

OneLogin HydraBoost

Industry-Leading Authentication at Scale

In today’s hyper digital world, organizations must be able to seamlessly and securely handle large influxes of user logins across their different web services. Whether businesses are preparing for Black Friday or for a highly anticipated product launch, they must ensure that their systems are prepared to handle large increases in login traffic so as not to miss out on potential revenue opportunities.

OneLogin HydraBoost

OneLogin HydraBoost leverages our Hydra Cloud Infrastructure™ to easily scale and handle over 1 million authentication requests per minute without impacting the end user experience. This demonstrates an unprecedented level of horizontal scalability for Identity & Access Management (IAM), empowering DevOps teams to handle anticipated and unanticipated traffic spikes without having to invest in infrastructure development in-house.

Achieving new levels of horizontal scalability with OneLogin HydraBoost

Whereas other IAM solutions support around 2,500 - 8,500 authentication requests per second, OneLogin’s HydraBoost can support over 17,000 authentication requests per second - that’s over 1 million requests per minute. With two Hydra regions in the United States, each with its own Login Cluster, we are able to handle 2 million requests per minute for a single tenant, if evenly distributed. As we can continue to deploy additional login clusters to each region, that number will double to 4 million requests per minute from a single tenant.

Figure 1

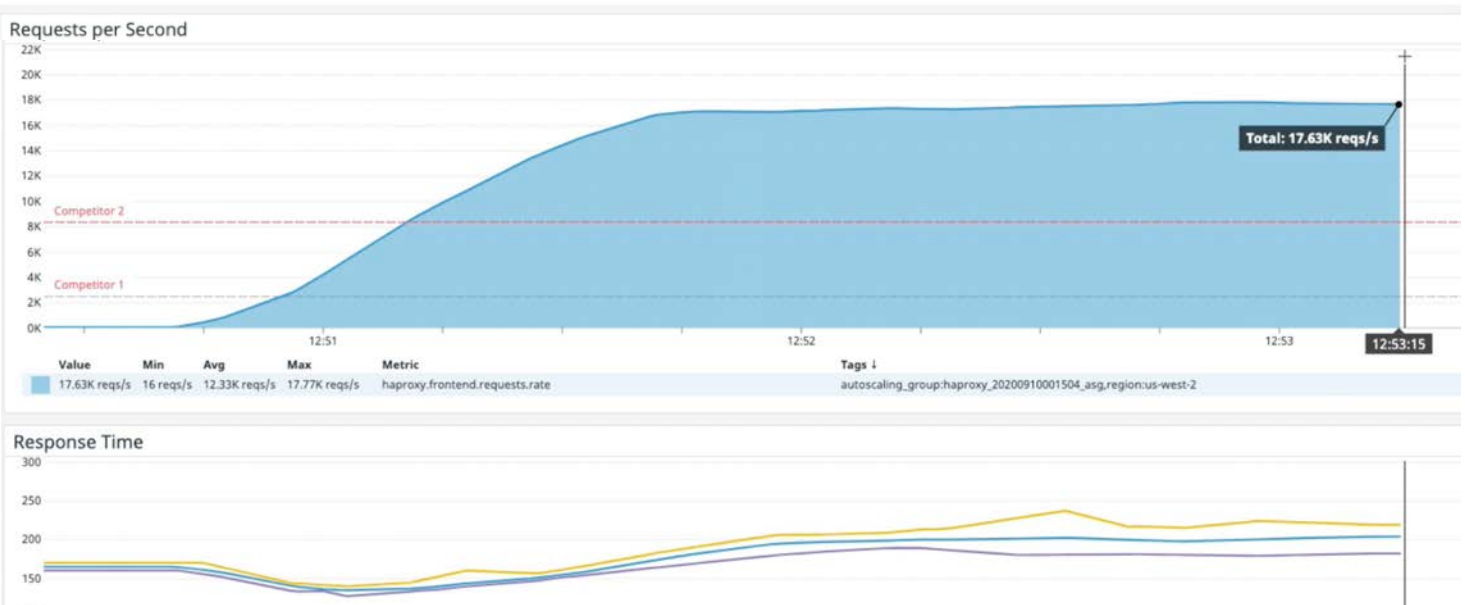


Figure 1: The diagram above demonstrates a test of HydraBoost against our production environment during normal business hours. The top chart shows the number of authentication requests per second over time. The second chart represents the response time with three lines: minimum, maximum, and average. As shown, we can surpass the limitations of two competitors with the response time largely unimpacted under the increased load. As a result, we are able to achieve 1 million authentication requests per minute in a single cluster against a production tenant, without affecting any other tenants, and at a rate which we can sustain over time.

