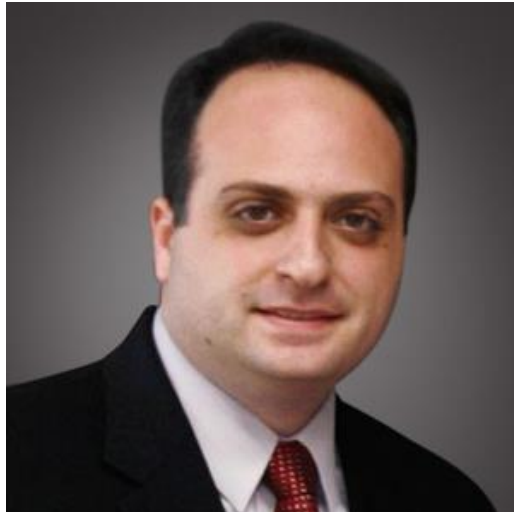


Introduction to AWS




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AWS History

- In **2002** Amazon Web Services was born
- In **2006** Jeff Bezos took the stage at MIT's Emerging Technologies conference to talk about two cloud computing products and the ambitions the company had for them
- EC2 was developed first and foremost for Amazon's internal infrastructure





There's a hidden Amazon, just under the epidermis, the guts of Amazon, this is all the stuff we have to do on the back-end to make this work.

— Jeff Bezos



An Infrastructure Service for the World

- In **2003**, started trying to build an "infrastructure service for the world"
 - His hope was that he could develop a service that would not only deal with Amazon's infrastructure, but also help developers



Chris Pinkham

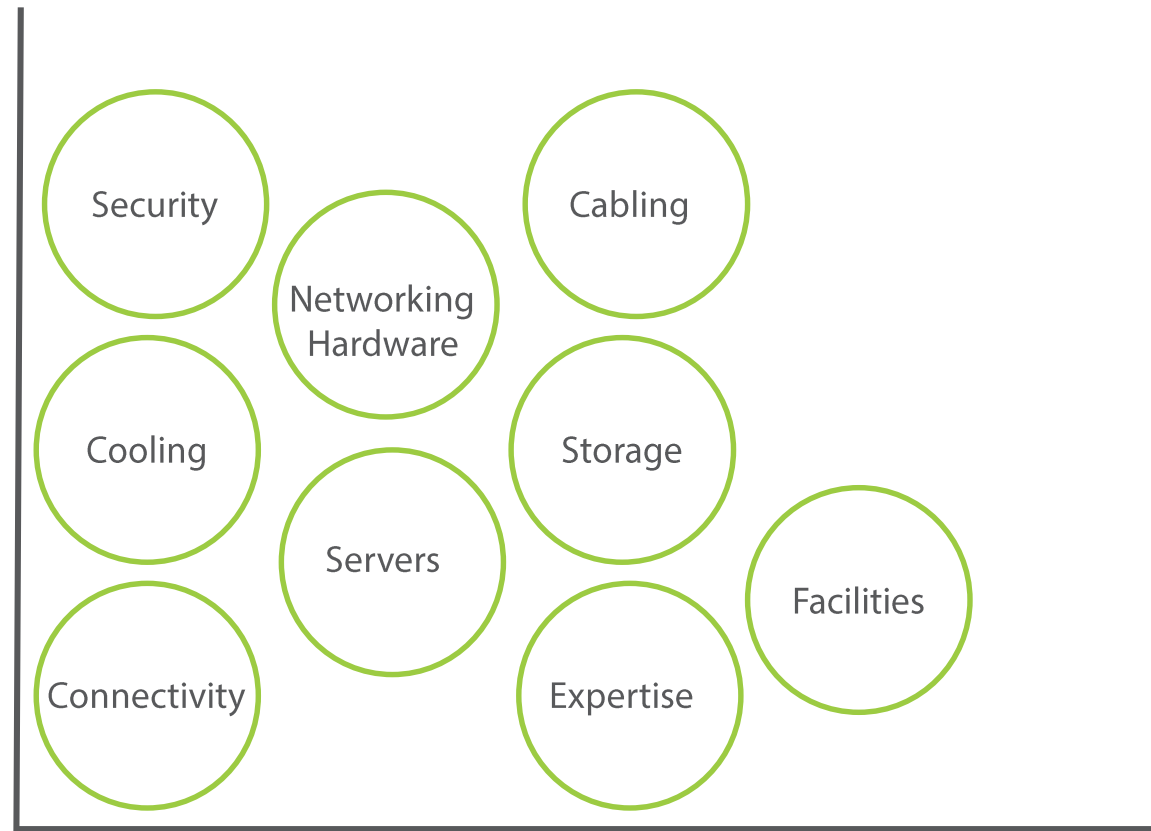
“

From experience we knew that the cost of maintaining a reliable, scalable infrastructure in a traditional multi-datacentre model could be as high as 70 percent, both in time and effort, and requires significant investment of intellectual capital to sustain over a longer period of time.

