

Want to Thrive in the Digital Economy?

Accelerate Trusted Distribution of Innovation Everywhere

Success in digital transformation requires a scalable and robust **Software Distribution platform** to deliver innovative applications, code and microservices from data centers, to edges, and onto embedded devices and "things":

A New "Species" of Enterprise is Emerging: The Digital Innovation Factory

Evolve or die:

Digital-first enterprises deliver **8X revenue growth** and **2X margin profit** compared to other enterprises

Software and code drive the economy:

65% of global GDP will be digitalized by 2022

Enterprises must become prolific software producers, creating and deploying digital products and services at digital-native speed and scale.

Software Production Milestones:

By 2024, there will be more than **520 million** new modern apps/services

By 2025, **60%** of enterprises will deploy code to production daily or faster — meaning even more frequent deployments to lower environments and to internal repositories throughout the software development lifecycle (SDLC).

Sources: IDC, *The Future of Digital Innovation: Every Enterprise Must Become a High-Performance Software Producer*, # US45720719; and IDC FutureScape: *Worldwide Datacenter 2020*, # US44747919

Enterprises Need to Become Software Distribution Experts

Software distribution is a critical part of your delivery process. Once applications are developed, **software components - artifacts - need to be securely and reliably distributed** to all internal and external stakeholders and **consumption points**:

1. Internal repositories.

Distribution to developers across global sites and CI servers for continued development and testing.

2. Machines.

Runtime environments and infrastructure edges and "things" where applications are deployed.

3. External/ecosystem repositories.

Drivers, OSS components, and other binaries for consumption by the developer ecosystem, partners and customers.

By 2025, **60%** of the G2000 will have third-party developer ecosystems that distribute components/artifacts to/from internal/external repositories (partners, customers, channels, developer ecosystems).

Distribution speed impacts delivery speed.

Rapid development and deployment, infrastructure and edge explosion, and increased adoption of cloud-native and embedded apps slow down distribution due to network utilization, security, and complex topologies' overhead.

Failure to address distribution bottlenecks is a major risk to businesses.

Slowing down software delivery delays innovation, increases security risks, and results in loss of revenue.

Source: IDC, *Preparing for the Digital-First Economy: The Hyperscale, Hyperspeed, and Hyperconnected Enterprise*, # DR2020_GS2_FG, March 2020.

Extending Digital Reach to the Edge and Beyond Further Complicates Distribution

Enterprises need to run applications closer to the customers to deliver optimal digital experiences. Enterprises' reach must span core datacenters and cloud/multi-cloud environments, as well as the exponentially growing numbers of local edges and embedded devices that are part of IoT efforts.

50% of new infrastructure

will be deployed to the edge (outside of corporate core datacenters) by 2023

7 million new edge locations

38 billion new things by 2021

80% of edge workloads are created with container/microservices to improve digital service resiliency

Software assets may now be more weighty — due to the adoption of cloud-native and embedded devices — and **clog the network** as they need to be distributed more frequently across vastly complex infrastructure footprints.

Sources: IDC, *Preparing for the Digital-First Economy: The Hyperscale, Hyperspeed, and Hyperconnected Enterprise*, # DR2020_GS2_FG, March 2020 and IDC FutureScape: *Worldwide Datacenter 2020 Predictions*, # US44747919

Meet Future Needs and Overcome the Bottlenecks in Modern Application Delivery with Trusted Distribution

Essential Guidance for Organizations

Look for solutions that enable consistent and secure apps/software distribution everywhere — across expanding locations and usage models from cloud to edge

Ensure that trust is built into app/artifacts from creation, to distribution, to updates — by adopting security scanning, access control, and traceability measures

Consider solutions that eliminate distribution bandwidth bottlenecks throughout the lifecycle for complex/widely distributed apps/artifacts and cloud-native or embedded compounded assets

Look for solutions that provide flexible, fast, and secured distribution mechanisms across internal/external repositories and runtime environments at the edge of the business.

Message from the Sponsor

Software Distribution for Modern Digital Innovation Factories

The distribution of software artifacts through your SDLC process to your target endpoints is getting more and more complex, and considerably slower.

When your remote offices around the world can't get their hands on the most recent builds fast enough for continued testing, when your infrastructure nodes can't download BOMs of thousands of GBs of container images in order to start a deployment, or when your customers and developer ecosystem can't download your recent drivers, plugins or OSS in a reliable manner — developer productivity and release velocity suffer.

Enterprises need a simple, scalable, fast, hybrid solution for internally distributing software artifacts globally — across internal repositories, external ecosystems, and to runtime and edge environments. Software innovation depends on it.

Learn more about **accelerating your trusted software distribution** with the **JFrog DevOps Platform**.