



**AKCP**  
Est. USA 1981

# QUICKLIME

**Data Center Optimization  
and Management**

# Quicklime - High Availability Monitoring

Quicklime is a powerful DCIM platform. Create a complete Digital Twin of your Data Center facility. Integrated **AI powered analytics** improve your data center efficiency. Harness the analog world of AI opinions with the digital world of sensor facts

## Realtime Visibility



Construct a Digital Twin of your data center with realtime insights for any assets at anytime. Connect sensors with assets for holistic view.

## Reduced Energy Costs



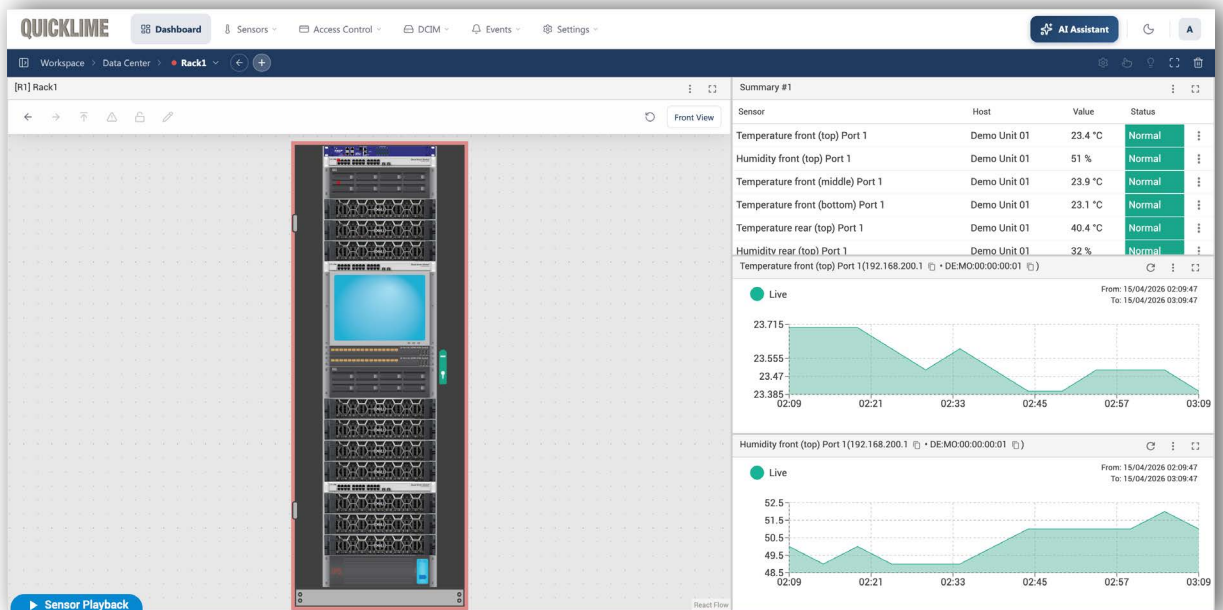
sensorCFD with AI Analytics produce a report that pinpoints what is wrong with your facility and how to improve it.

## Identify Stranded Capacity



Ensure maximum use of cooling capacity by comparing cooling capacity with IT loads and identify where stranded capacity can be released.

Integrate sensor data from AKCP and other sources via SNMP, Modbus, MQTTS and BACnet. Display the data on customized dashboards and rack maps of your assets.

