

## 4.7 การตรวจสอบค่า Metrics ต่างๆ ผ่าน Grafana

Objective: ให้ Student ทำการทดสอบตรวจสอบ ค่า Metrics ต่างของ workload ที่ถูกติดตั้งด้วย Grafana

NKP offers centralized observability for Kubernetes environments with 27 built-in Grafana dashboards and support for custom dashboards, enabling comprehensive monitoring and management across multi-cloud and hybrid setups.

### Did You Know?

Grafana is included only with NKP Pro and Ultimate licensing.

In this exercise, you will explore Grafana dashboards to examine the WordPress application you previously deployed.

Re-Run วิธีการเข้าใช้งาน ด้วยหัวข้อ 4.1

1. Navigate to your specific project where the WordPress application is deployed.

The screenshot shows the NKP (Nutanix Kubernetes Platform) web interface. At the top, there's a header with 'NKP Ultimate' on the left, a 'Default Workspace' dropdown in the center, and a user profile 'AdminUser01' on the right. Below the header is a sidebar with navigation links: Dashboard, Clusters, Projects (which is highlighted with a blue background), Applications, Insights, Administration, Infrastructure Providers, Access Control, Support, and Get Started. A purple callout labeled '1' points to the 'Default Workspace' dropdown. The main content area is titled 'Projects'. It features three cards under the heading 'Costs': 'Costs: Last 1 Day' (25 Dec 2024 – 26 Dec 2024), 'Costs: Last 7 Days' (19 Dec 2024 – 26 Dec 2024), and 'Costs: Totals' (Last 1 Day | 25 Dec 2024 – 26 Dec 2024). Below these cards is a search bar with 'Filter by Name or Namespace' and buttons for 'Costs', 'Last 1 Day', and 'Last 7 Days'. A table lists projects: 'user01' (No description provided, Clusters: workload01, Applications: N/A). A purple callout labeled '2' points to the 'Projects' button in the sidebar, and another purple callout labeled '3' points to the 'user01' entry in the table.

2. Open the Grafana dashboard for the cluster assigned to your project to check monitoring metrics.

NKP Ultimate Default Workspace Adminuser01

Projects > user01

Edit Project

Dashboard

Clusters

Projects

Applications

Insights

Administration

Infrastructure Providers

Access Control

Support

Get Started

Online Documentation

Support Portal

Services & Training

Namespace Namespace Labels

user01 istio-injection: enabled

Applications Continuous Deployment (CD) Clusters Roles Role Bindings ConfigMaps Secrets Quotas & Limit Ranges

Network Policies

Filter by Name

| Name       | Type | Provider | Labels   |
|------------|------|----------|----------|
| workload01 | NKP  | Nutanix  | 4 labels |

View Details

Edit

Download kubeconfig

Grafana

Grafana Logging

Jaeger

3. The default dashboard on the homepage displays resource utilization for your NKP cluster. From there, navigate to the built-in workload dashboard to check compute resources

Home > Dashboards

Search or jump to... ⌘ ⌘+k

Home Starred Dashboards Explore Alerting Connections Add new connection Data sources Administration

