## NS1

### The Top 3 Emerging Challenges in **Application Delivery**

And how to solve for them through digital transformation and IT modernization

The world is powered by applications, and our

dependence on them has only increased during the pandemic. Even as we return to learning, working, shopping, and gathering in person, digital channels will remain critical.

Delivering applications reliably and securely has never been more important to your business objectives, yet it's also growing increasingly challenging to achieve. Here are 3 reasons why, as well as how to solve for them through digital transformation.



1 in 4 shoppers will abandon a cart if it takes 4 seconds to load.



On mobile, 74% will abandon after just five seconds of waiting for a website to load.1

infrastructure<sup>2</sup>

Over 80% of businesses now find it challenging to meet

application delivery requirements with their existing IT

#### Than Ever, and Won't Tolerate Poor Performance Application audiences are evolving. They are:

Challenge #1: Audiences are More Distributed





business partners, to connected devices and services

**More Diverse** Customers, employees, supply chain and





variety of devices, on a variety of networks (WiFi, 4G, 5G, etc)



emergency services and utilities, reliable application delivery is a matter of life and death.



poor application experiences translate directly to revenue loss at a massive scale.



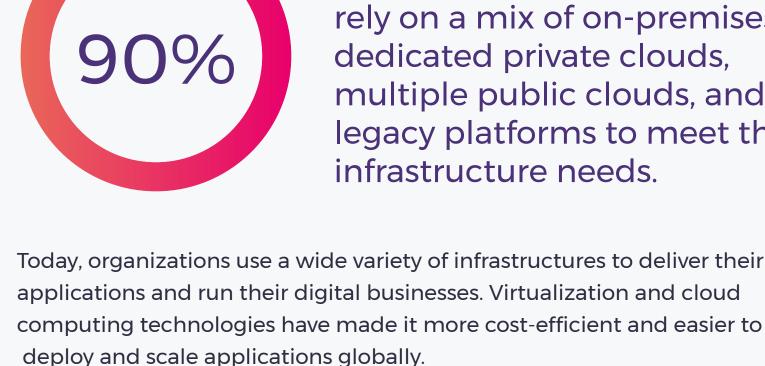
devices to increase efficiency, manage costs, and boost productivity to meet global demand.

# By 2022, over 90% of

**Are Only Growing More Complex** 

enterprises worldwide will

Challenge #2: Delivery Environments

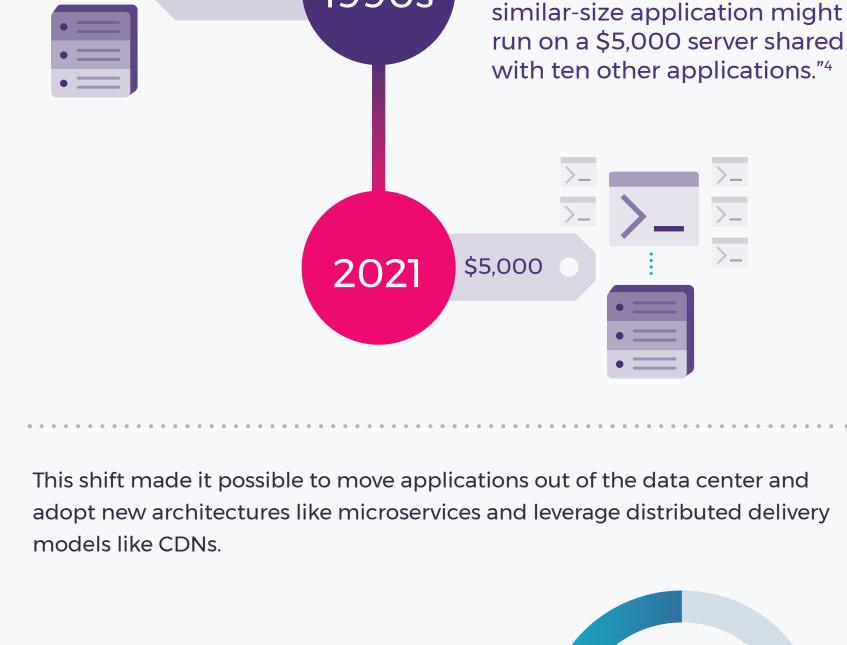


rely on a mix of on-premises, dedicated private clouds, multiple public clouds, and legacy platforms to meet their infrastructure needs. Today, organizations use a wide variety of infrastructures to deliver their applications and run their digital businesses. Virtualization and cloud