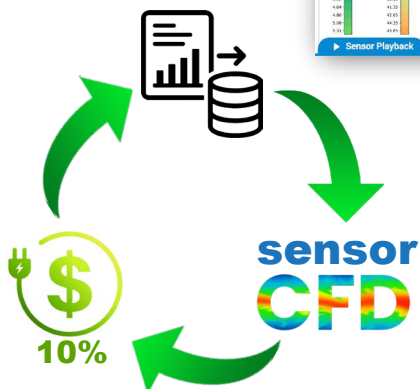
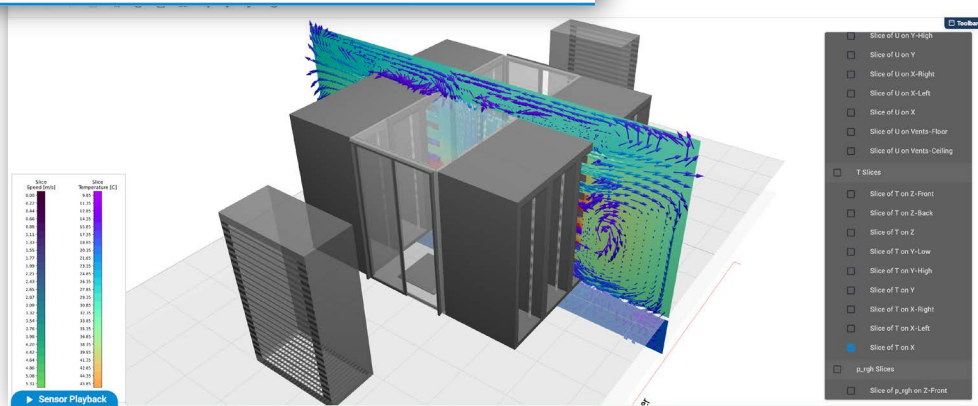
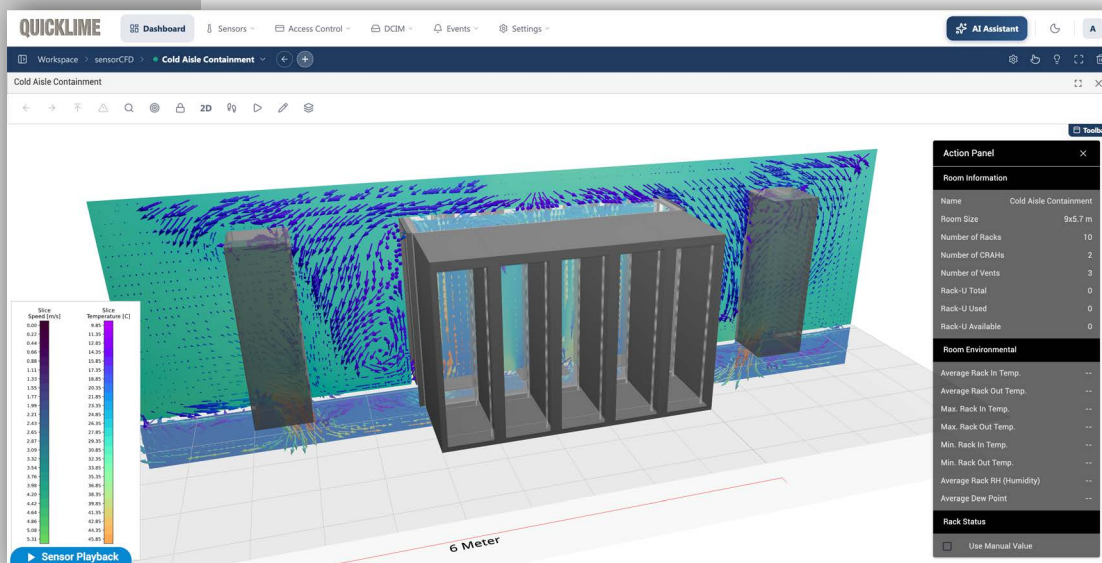


# Data Center Energy Optimization

**sensorCFD** is AKCP's proprietary patent pending technology that utilizes sensor data as the input to the CFD (Computational Fluid Dynamics) simulation.