1

Dashboards

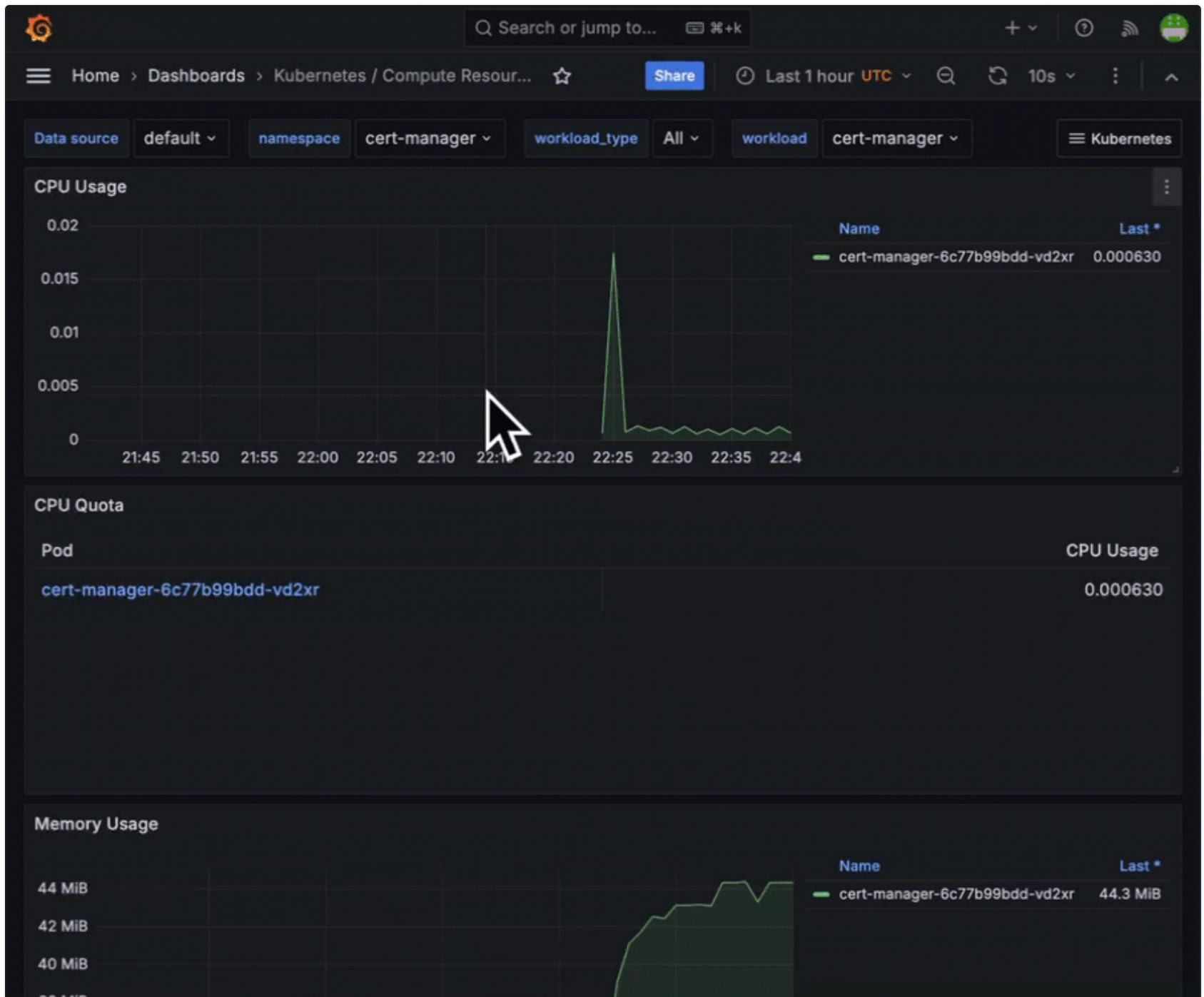
Create and manage dashboards to visualize your data

Search for dashboards and folders

Filter by tag Starred

| Name   | Tags             |
|--|------------------|
| Istio Service Dashboard                                | kubernetes-mixin |
| Istio Wasm Extension Dashboard                         | kubernetes-mixin |
| Istio Workload Dashboard                               | kubernetes-mixin |
| Istio Ztunnel Dashboard                                | kubernetes-mixin |
| Kubernetes / API server                                | kubernetes-mixin |
| Kubernetes / Compute Resources / Multi-Cluster         | kubernetes-mixin |
| Kubernetes / Compute Resources / Cluster               | kubernetes-mixin |
| Kubernetes / Compute Resources / Namespace (Pods)      | kubernetes-mixin |
| Kubernetes / Compute Resources / Namespace (Workloads) | kubernetes-mixin |
| Kubernetes / Compute Resources / Node (Pods)           | kubernetes-mixin |
| Kubernetes / Compute Resources / Pod                   | kubernetes-mixin |
| Kubernetes / Compute Resources / Workload              | 2                |
| Kubernetes / Kubelet                                   | kubernetes-mixin |
| Kubernetes / Networking / Cluster                      | kubernetes-mixin |

4. Analyze application-specific metrics by using filters within the namespace field with your project. This will allow you to observe the performance of the WordPress application and its MySQL database by selecting the respective workload.



In summary, Grafana in NKP provides flexibility through custom and community-driven dashboards, enhanced troubleshooting with multi-source data integration, and centralized access control for secure metrics governance. This comprehensive approach enables efficient monitoring and management of Kubernetes environments.

#### Pro tip

There are built-in Grafana dashboards to monitor K8s components in addition to user deployed workloads. The following dashboard is an example for checking the availability of the Kubernetes API server. You can also easily change the time interval.

