

DEMYSTIFYING DEVOPS

DevOps promises organizations that they can rapidly scale innovation while becoming more responsive and reliable. But in a market dominated by siloed point solutions, the road to DevOps can be complicated, and many organizations struggle to get far.

Whether you're a platform architect, a site reliability engineer, or an application developer, NetApp can help you navigate your path to DevOps with solutions to your biggest challenges.



Did You Know?

100%

of enterprises worldwide are investing in or evaluating DevOps to achieve faster business innovation and agility

47%

of enterprise apps are cloud native, running in VMs or containers on public or private clouds

Enterprises expect to use an average of **5 clouds** (public and private) by 2020

Source: IDG Research

Choose Your Path

There are no shortcuts to DevOps, but knowing where to start can save you a lot of time. Understanding the problems that you need to solve can put you on the right path to accomplishing your goals.

Use this interactive guide to navigate your DevOps journey. Click on the boxes to learn more.

“I spend too much time solving infrastructure problems.”

Managing a few servers used to be a full-time job. Now, you're expected to spin up hundreds of instances in minutes. It's impossible to achieve cloud-native scale with traditional, manual processes for infrastructure, deployment, security, and network configuration.

You need the ability to provision storage on demand to support data scalability and multisite collaboration. Without agile operations, agile development comes to a standstill.

Sound familiar?

- Infrastructure is inflexible and procurement is too slow.
- I'm spending too much time on infrastructure and storage issues.
- I need to minimize costs at scale.

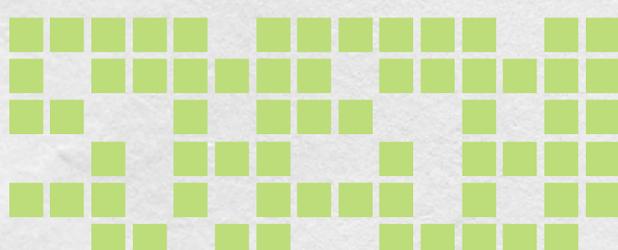
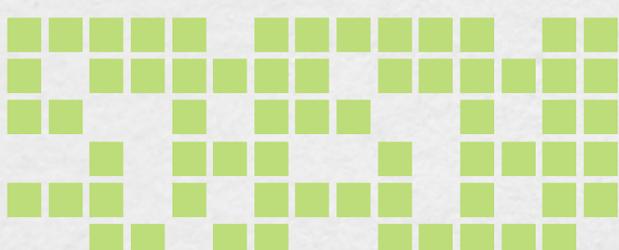
“Interruptions are a pain. I just want to get my job done.”

A traditional development lifecycle is a series of manual migrations. Provisioning to development. Development to testing. Testing to production. And production back to the drawing board. Every step in the process breaks creative flow, costs money in lost productivity, and slows time to market.

In addition, stateful, data-rich applications demand persistent storage to ensure that they operate reliably at scale without breaking.

Could this be you?

- We're moving to containers and need to deploy Kubernetes.
- I need to enable parallel DevOps workflows without adding complexity.
- We can no longer just “move fast and break things.”



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“I spend too much time solving infrastructure problems.”

The Solution: Everything as Code

If you have a manual process and it's something you have to do more than once, the mantra is: Automate it. Code it. Not just application code or test and deployment configurations—code everything. By treating everything that developers need as code, you get a standardized, controlled way to onboard projects, applications, and teams.

Everything as Code (EaC) is essential to a successful container strategy. Without it, you'll have too many containers and clusters to administer manually and you will never achieve cloud-native scale. Automation through EaC is the only way to increase your server- or container-to-admin ratio. Having everything checked into a source control management system, such as Git, as well as version control, allows you to always have a “last known good configuration” point for your entire platform, applications, and infrastructure.

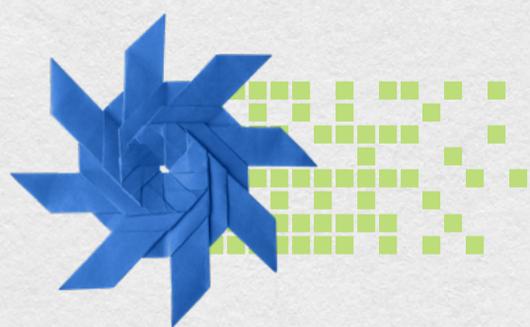
CUSTOMER SUCCESS

“When we started to look at DevOps, I didn't think it could be done. I thought our environment was too complex. But as we started automating pieces of our environment, I became a believer.”

Jesus Pinto, Systems Engineer
Hughes Network Systems

Learn how Hughes Network Systems is fueling rapid growth into new global markets and bringing new enterprise services to market faster with DevOps.

[> Read the case study](#)



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“Interruptions are a pain. I just want to **get my job done.**”

The Solution: DevOps Pipeline

In this uncertain world, you need to be able to pivot quickly and be agile with your resources. That’s not always achievable with traditional infrastructures that depend on manual processes that are not optimized for stateful applications. You need a DevOps pipeline that seamlessly weaves together provisioning, development, testing, and deployment. To iterate faster, developers need every process to be self-service, automated, and on demand.

NetApp offers API-first infrastructure with deep integrations and built-in automation so that you can quickly set up your pipeline and take advantage of Kubernetes containers and third-party applications. And no one does storage persistence and cloud native like NetApp. We can help you build an enterprise-ready DevOps pipeline for data-rich, stateful applications that integrate seamlessly with the world’s largest clouds.

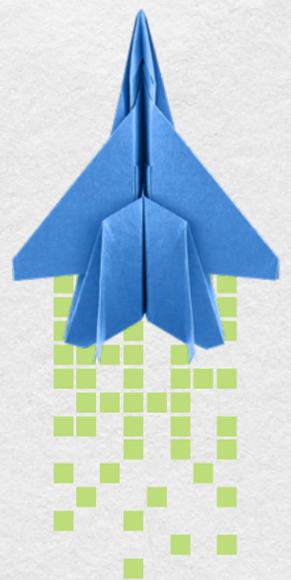
CUSTOMER SUCCESS

“With Trident, we were able to solve for persistent storage quickly and painlessly. We scheduled an afternoon to get Trident up and running, and we were done in less than an hour.”

Jeff Spahr, Infrastructure Architect
Bandwidth

Learn how Bandwidth implemented a cloud-native container orchestration platform with Kubernetes and NetApp Trident.

[> Read the case study](#)



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