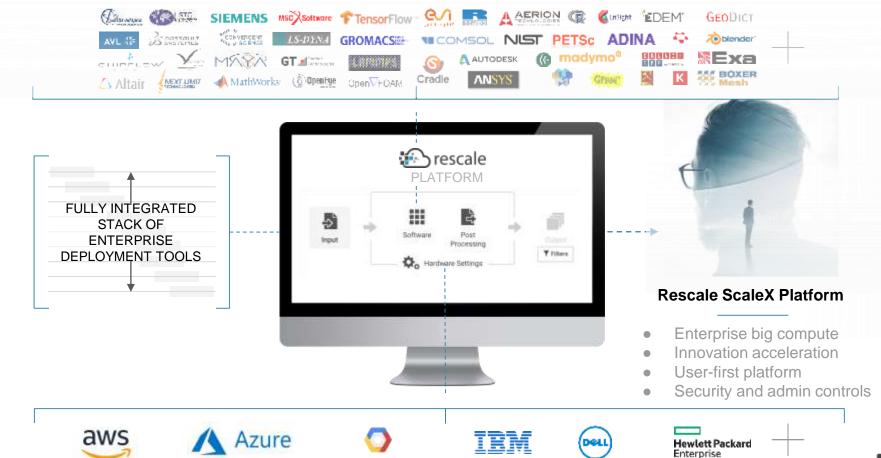


Extending on-premise HPC to the cloud

Gabriel Broner, VP & GM of HPC, Rescale HPC User Forum, September 2018



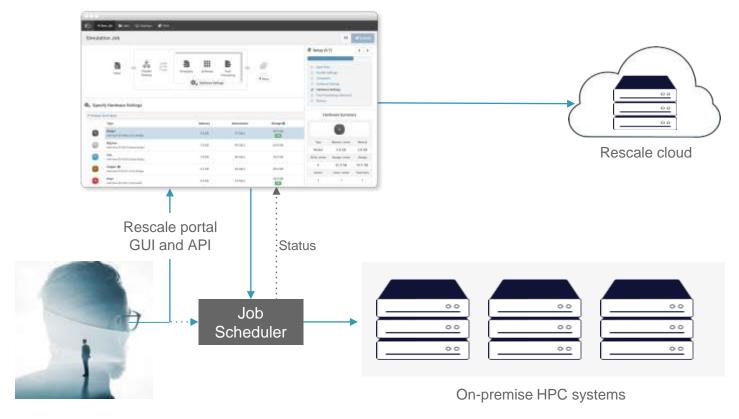
The Rescale HPC Platform





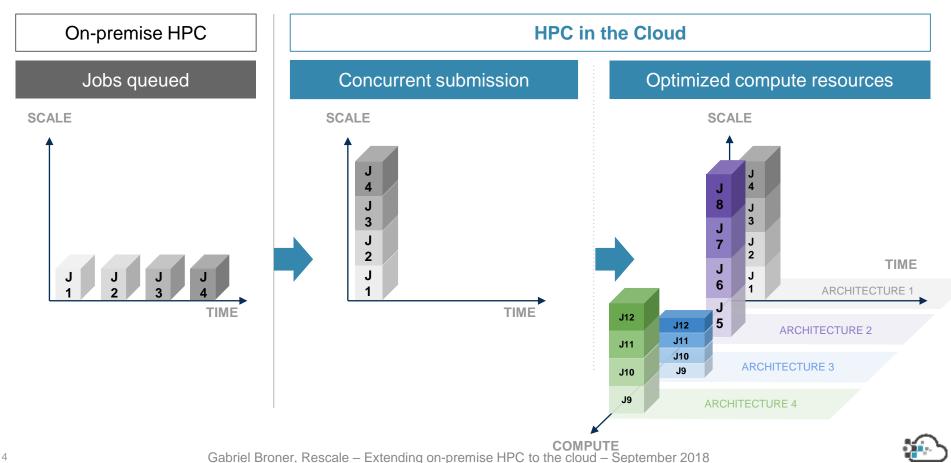
HPC with Rescale

Unified on-premise and cloud environment

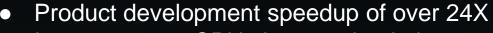




Scalability: faster results, shorter turnaround time



Advanced Rocket Design & Development



 Instant 1,000+ CPU clusters simulating design performance



Scalability keeps American Axle on schedule



- On-demand licensing and instant scaling for Star-CCM CFD analyses
- Flexible compute resources enable tight deadlines to be consistently met



University Deployment

- Rescale as common HPC platform
- On-premise + public cloud
- Supports large increase in new users (internal and external) and applications



