

## TOP 3 DRIVERS FOR ACCELERATING APPLICATION DEPLOYMENT WITH AUTOMATION

### Agility is the Key to Success in Digital Transformation

Businesses in today's digital economy are under pressure to create new business models that more effectively engage customers at every touchpoint in the customer experience lifecycle. Companies that meet these demands too slowly risk falling behind competitors.

Many of these demands directly impact IT. Your ability to bring applications to market fast can have a huge effect on your business, from revenue to reputation and more.

### Business is undergoing a massive transformation

Digital transformation isn't just affecting a few organizations. It's creating sweeping changes across every single industry. From new entrants like Airbnb and Uber that are disrupting existing industries to entrenched companies like General Electric, businesses that can innovate, bring new products and services to market fast, and respond quickly to market forces have a significant advantage over those that move slowly.

### IT agility is a significant competitive advantage

Now more than ever, IT organizations are critical to helping the business achieve both competitive advantage and differentiation with technology. IT's ability to rapidly develop and deliver applications can affect the position of the business in the market and its bottom line.

### Moving at the speed of business requires new capabilities

Compute virtualization fundamentally changed the industry, enabling IT to rapidly provision compute and storage resources and experience improved efficiencies with some degree of automation. But configuring the associated network and security services still requires predominantly time-consuming manual processes. It can take days, or even weeks, to manually configure these services—and today, that's simply not fast enough.

That's why many IT organizations are now taking steps to virtualize the network and fully automate the provisioning of complete application stacks.

#### KEY HIGHLIGHTS

- Digital transformation demands speed and reliability
- IT is being held back by time-consuming, manual processes
- Automation combined with network virtualization provide much-needed agility

**CASE STUDY:  
CALIFORNIA NATURAL RESOURCES  
AGENCY (CNRA)**

The California Natural Resources Agency (CNRA) works to restore, protect, and manage the state's natural, historical, and cultural resources. It serves many different organizations, including fire, energy, and water departments.

CNRA used VMware NSX® and VMware vRealize® Automation to accelerate time to market for its different organizations, as well as lower costs and improve service reliability. The solution capabilities enable IT to dynamically configure network and security policies to meet the unique needs of each business with the appropriate level of governance.

**CNRA ACHIEVED:**

- 300% increase in capacity
- 60% reduction in physical footprint
- 30% reduction in OpEx

[Watch the video >](#)

## The Transformational Power of Automating IT

If your IT organization doesn't have full automation capabilities, you may encounter challenges such as:

- **Reliance on costly, labor-intensive manual tasks**, including provisioning, delivery, and lifecycle management of IT services.
- **Human error and rework** that consume valuable resources and lengthen timelines.
- **Lack of standardization and repeatability** that slow down application delivery and impact reliability and security.

Automation solves these challenges. It speeds up the delivery of applications by automating the delivery of the resources they require, including networking, security, and the infrastructure that supports application development. Automation removes bottlenecks and increases operational efficiency with a process that is standardized, consistent, scalable, repeatable, and secure. A fully automated environment can cut the time it takes to delivery production-ready resources to under an hour.

### A Comprehensive Solution from VMware

VMware provides a natively integrated solution for network virtualization and IT automation with VMware NSX® and VMware vRealize® Suite™.

NSX uses the same principles of compute virtualization to virtualize networking and security services. VMware vRealize® Automation™, a component of vRealize Suite, provides automation capabilities that eliminate error-prone manual processes and create standardized processes to ensure consistency, accuracy, and reliability.

By implementing both network virtualization and automation with NSX and vRealize Automation, you can manage and deploy network and security services more quickly, speed the delivery of complete application stacks, and streamline provisioning.

## Key Capabilities for Automating IT

### Automation for full-stack provisioning of infrastructure and applications

- Automate the provisioning of all infrastructure and application components to minimize time-consuming manual efforts and eliminate bottlenecks.
- Templatize your infrastructure into blueprints, including networking and security profiles, to deliver applications faster and create standardized services.
- Take advantage of built-in policy-based governance to ensure that users get the right size service at the appropriate SLA for the job.

### Virtualization of all networking and security components into the hypervisor layer

- Replicate all networking and security functions in software embedded in the hypervisor, regardless of the topology of your physical infrastructure.
- Automate the provisioning of networking and security policies attached to applications, and help ensure compliance—regardless of their location.
- Take advantage of central management capabilities not only for compute and storage, but for networking and security functions as well.

**BENEFITS ACROSS THE ENTIRE APPLICATION LIFECYCLE**

- **Dramatically shorter provisioning times** and improved resource utilization, which leads to lower OpEx and CapEx.
- **Improved accuracy, reliability, and security** with automated provisioning, management, and de-provisioning of networking and security resources and policies.
- **Faster time to market** with automated configuration and provisioning of security policies, networking, and infrastructure resources.

**Streamlined infrastructure and application lifecycle management**

- Centrally manage the provisioning, delivery, and ongoing maintenance of infrastructure and applications.
- Govern IT resources with consistent policies across public and private cloud environments.
- Align the performance, availability, and capacity of provisioned services with both business needs and the specific needs of your environment.

**Choose the Solution That Provides IT Agility**

VMware solutions for automating IT offer capabilities that enable the full automation, delivery, and ongoing management of networking, security, infrastructure, and application components. This gives you the agility to respond quickly and flexibly to business demands for IT services.

With automation, you can work at the speed of business, while maintaining total control and visibility.

**LEARN MORE**

Learn more about VMware IT automation solutions  
[www.vmware.com/go/automate-it](http://www.vmware.com/go/automate-it).

Join Us Online:

