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A Bing-Inspired View of Cloud Management

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Trends in Cloud

- More, More, More
 - Faced with increasing scale, automation is the only path to survival
 - “Human-touch” creeps into processes – constant vigilance required to stamp it out
- Network time is significant and increasing(?) component of total Page Load Time
 - Lots of causes, lots of solutions – all important
- More powerful servers need a more powerful network
 - Server costs dominate, so network spend that unlocks server capacity pays back quickly

How to Get Started

- Talk to your own enterprises
 - Your campus IT folks
 - Companies nearby
- Talk to anyone that runs applications or networks
 - NANOG, LISA
- Get your hands dirty
 - Build a cloud app
 - Set up a cloud – emulab? your own scripts? Try provisioning 10 servers, or 1 server 10 times

How to Do Good Work

- Experiment!
 - Do microbenchmarks
 - Get time on cloud services (Azure, AWS, ...) there are programs to help pay for it
 - Simulations alone don't cut it
- Make friends with HCI/Sociologist colleagues
 - Management processes have a human element
 - Do a real study of them
 - There are fields that know how to do this