



**Hewlett Packard**  
Enterprise

o o o



**advania**  
data centers



**Opin Kerfi**  
- allt er möguleg!

**UberCloud**  
The Application Container Factory

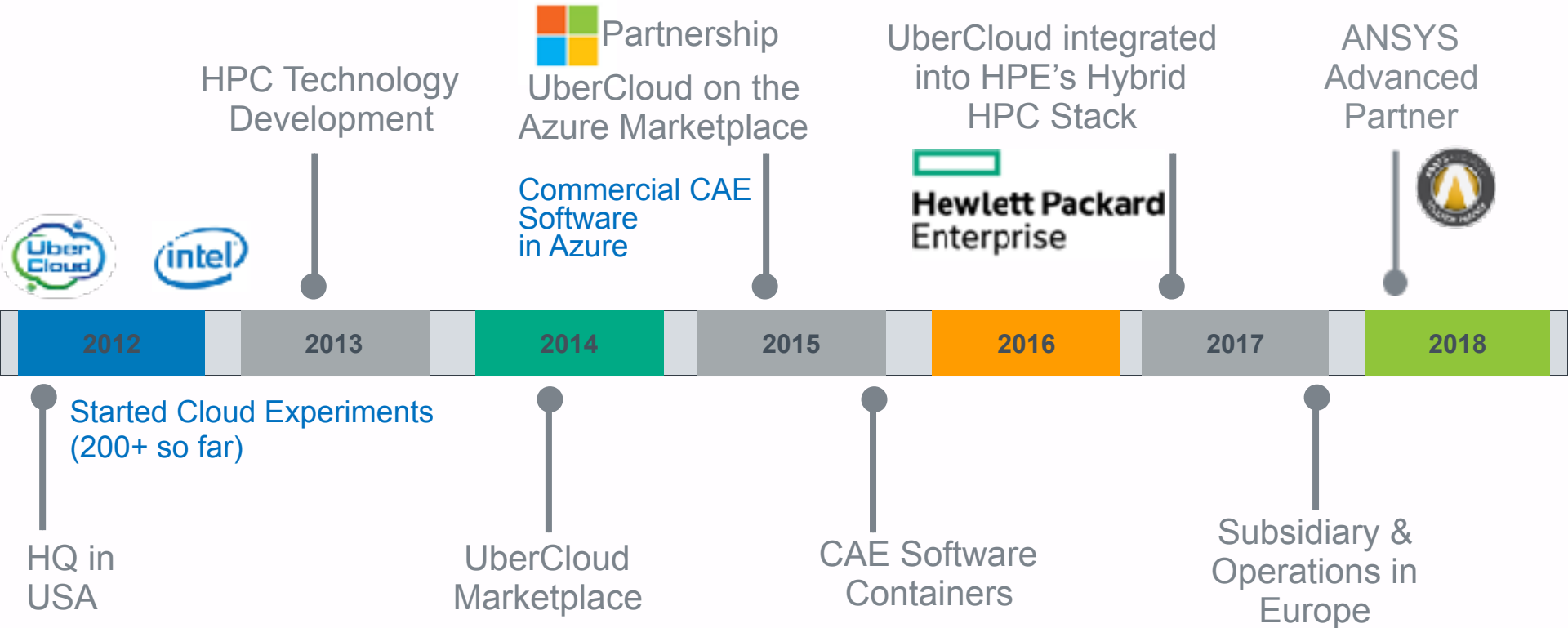


Delivering performance  
to compute intensive applications

**Burak Yenier**  
CEO, UberCloud



# Brief History

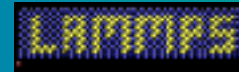


# Containers have interesting properties



- 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



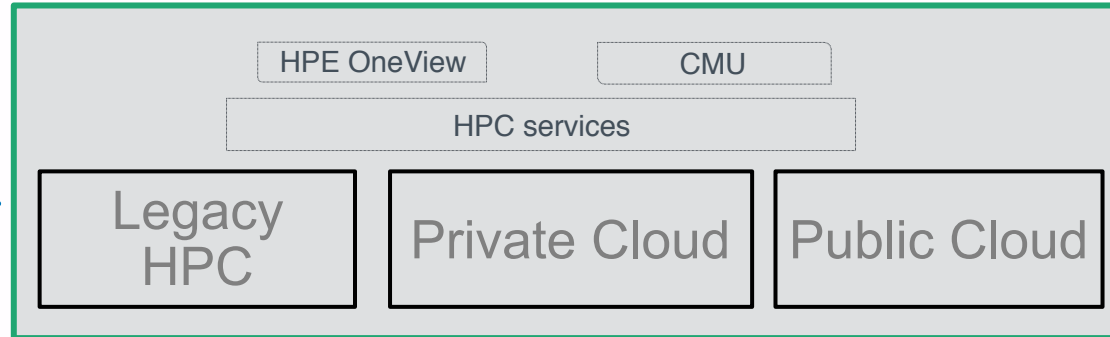
# HPE - UberCloud Solution

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



Rstor.io

HPE'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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