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MANAGED KUBERNETES

Lambda's fully-managed Kubernetes offering builds on the power of our Reserved Cloud clusters. We install and maintain a Kubernetes installation on your cluster, run most daily operational tasks, and handle cluster and hardware failures—allowing you and your team to focus on using the cluster rather than operating it.

OPERATIONAL EASE

Lambda's world-class engineering team will deploy, run and operate our reference Kubernetes architecture designed for AI, machine learning and GPU workloads.

This includes:

- Kubernetes installation and upgrades
- Control plane maintenance and high-availability
- NVIDIA GPU Operator installed and configured to deploy and manage NVIDIA GPUs in a Kubernetes cluster
- · Detecting node failures, node pool adjustment and failed hardware replacement
- · Gathering chassis and cluster metrics and proactive monitoring

In return for allowing us to take full control of the hardware, you will get a fully-managed experience, with access to the Kubernetes API, graphical dashboard, and other components pre-configured:

- Ingress controllers and certificate management
- Service mesh & Internal cluster DNS
- Workload monitoring and metrics
- Flexible pod networking including RDMA/Infiniband
- Jupyter notebooks with SSL access

We're also able to advise on installing other tooling on the cluster, such as Ray, Run:ai, and Weights and Biases, as well as how to integrate authentication with your own systems. Our product roadmap includes adding even more available components and services through the end of 2024.

SINGLE-TENANT SECURITY

Your cluster will remain single-tenant and all Kubernetes and fleet management components will remain local.

Nothing inside of the cluster will be exposed to the Internet unless you choose to—by default, all access is over a secure VPN, including to the Kubernetes API and dashboard. Lambda will maintain access in order to run monitoring, alerting, and perform proactive fixes when we notice issues.

Single-tenancy also means you get flexibility as to when we do upgrades and to which versions; we'll work with you to establish maintenance windows and your preferred upgrade cadence.

We perform any critical upgrades to cluster components based on security issues, and can add image restriction policies on request.

Lambda will proactively monitor your cluster 24x7 and attempt to fix issues as soon as possible—resolution times vary by issue type and severity. All clusters are located in datacenters where Lambda have 8x5 continuous presence and 24x7 on-call availability.