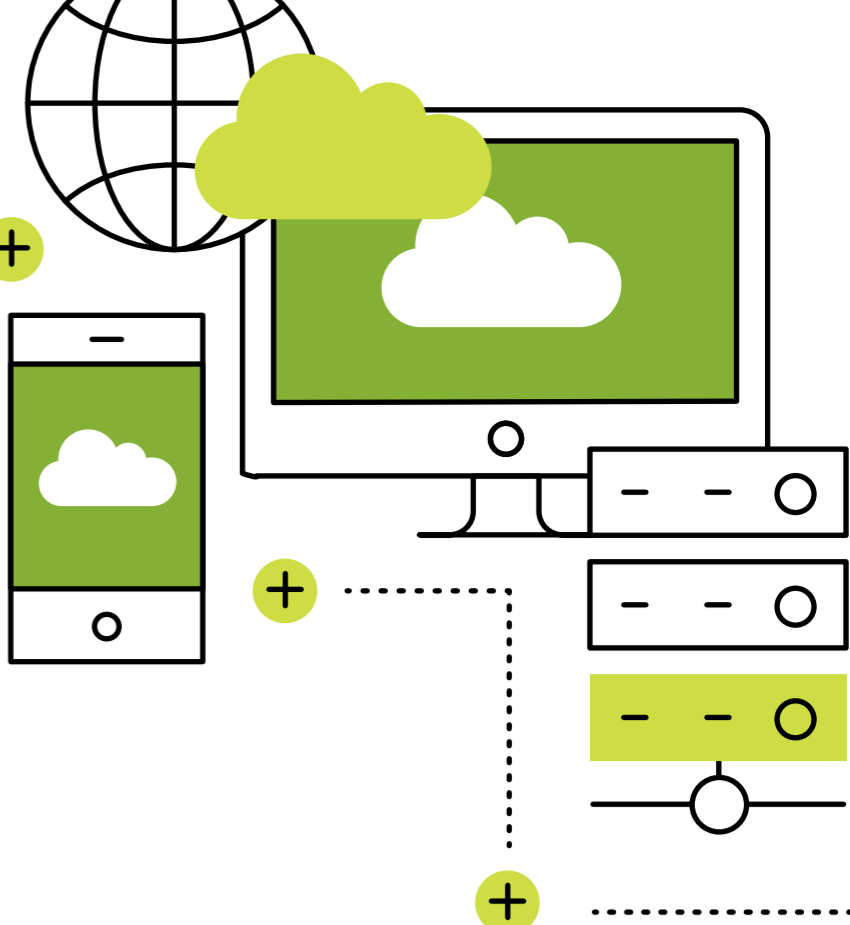


DevOps

in the Multicloud Era

As a DevOps pro or SRE, you're the custodian of the entire application delivery pipeline—from dev and test to staging and production. And you need ever-evolving automation and continuous monitoring.



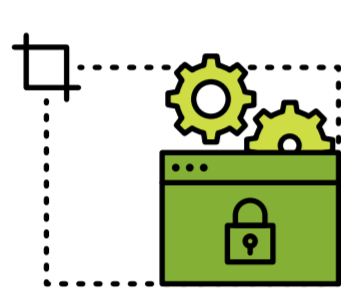
Containers have strapped a rocket to DevOps! And the container market is expanding at a 40% CAGR, growing to \$2.7 billion in 2020.¹

Technology of Tomorrow



We are living in a digital era where technology is shaping the world and developers are shaping technology.

IMPORTANT QUESTIONS:



How can cloud-grade automation ensure business-shaping development teams are creating services with scale, speed, stamina, and security?



To avoid an explosion of options, which choices enable the new while serving the legacy?

