

Reaching Nirvana

In this lesson, we will discuss the benefit of using HPA with Standard and Custom Metrics and how it helps us to reach one step closer to nirvana.

WE'LL COVER THE FOLLOWING



- Benefit of **HPA** with standard and custom metrics
- One step closer to nirvana

Benefit of **HPA** with standard and custom metrics

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Now that we know how to add almost any metric to **HPAs**, they are much more useful than what it seemed in the [Autoscaling Deployments and StatefulSets Based On Resource Usage](#) chapter. Initially, **HPAs** weren't very practical since memory and CPU are, in many cases, insufficient for making decisions on whether to scale our Pods. We had to learn how to collect metrics (we used **Prometheus Server** for that), and how to instrument our applications to gain more detailed visibility. **Custom Metrics** was the missing piece of the puzzle. If we extend the “standard” metrics (CPU and memory) with the additional metrics we need (e.g., **Prometheus Adapter**), we gain a potent process that will keep the number of replicas of our applications in sync with internal and external demands. Assuming that our applications are scalable, we can guarantee that they will (almost) always be as performant as needed. There is no need for manual interventions any more, at least when scaling is in question. **HPA** with “standard” and custom metrics will guarantee that the number of Pods meets the demand, and Cluster Autoscaler (when applicable) will ensure that we have the sufficient capacity to run those Pods.

One step closer to nirvana

Our system is one step closer to being self-sufficient. It will self-adapt to changed conditions, and we (humans) can turn our attention towards more

changed conditions, and we (humans) can turn our attention towards more creative and less repetitive tasks than those required to maintain the system in the state that meets the demand. We are one step closer to nirvana.

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If we extend the “standard” metrics with the additional metrics we need, we gain a potent process that will keep the number of replicas of our applications in sync with internal and external demands.

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In the next lesson, we will revise and test the concepts of this chapter through a short quiz.