Don't Get Stuck on Your Virtualization Journey: Where to Focus Next

With each step forward, the rewards increase exponentially

THREE PHASES OF VIRTUALIZATION MATURITY

A typical virtualization journey consists of three distinct phases (see Figure 1):

- Phase I: IT Production. Virtualization is used primarily for server consolidation of IT-owned applications.
- Phase II: Business Production. Businesses begin using virtualization for business-critical applications such as Microsoft Exchange Server, Oracle, or SAP, and deploy more advanced virtualization automation and management features.
- Phase III: IT as a Service (ITaaS). All applications are eligible to run in virtual machines (VMs), advanced techniques are used to manage and monitor virtual servers, and IT organization and processes are updated to run efficiently within virtual infrastructure.

IT as we know it is evolving: Businesses are on an IT transformation journey that typically starts with virtualization and ends with the shift to an IT-as-a-service model based on a cloud infrastructure. Of course, the journey isn't always linear—some organizations continue to invest in virtualization and private cloud technologies, while others leap straight to the public cloud, depending on their business models and goals. Still, a recent HP and VMware global survey found that most businesses go through three phases of maturity before they reach the final destination of cloud-based ITaaS.

Businesses often get stuck at some point along their virtualization journey. This can happen for various reasons, including lack of budget, lack of a long-term cloud strategy, or simply a lack of technical expertise to move to the next level. The HP and VMware study shows, however, that the rewards accelerate with each phase, and that stopping short of reaching ITaaS means that businesses fail to reap the full value of virtualization and cloud computing.

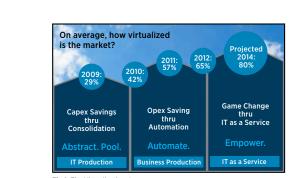
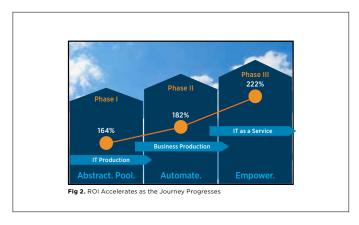


Fig 1. The Virtualization Journey

On a global scale, businesses have high expectations about the rewards for completing the full virtualization journey. According to the HP and VMware global survey of customers before they virtualized, almost half (47%) expected to be able to do more with less IT staff. Thirty-eight% expected to be able to deploy new applications more quickly. Twenty-nine% expected that their end users will be able to access their applications from anywhere.

It is important to understand that the journey is self-accelerating. In particular, the companies that achieve ITaaS see ROI gains of 222%, compared to 164% for those that stop at Phase I (see Figure 2).



Based on the HP and VMware survey of customers, the majority of businesses surveyed are in Phase I (29%) or Phase II (45%) stages. Only 15% have moved to ITaaS.

-VMware Virtualization Journey to ITAAS Survey, October 2012.

As the journey progresses, virtualization value shifts and increases

The benefits of each phase of the journey are distinct from one another. This means that businesses do not just achieve "more of the same" as they pass from Phase 1 to Phase 2, and from Phase 2 to Phase 3.

For example, in Phase I, during the initial consolidation and pooling of hardware resources, the gains are primarily CAPEX because fewer servers are required to run the same number of workloads. During this phase, businesses can frequently also pay less for software licenses. Typically, businesses in Phase I have virtualized up to 30% of their hardware.

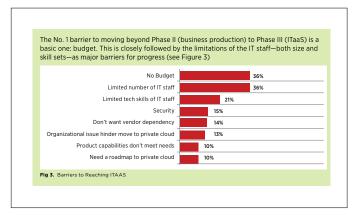
In Phase II, when the main focus is on automating management of VMs, up to 70% of hardware is virtualized and the value shifts to OPEX savings. At this stage, IT organizations are typically virtualizing their business-critical applications and assigning service-level agreements (SLAs) for performance and availability for their users. Businesses also find that the reliability of their IT infrastructure improves significantly during this phase due to enhanced disaster recovery and business continuity functionality.

Don't Get Stuck on your Virtualization Journey: Where to Focus Next

Finally, in Phase III, upwards of 70% of hardware is typically virtualized. Here, the focus is on virtualizing storage and networking as well as compute hardware, with the goal of delivering on-demand services as the business needs them, such as infrastructure as a service (laaS). The benefits in this stage include significantly enhanced agility and competitive advantage for the business.

Only One-Third of ITaaS Businesses Have Made Necessary IT Organization / Process Changes.

According to the HP and VMware global survey of customers, 66% of businesses that have reached ITaaS have yet to make the kind of organizational and process changes that will allow them to reap the full benefits of virtualization. These benefits include realigning the functional silos of IT workers from being dedicated to devices such as computer, network, security, and storage, to managing IT services and reengineering IT processes as necessary.



What to do next: How to reap all the advantages of the ITaaS phase

Based on a collection of research from businesses that have reached the ITaaS phase of the virtualization journey, the following best practices emerge:

- Secure executive approval and funding for the IT-as-a-Service or cloud computing journey and transformation.
- Develop a roadmap or strategy that covers: hardware, network, storage infrastructure, virtualization technology, and management of those moving pieces, as well as an outline of the service offerings for end users.

- Shift IT's focus from managing technology tasks to delivering services that align with business needs; service-centric IT organizations take the time to start first with the business requirements and the end-user point of view.
- Reinvent your IT organization and processes to align with the technological changes of virtualization and cloud computing.
- Replace manual IT processes with automated ones; starting with a "managed virtualization" platform early can relieve the pain of integrating automation technologies later.
- Create a self-service catalogue of IT services for users and lines of business
- Give IT management control over third-party cloud service providers along with internal IT services.

According to the Customer Journey to ITaaS report, organizations that follow these best practices typically achieve higher operational, financial, and business benefits.

Operational benefits. The time to build and provision new applications decreased 76%, and the time to provision new capabilities to handle workload peaks dropped by 70% for businesses in the Best Practices ITaaS segment. Additionally, the time and resources required to complete new IT projects declined by 69%, and the downtime of Tier 1 applications decreased by 68 percent.

Financial benefits. The costs of numerous IT functions decreased as a direct result of employing best practices while achieving ITaaS. The cost of performing infrastructure testing and the cost of hardware maintenance both decreased by an impressive 72%, whereas the cost of deploying new applications dropped by 68%.

Business benefits. Most significantly, developing a plan based on industry best practices meant that IT had an impact on top-line business results. There was a 25% increase in new business accomplished, and a 17 percent increase in new line-of-business revenues because of the more agile and responsive IT organization.

Conclusion: Don't Get Stalled on Your Journey

It's easy for an IT manager to become a hero by virtualizing a few servers. The initial CAPEX savings and operational efficiencies—not to mention improvements in business continuity and disaster recovery—make it easy to achieve early wins. Long-term value comes to those who continue on the journey. The most successful organizations use cloud technologies as a catalyst to put in place new systems and processes that free IT organizations to maximize not just operational metrics, but also business results.





Your Cloud Advantage

Accelerate IT. Accelerate Your Business