— Werner Vogels | Amazon CTO

”

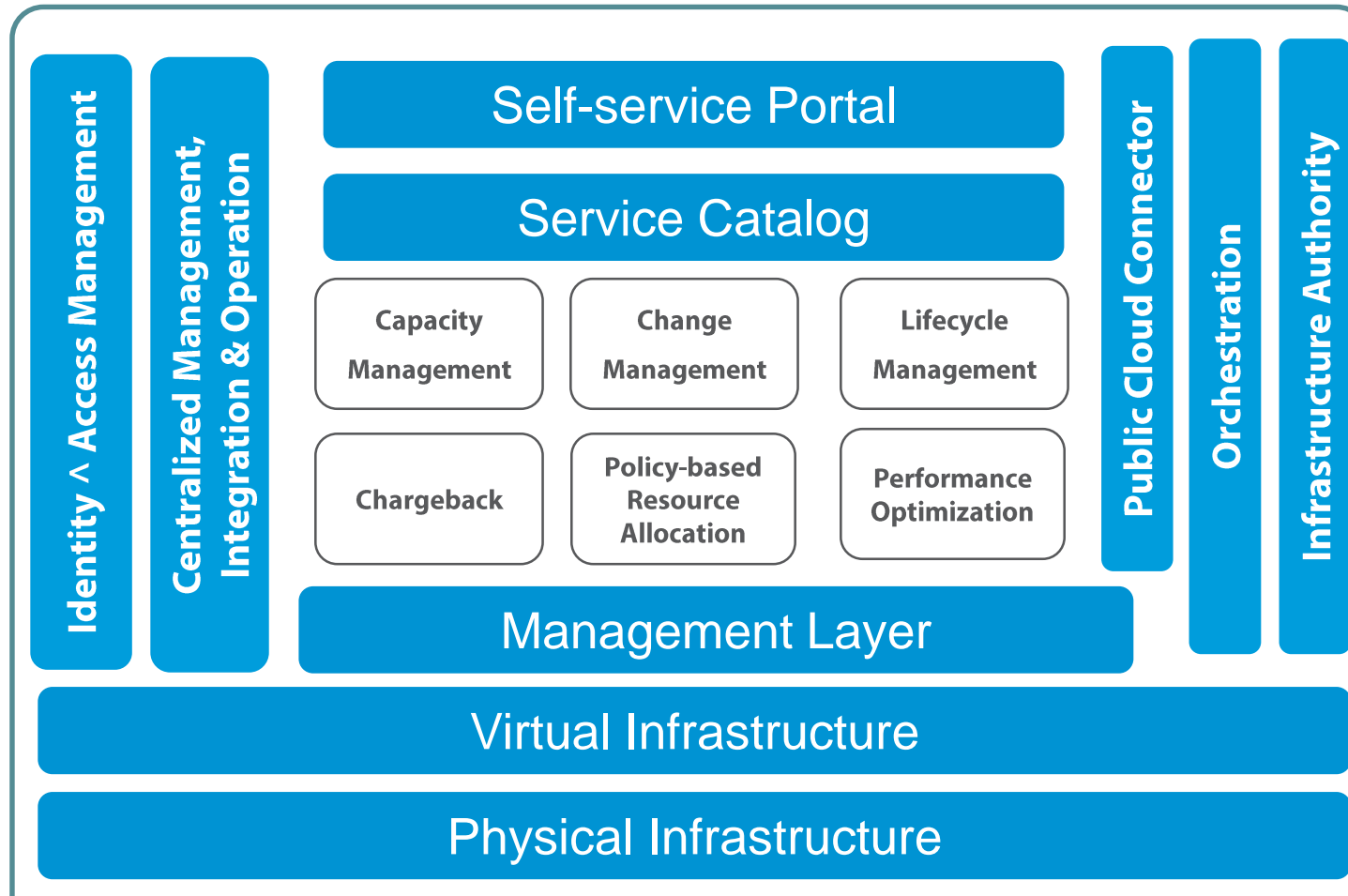
On-Premises Components



Before & After



Understanding IaaS



DIY

AWS

Scale-up



Elastic services

Assume reliable infrastructure



Expect infrastructure failure

Diverse **Technical Expertise**



Expertise forced on applications

Application unaware of
infrastructure



Application aware
infrastructure

High **upfront costs**



Usage-based **costs**

Design, build, operate, support



Limited knowledge / **Shared support**

Summary



AWS History

Understanding IaaS

DIY vs. AWS