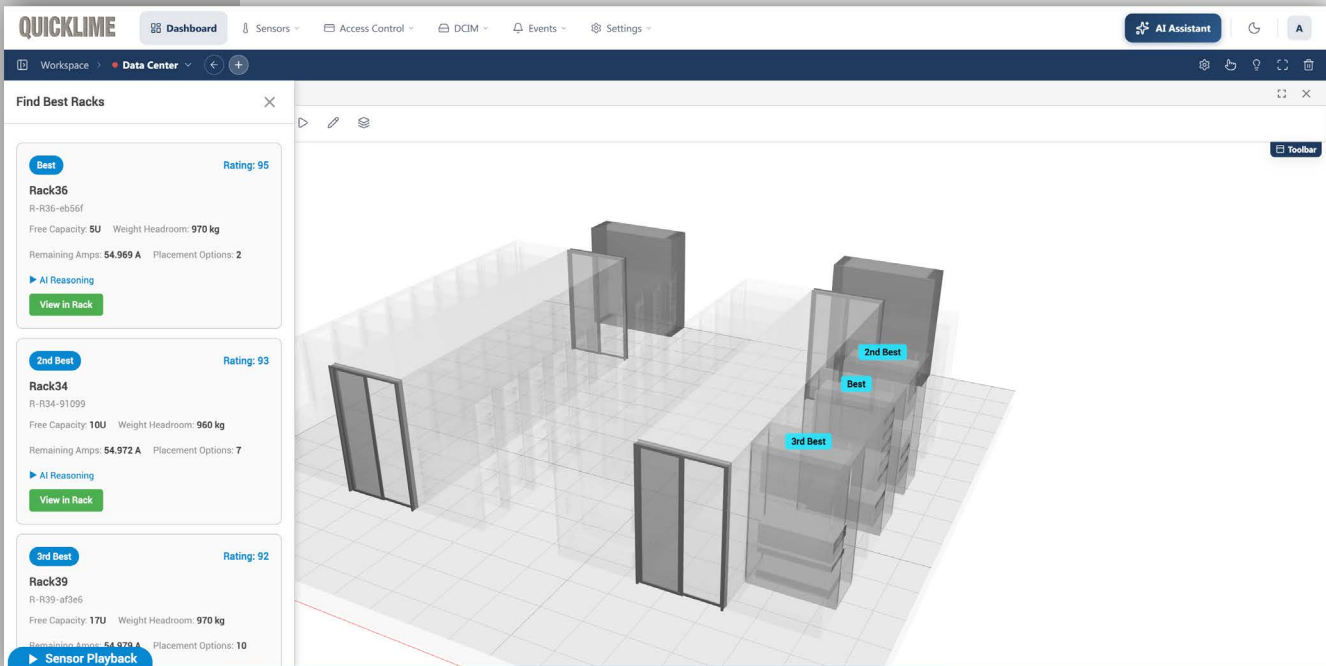
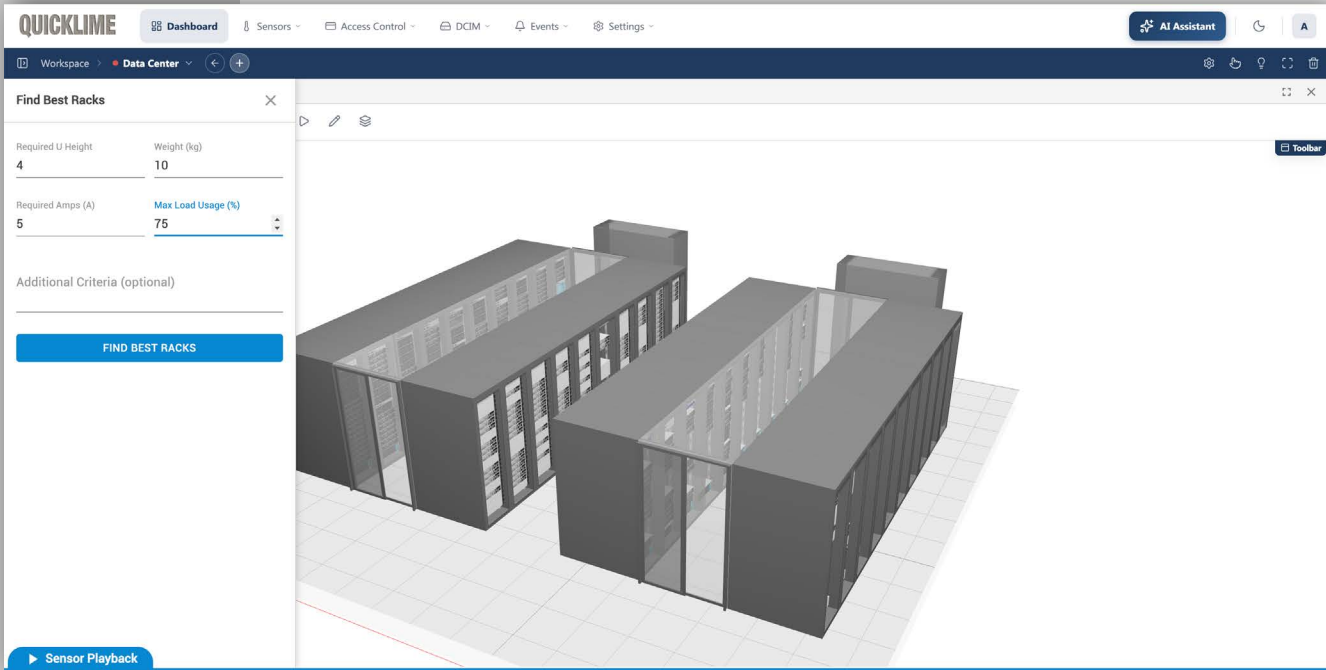
Quicklime's AI engine analyzes each CFD model, identifies problems and most importantly identifies the cause and the actions to be taken. Spend your time optimizing your facility, not figuring out what is wrong.

