

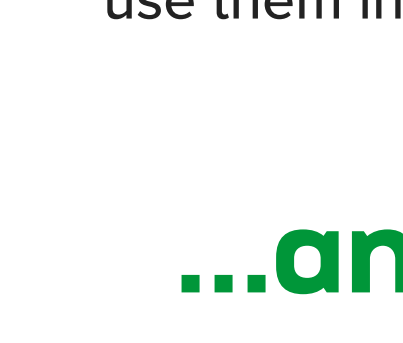
KUBERNETES 101

What is the Kubernetes data plane?

(And why is it crucial to the success of your apps?)



The world is going mad for microservices...



60%

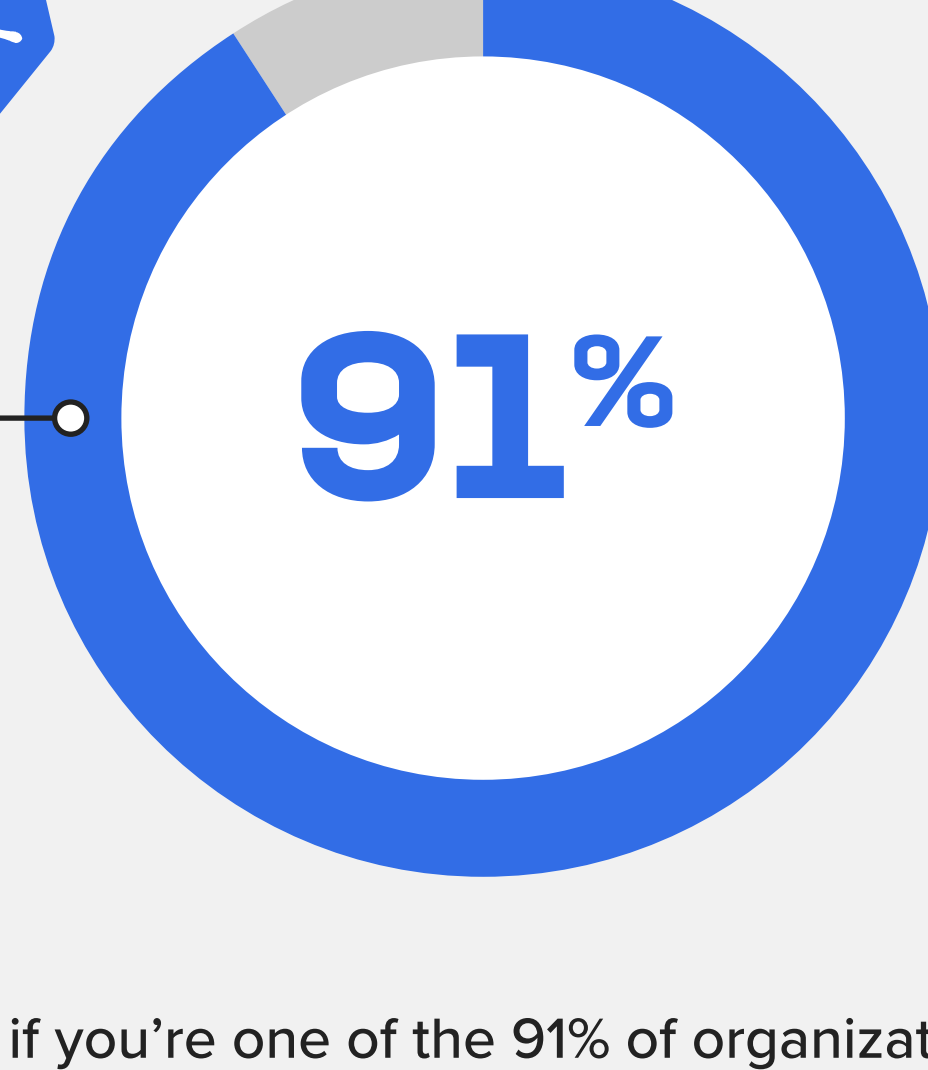
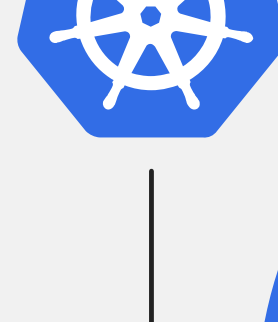
60% of enterprises use them in production.



80%

Over 80% of new workloads are deployed in containers.

...and crazy for containers.



So, if you're one of the 91% of organizations using Kubernetes as their orchestrator of choice...

...you need to know why the data plane matters.

The what?!

It's one of the 3 main components of a Kubernetes environment (and arguably the most important).

01

If the **management plane** is the **arms and hands of the environment...** (where administrators interact with Kubernetes)

02

...and the **control plane** is **the brain...** (that manages things like clusters, nodes, pods, and the networking among them)

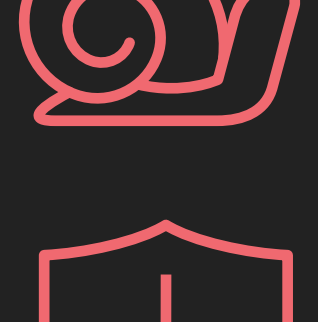
03

...then the **data plane** is **the body...** ...where the real work gets done. (Traffic is moved from A-B-Z among nodes, pods, containers, and application services).

The data plane does the heavy lifting, managing traffic between your apps, and needs to be top class.

Because, whatever happens in the data plane directly impacts your apps.

If the data plane...



Is slow >>> your apps are slow.



Isn't secure >>> your apps aren't secure.



Is complex >>> your apps are harder to manage.

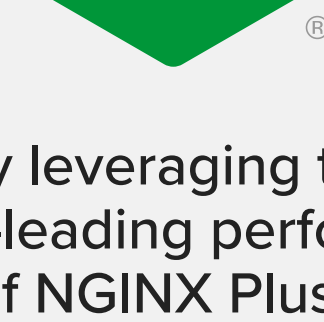
Because it doesn't matter how fast your brain (the control plane) wants to move if your body (the data plane) can't keep up.

Plus, the data plane is the last component to touch traffic before your application takes over...

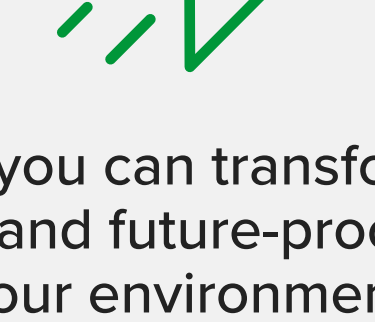
...which means it needs to be up to the task if you intend to enforce end-to-end encryption.

In short, the data plane directly affects the resiliency, security, cost of ownership, and overall success of every application in Kubernetes.

So, let's take a look at an enterprise-ready data plane.



By leveraging the market-leading performance of NGINX Plus...



...you can transform and future-proof your environment...

to achieve

Production-Grade Kubernetes.

With a unified data plane including an integrated ingress controller, WAF, and (when you're ready for it) a service mesh...

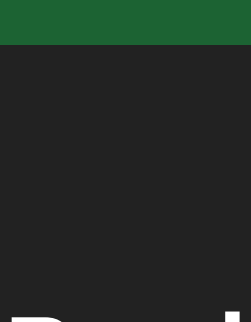
NGINX puts you in control



so you can deliver apps with agility and speed...



...with better resiliency, visibility, scalability, and security...



...and with less complexity (compared to standard tooling).

Ready to take control of your data plane and transform your applications the easy way? Find out more about NGINX for Kubernetes.

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