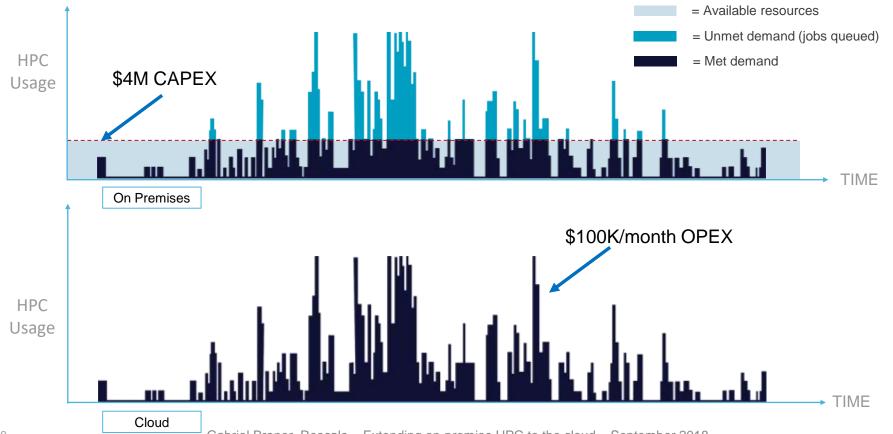






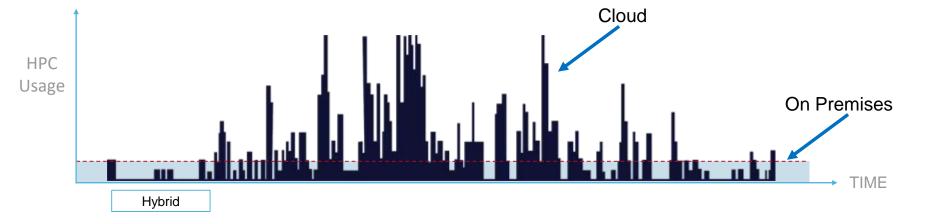
Cost of on-premise vs cloud

Tier 1 Automotive Supplier Example





Optimizing cost with Hybrid



Place workloads to achieve best possible result



Transformative Benefits

A new approach to HPC

- Hybrid cloud with on-premise support
- Multi-cloud environment
- Access the latest architectures with no wait
- 250+ applications ported and tuned
- Recommends the best architecture for each job
- Configurable SaaS workflow reduces the need to develop and maintain custom scripts for each system
- Fast learning curve for new HPC users
- Pay per use for hardware and software
- One platform to access and administer all systems



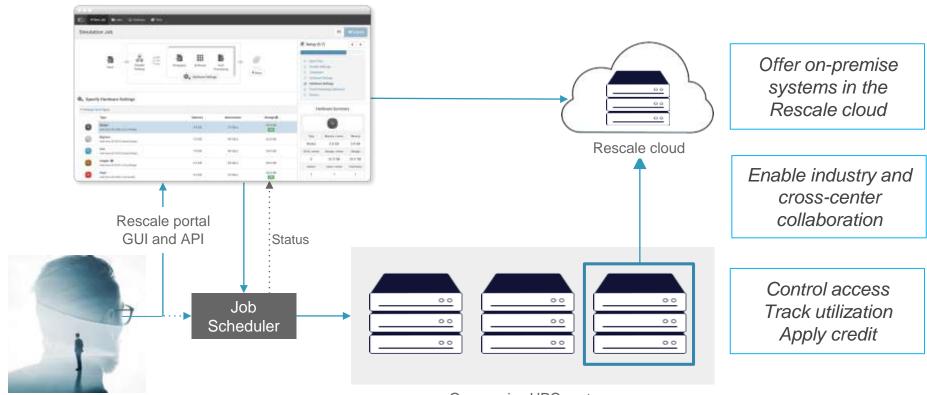
HPC with Rescale

Unified on-premise and cloud environment ERNAMES IN Rescale cloud O. Specify Hardware Stational 00 Rescale portal **GUI** and API Status External HPC center Job 00 Scheduler 00 00 On-premise HPC systems



Offer on-premise systems in the Rescale cloud

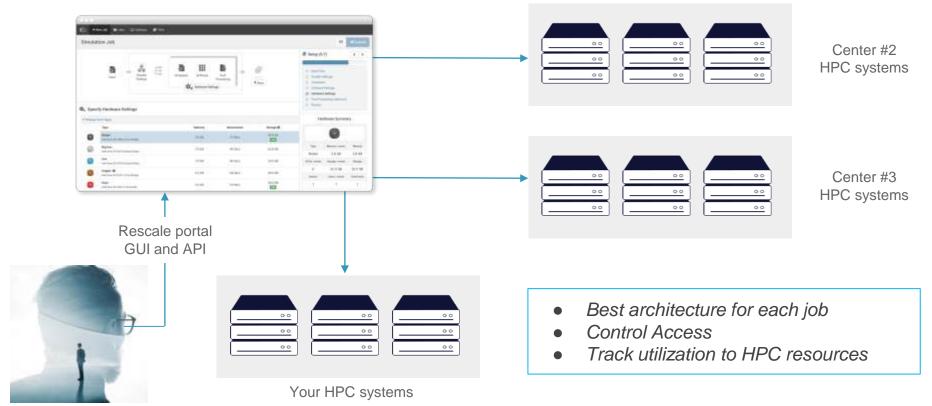
Enable external access to your on-premise systems





Cross-center Collaboration with Rescale

Unified Access Across HPC Centers





Absolute enterprise security, delivered end-to-end

Rescale delivers best-in-class security layer across entire platform



Rescale is compliant with the strictest industry security standards

- Full administrative management and IT dashboard provide comprehensive controls and visibility
- Software defined security policy implementation tools to enforce proper IP handling
- Encryption in transfer with high-grade TLS and multi-layered encryption at rest with 256-bit AES













SOC 2 Type 2 Attested

CSA Registered

ITAR Compliant *

HIPAA Certified *

FedRAMP (pending)



The Rescale Team

- Deep Expertise in HPC Applications
- Six years of experience with HPC in the Cloud
- Significant Experience with HPC customers





Rescale at a Glance

FOUNDED 2011

LOCATED SAN FRANCISCO (+ LONDON, MUNICH, TOKYO, SEOUL, SINGAPORE)



DELIVERS ENTERPRISE BIG COMPUTE PLATFORM

FUNDED

















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