A datacenter has 50 - 250 containers
A container has 1,000 - 2,000 servers
A server has two processors, 2 disks, tons of memory, battery backup
Processors are chosen for power efficiency, not performance
Cloud email accessed through the browser

... with the cloud provider’s domain name ...

... or with your own

Why not office applications too?

Why not everything else?
Consider ...

- Sharing is easy
- Someone else does backup
- Someone else handles software updates
- There’s 7x24x365 operations support, auxiliary power, redundant network connections, geographical diversity
- Scalability – both up and down – is instantaneous
- Many fewer demands on the local operating system and machine

Amazon Elastic Compute Cloud (EC2)

- $0.24 per hour for
  - 2 cores of 2.4 GHz 64-bit 2007 Opteron
  - 15 GB memory
  - 1.7 TB scratch storage
  - Need it 24x7 for a year?
    - $1167

- $0.06 per hour for
  - 1 core of 1.2 GHz 32-bit or 64-bit Intel or AMD
  - 1.7 GB memory
  - 160 GB scratch storage
  - Need it 24x7 for a year?
    - $292

This includes
- Purchase + replacement
- Housing
- Power
- Operation
- Reliability
- Security
- Instantaneous expansion and contraction
- 1000 processors for 1 day costs the same as 1 processor for 1000 days!