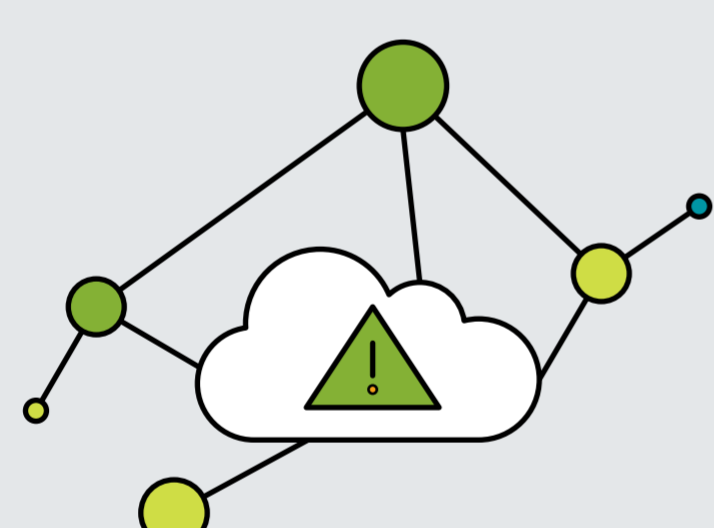


Which choices support speed and reliability while maintaining future flexibility?

Cloud patterns that made DevOps so successful are evolving and creating new challenges to be addressed if DevOps leaders are going to take their tools, processes, and teams to the next level.

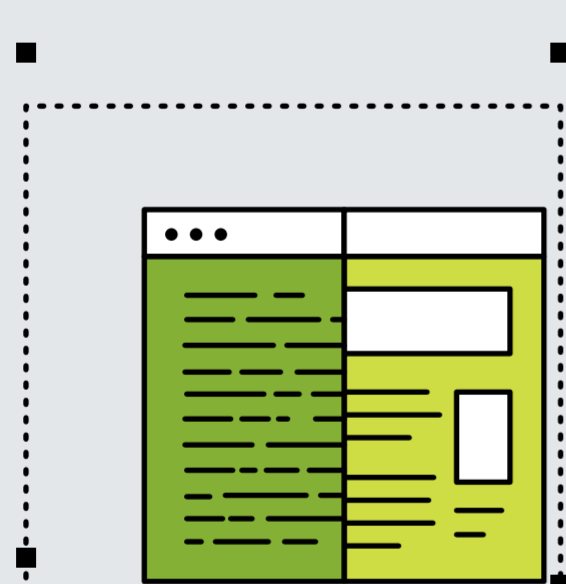
3 Maxims for Multicloud DevOps

DevOps professionals must recognize the benefits they can achieve by leveraging hybrid cloud resources and working in close alignment with IT teams and lines of business.



1. Build for Cloud-Native Scale and Beware the Sticky Public Cloud SaaS

Cloud-native apps can only scale as well as their infrastructure allows. And in a simple way across multicloud to include both public and private clouds. By implementing an evolvable architecture today, teams can avoid a painful reinvention of their infrastructure when larger scale is required.



2. BYO Tools and Processes

Using your own tools and processes—open source and even proprietary—across the multicloud allows you to maintain portability through public and private clouds, increasing your flexibility and potential reuse with legacy systems. Evaluate public cloud services, like choices of proprietary tooling. Place bets when they implement open-source APIs or offer truly differentiated services.



3. Harmonize Policy and People

Harmonize policy and people skills between multiple cloud domains. Once you have a multicloud unified toolchain and processes, interfaces and workflow provisioning, security, and compliance are a natural extension. Cloud management meta-platforms may add another layer of ease on top of this but are not a replacement.

Technology is at the center of business today, and software is at the center of technology. In this climate, the future belongs to the swift. Juniper Networks is solving the hardest cloud-native infrastructure problems at scale and with simplicity.

While there are many examples of portable developer middleware, popular DevOps software-defined infrastructure includes Terraform for infrastructure as code; Docker and Kubernetes for cluster orchestration; Jenkins and Spinnaker for pipelines as codes; and Contrail for software-defined networking.

Juniper Networks automates connecting and securing at-scale orchestrators. By providing network policy enforcement with visualization and auditing, the Juniper solution includes security as a first-class citizen, enabling DevOps teams and developers to enforce network and security policy, maintain multi-tenancy, and easily show auditors that their applications are compliant.

An engineer and leader of multicloud solutions, Juniper Networks is uniquely positioned to help you get the most out of your DevOps journey.

[Download our guide to improving DevOps for more details.](#)

SOURCES

1. "451 Research: Application containers will be \$2.7bn market by 2020," 451 Research, Jan. 10, 2017