Copy your html file there!*
  - *Now reload the page in your browser*
- Try creating additional pages!
- Make a form of some sort...





# Thanks!

# Questions?

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