**Imagine having a CFD expert and Data Center designer on hand 24/7. That is the power of sensorCFD-AI**



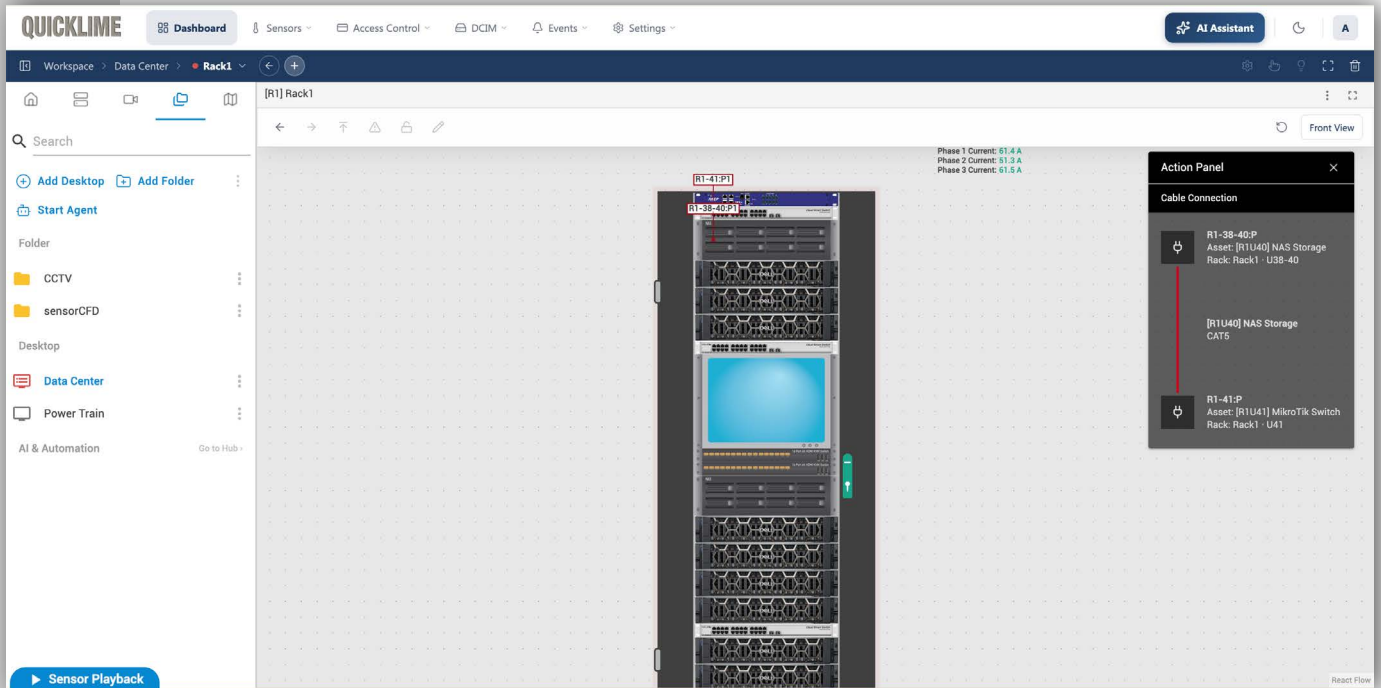
# Capacity AI

Ever needed to add more servers and need to find where to place them? Capacity AI tools make this a simple task. Define the parameters you need, rack space, cooling capacity, weight loadings and so on. Quicklimes AI engine