Solution Brief:

DYN SECONDARY DNS

ORACLE® + Dyn

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Dyn Secondary DNS

Your Digital Business Depends on DNS

Overview:

DNS is a critical component to ensuring online sites and services remain available, and that end users are able to connect to those services as quickly as possible. With revenue-generating web applications, customer satisfaction, and employee productivity all dependent on DNS, you can't afford to have your DNS service unavailable or underperforming for any amount of time.

Dyn's cloud-based Secondary DNS solution serves as a redundant complement to your existing DNS service to ensure your most critical applications remain available and that end users reach those applications faster than with any other solution. Secondary DNS sits on top of our global anycast network that delivers industry-leading response times worldwide, as well as 24/7 protection against Distributed Denial of Service (DDoS) attacks at the DNS layer.
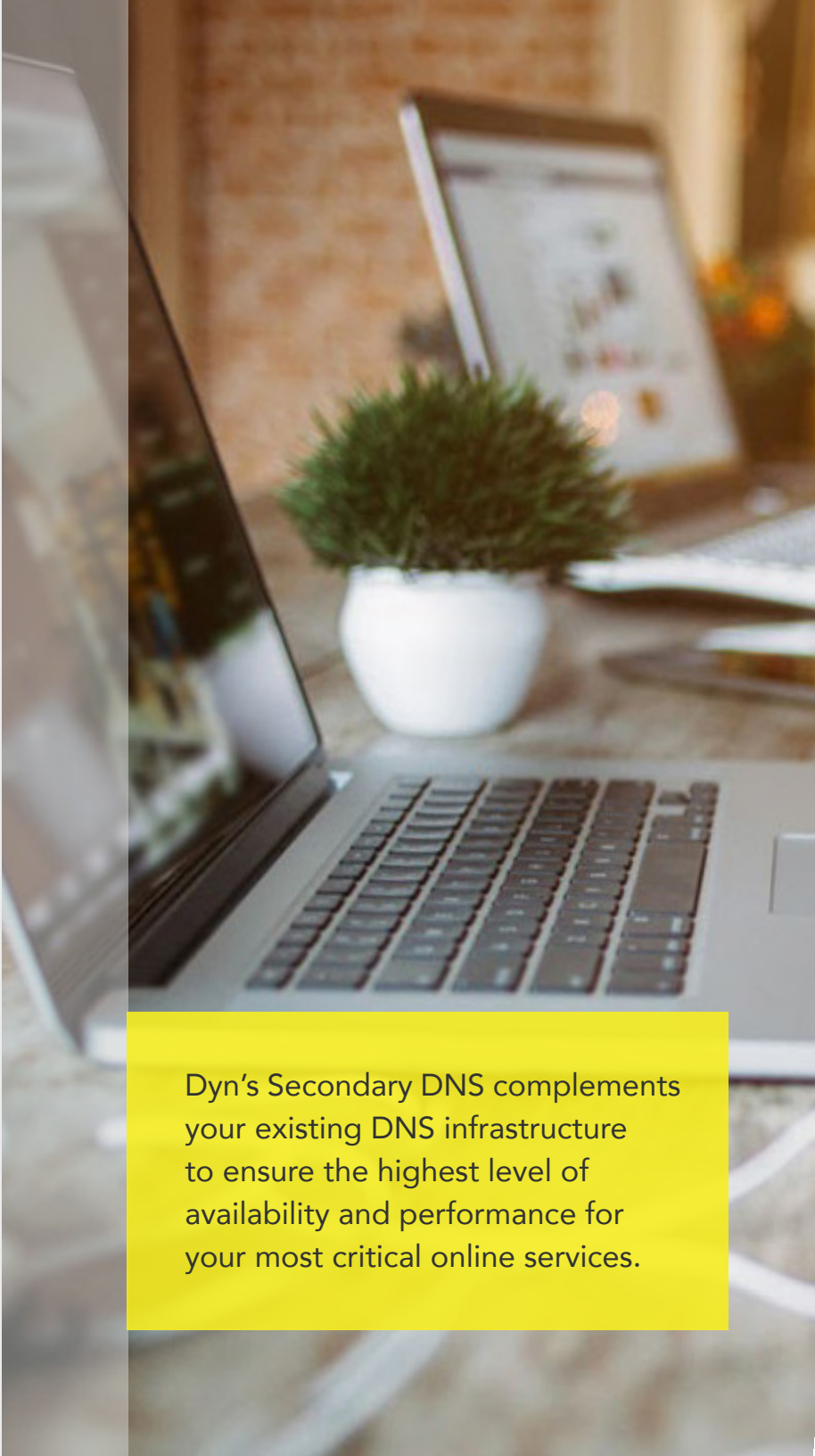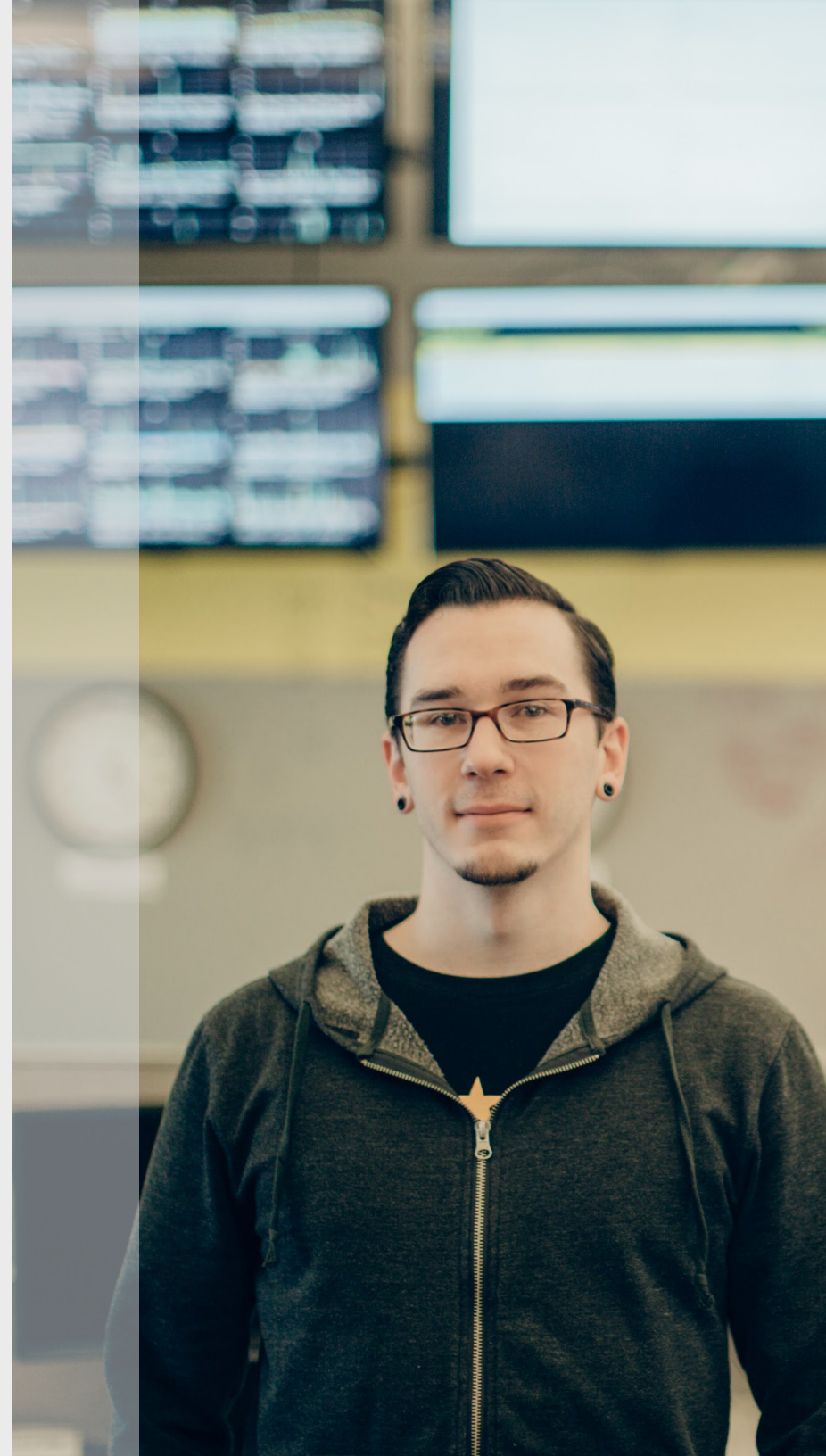
How it works:

