Basics of Cloud Computing

Guest Lecturer Nick Smith

Date of Lecture
11/2/22

Time of Lecture
3:00 pm

Name of Lecture
Basics of Cloud Computing

Name of Guest Lecturer
Nick Smith

Summary of lecture (150 - 500 words)

We learned about all the tools necssary to start and grow a online
business anywhere in the world. Scaling from hello world to IPO. I
learned what the cloud is, the arhitecture patterns used in the
cloud, demo building services. I learned that Software as a service
is where a vendor manages software and they always have to have the
correct version of the software.

I learned the complexity of deliveraing SaaS is hard. SaaS has to
host and secure servers in physical locations, but and set up those
servers, connect them to the internet, manage their bandwidth, what
have you. I also found that delivering that software is even more
difficult.

The cloud my not be for everyone it requires a client and server
relationship, with a 3-tier architecture. This architecture is the
presentation, logic, and data tiers. There is a monoloith and there
are microservers, each of which has their trade offs. There is the
API gateway pattern to interacting with a SQL data base and this is
like a facade pattern in object-oriented design. Which is
responsible for authentication, authorization, monitoring, and load
balancing.

About Shopify
shopify.engineering

What is the cloud

I learned that nick.smith@shopify.com is provided and he stated that
it takes 20 minutes to download shopify from github. I learned that
shopify has over 4,000 swe working for it and I learned what
sharding is.

20 minutes to download shopify from github

What did you learn from the lecture

Questions
What is sharding?
Why would you want to have multiple different mySQL data bases

Tobi Lutke - Building a Modern Business By Patrick O'Shaughnessey (

https://podcasts.apple.com/us/podcast/invest-like-the-best/
id1154105909?i=1000474333829)

My guest today is Tobi Lutke, the co-founder, and CEO of Shopify.
This is both a timely and evergreen conversation. Timely, as the
world as moved aggressively digital in the past two months, and
Shopify powers so much of digital commerce. Evergreen, because
while we touch on Covid and the Shopify business, this is much more
a conversation on business and personal principles, learning,
design, and growth. Tobi is one of the CEO's I look up to most for
the type of company he is building and for the way he conducts
himself. We discuss business focus, why video games help you learn
the power of attention, what design means for products and
organizations, and much more. Please enjoy my conversation with Tobi
Lutke.

https://www.docker.com