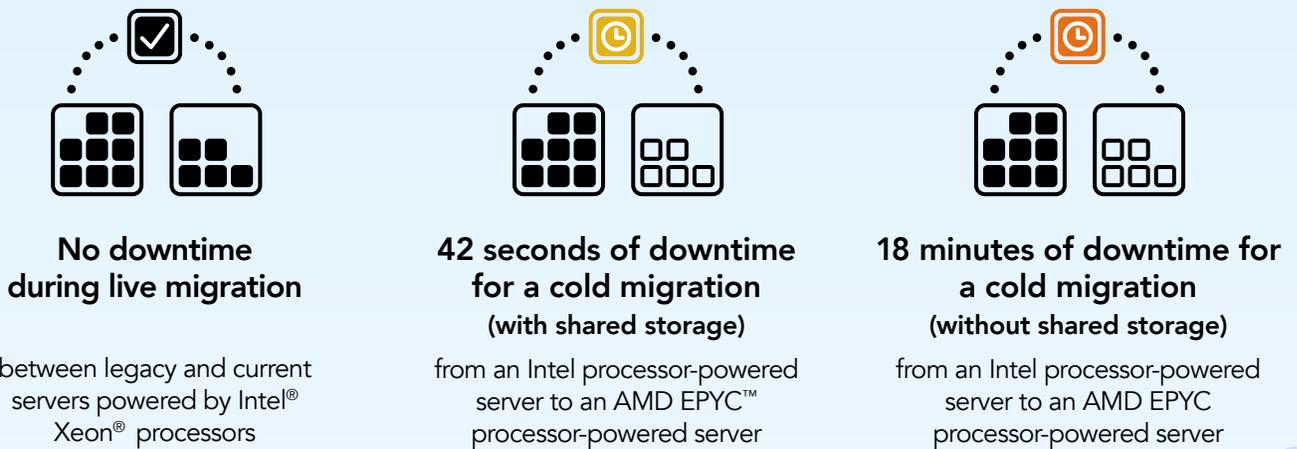


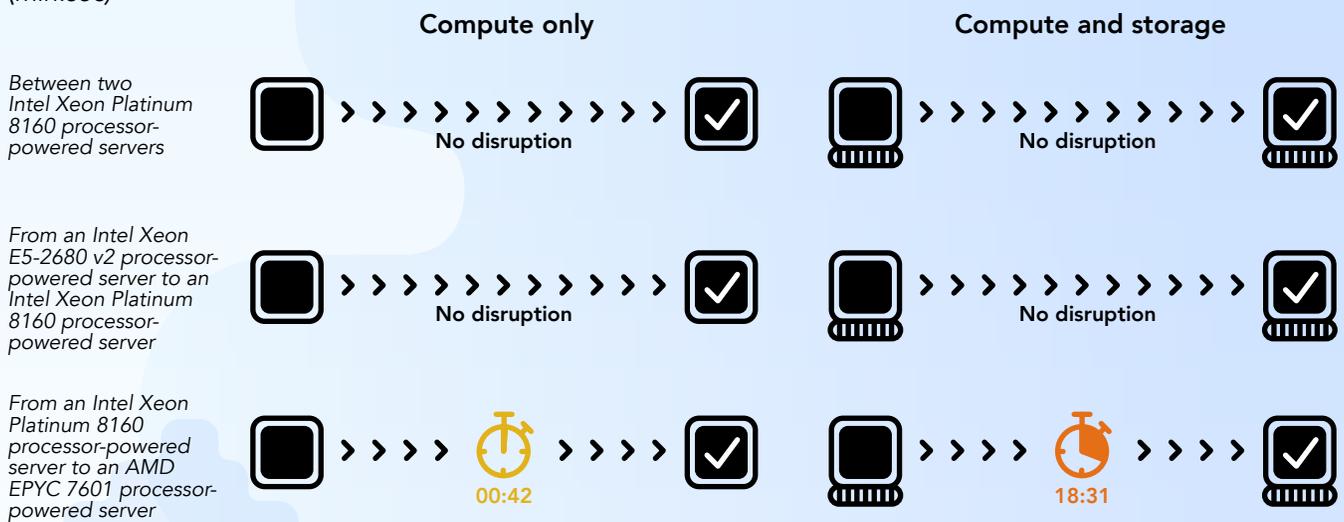
Maximize workload mobility—data center to cloud—by using consistent processor architecture

You can migrate live VMs between Intel processor-based servers but migration in a mixed CPU environment requires downtime and administrative hassle

If your enterprise uses hybrid or multi-cloud environments, workload portability is key to maximizing business agility and being able to migrate virtual machines seamlessly between servers without downtime is highly advantageous. We tested three VM migration scenarios using VMware vSphere® 6.7 to create a VM running Microsoft Windows Server 2016 Datacenter on each server, installed Microsoft SQL Server 2016 onto the VM, and tested availability with a database workload.



Time to migrate a 60GB VM running Microsoft SQL Server 2016 (min:sec)



Because live migration is possible on all Intel processors from 2006 on,¹ we could migrate live VMs between Intel Xeon processor-based servers with zero downtime. To move VMs between servers powered by different processor architectures required first shutting down the VM for a cold migration, which took the workload offline for as long as 18 minutes. Downtime can be expensive for businesses to plan around, so be sure to factor this added expense into your calculations when selecting new servers.

Learn more at <http://facts.pt/8zysd88>

¹ EVC and CPU Compatibility FAQ, accessed January 10, 2019, <https://kb.vmware.com/s/article/1005764>.