How does OneLogin HydraBoost work?

In each layer of our infrastructure, we can automatically add or remove another service, proxy, or DB node within one login cluster, providing added scale. We can also scale out the load by adding additional login clusters. These clusters are completely independent, yet connected to the whole system. Additionally, it provides another level of reliability and resiliency as each of these login clusters can take the load of another or redistribute traffic between them. Combined with the multi-tenant feature of our Hydra architecture, we can provide resources from any of the login clusters to any tenant.

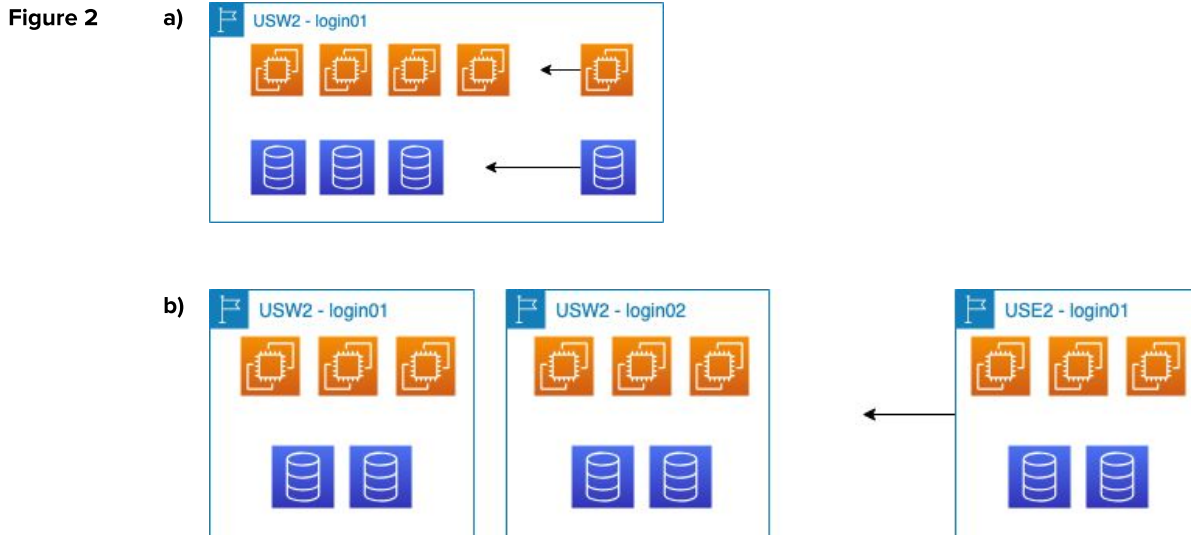


Figure 2a: This diagram represents “scaling out nodes in a cluster”, where it automatically adds or removes various nodes, such as services, proxies, and databases, in the cluster.

Figure 2b: This diagram depicts “scaling out login clusters” by automatically adding a new login cluster.



What is OneLogin’s Hydra Cloud Infrastructure™?

OneLogin’s Hydra Cloud Infrastructure combines the strengths of our architecture with modern site reliability and scaling approaches—including containerization, microservices, orchestration, service mesh, dynamic clustering and routing, etc.—to achieve new levels of site reliability and performance.

**HydraBoost is just one of many benefits of our Hydra Cloud Infrastructure*

Want to learn more?

[View the full demo](#) of OneLogin Hydraboost or contact info@onelogin.com to connect with a OneLogin platform expert.

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Over 2,500 enterprise customers globally secure their applications with OneLogin



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