



**Hewlett Packard**  
Enterprise

o o o



**advania**  
data centers



**Opin Kerfi**  
- allt er mögulegt

UberCloud  
The Application Container Factory



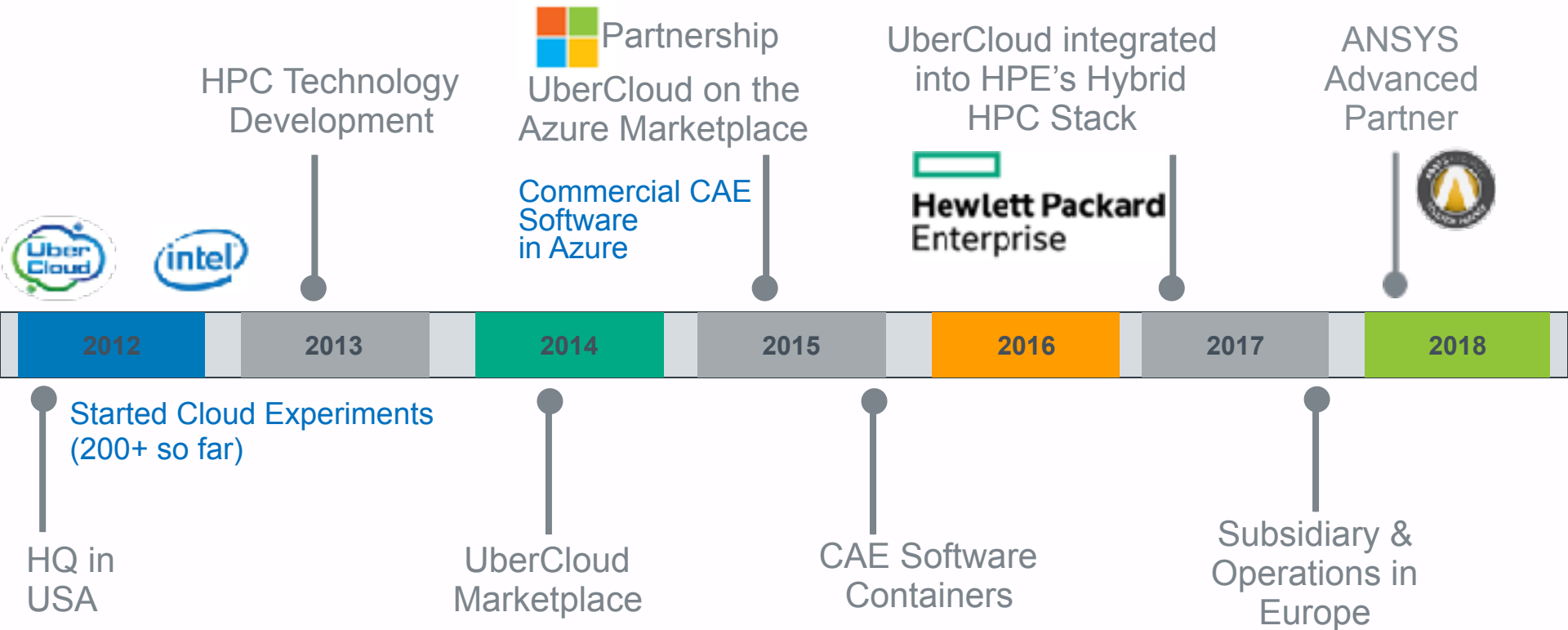
Delivering performance  
to compute intensive applications

**Burak Yenier**

CEO, UberCloud



# Brief History

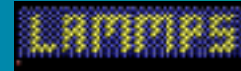


# Containers have interesting properties



- immutable
- independent from host OS
- light weight - easy to build and store
- user space isolation
- easy to script - user defined images

# Complete Technical Computing Cloud Solutions On Azure and HPE



High Performance Enterprise Cloud Platform



# Example: UberCloud ANSYS Offering



HPC Performance  
Desktop Look and Feel



**Full Desktop  
User Interface**



**Pre and post-  
processing in the cloud**



**Flexible Cluster  
Sizing**



**Flexible  
Licensing**

# Example: UberCloud ANSYS Containers on HPE bare-metal hardware



HPC Performance  
Desktop Look and Feel



# HPE - UberCloud Solution

UberCloud's software packaging technology makes CAE software available on HPE



Rstor.io

HPE OneView

CMU

HPC services

Legacy HPC

Private Cloud

Public Cloud

HPE's focus is the Hybrid HPC Platform



# Example: ANSYS UberCloud Container on Azure



Azure Hardware

## UberCloud Software Container



- ✓ ANSYS R19, Workbench, Fluent, APDL & SpaceClaim, ...
- ✓ UberCloud IP for distributed service discovery, key-value store
- ✓ Libraries and drivers for InfiniBand and GPUs
- ✓ Remote HD graphics with Azure GPUs

## Cluster Creation and Management



- ✓ CycleCloud to create and delete HPC clusters on-demand
- ✓ Fully integrated management stack

## UberCloud Deployment

- ✓ Setup and validate the stack in UberCloud's Azure subscription



## CHALLENGES FACED BY THE HPC COMMUNITY



**Remote  
Access to  
Hybrid Infra**



**Hardware  
Specialization  
and Cost Management**



**Lack of Standards  
and Blue Prints for  
Cloud Deployments**



**Flexible  
Licensing**



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