Secondary DNS (sometimes referred to as multi-DNS) operates in an "always on" manner to complement your existing infrastructure as an additional authoritative DNS service. When an end user's recursive server initiates a DNS request, both the "primary" DNS service and the "secondary" DNS will respond as soon as they receive the request. The response that reaches the recursive server first will be passed back to the end user, completing their request.

This process effectively creates a race to respond to each incoming DNS request, ensuring performance can only improve. All domain information will continue to be managed within the primary DNS service in the same manner in which this information is configured today. This information will then be synchronized with the secondary service (using one of many supported protocols) to ensure both solutions are returning the same information to end users.

Secondary DNS reduces the risk of outages to critical services while also protecting against delays while connecting to these services as any degradation on either DNS service will simply result in the alternative service winning the majority of the races to respond to incoming requests. This proves especially effective in the face of DNS-based DDoS attacks that often linger for days if not properly mitigated, bringing end user performance to a crawl before potentially rendering the services unavailable.

Dyn's Secondary DNS complements your existing DNS infrastructure to ensure the highest level of availability and performance for your most critical online services.

Benefits:

Complement existing DNS infrastructure – No need to replace your existing DNS infrastructure. Our cloud-based Secondary DNS solution complements your existing service, providing the redundancy needed to ensure high availability for all of your online services.

Reduce outages to critical services – By maintaining DNS resolution even if one solution suffers catastrophic failure, your risk of outages to critical services is dramatically decreased.

Improve DNS resolution performance – With dual providers "competing" for resolution, your DNS resolution performance will be increased, and you benefit from the quickest response time.

Maintain business continuity and reduce risk – Ensuring your online services are "findable" by users means less risk for you, and greater continuity for your customers.

Always-On DNS – Run an active-active, multiple DNS configuration that competes for the fastest response across a global network.

Want more information on how Secondary DNS can benefit your organization? Read our Ebook:

High Availability DNS Reduces Downtime and Improves End-User Experience

Rethink DNS.

Oracle Dyn is global business unit (GBU) focused on critical cloud infrastructure. Dyn is a pioneer in DNS and a leader in cloud-based infrastructure that connects users with digital content and experiences across a global internet. Dyn's solution is powered by a global network that drives 40 billion traffic optimization decisions daily for more than 3,500 enterprise customers, including preeminent digital brands such as Netflix, Twitter, LinkedIn and CNBC. Adding Dyn's best-in-class DNS and email services extend the Oracle cloud computing platform and provides enterprise customers with a one-stop shop for infrastructure as a service (IaaS) and platform as a service (PaaS).

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