"Twenty years ago a single application might run on a \$25,000 server. Today, a

1990s

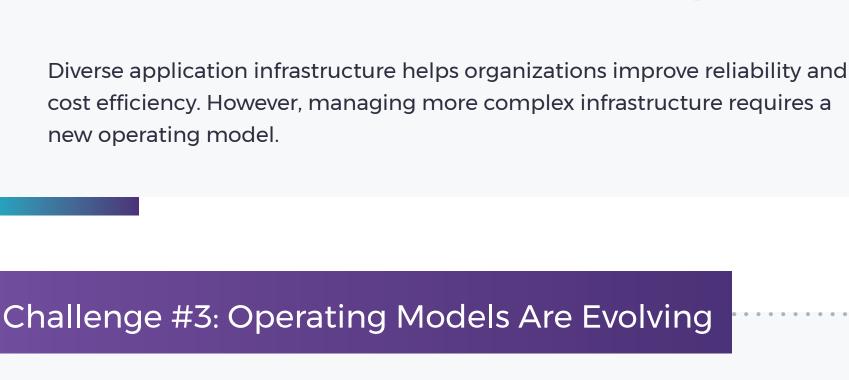
\$25,000



cost efficiency. However, managing more complex infrastructure requires a new operating model.

By 2022, CDNs will carry

77% of internet traffic

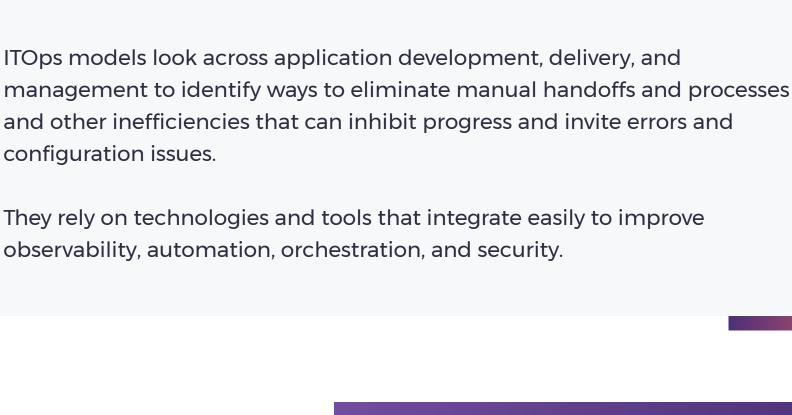


innovation through automation and orchestration while also improving quality and efficiency. These include:

**ITOps** 

In the digital economy, things move quickly. Technology organizations are

embracing new operating models that focus on accelerating the pace of



**SecOps** 

CloudOps

#### How to Meet These Challenges Through Digital Transformation

DevOps

**NetOps** 

We are at a tipping point where legacy technologies have reached the limits of accommodating these shifts. While transformation is complex, the cost of inaction outweighs the pain of action.

According to Gartner, digital transformation

is no longer a means for business growth, but

rather business survival.6 Organizations that continue to rely on outdated foundational network technologies will continue to run up against significant barriers to innovation

across applications, audiences, infrastructure and data.

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undertaking digital transformation and IT modernization? Check out our whitepaper, Your Business Depends on Eliminating Boundaries Between Applications, Users, Infrastructure, and Data, to learn more.

percent-in-2021

content-delivery-networks-video-streaming.html

So what initiatives should organizations prioritize when

<sup>6</sup> https://www.gartner.com/en/newsroom/press-releases/2020-10-20-gartner-says-worldwide-it-spending-to-grow-4-

<sup>&</sup>lt;sup>1</sup> https://loadstorm.com/

<sup>&</sup>lt;sup>2</sup> https://resources.nsl.com/offer-wp-meeting-application-and-access-network-modernization-challenges

<sup>&</sup>lt;sup>3</sup> https://www.idc.com/getdoc.jsp?containerId=prMETA46165020 <sup>4</sup> https://www.mckinsey.com/business-functions/mckinsey-digital/our-insights/how-cios-and-ctos-can-acceleratedigital-transformations-through-cloud-platforms <sup>5</sup> https://www2.deloitte.com/us/en/insights/industry/technology/technology-media-and-telecom-predictions/2020/