will explore you digital twin and suggest racks that meet your requirements.

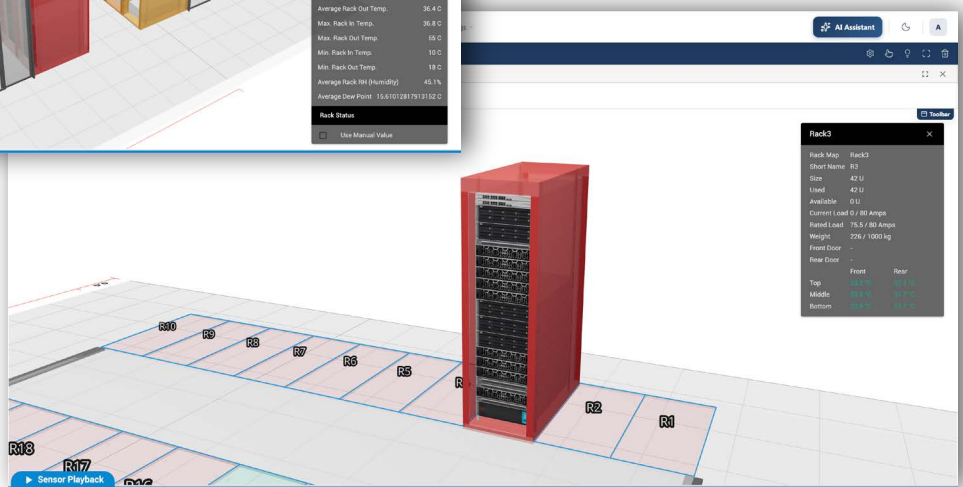
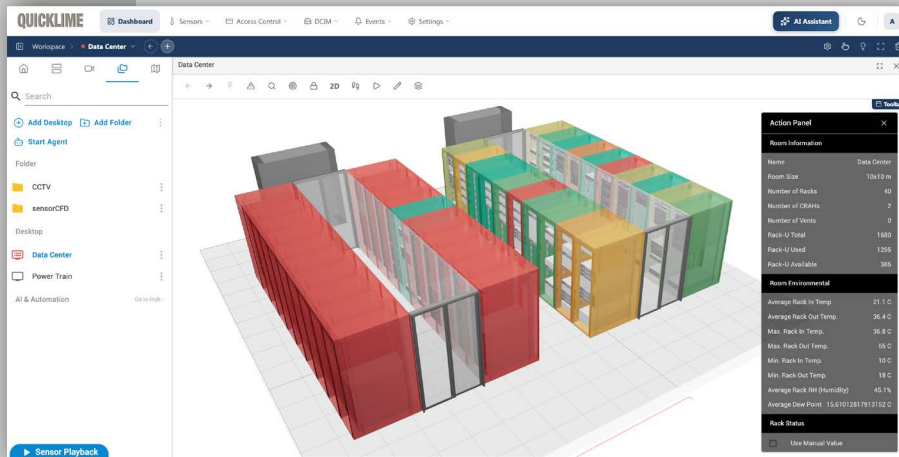




**Network Cable Mapping.** Connect assets to their relevant network switches and ports. Generate cable schedules with source and termination points, lengths and labels. Manage cable pathways and determine run lengths.



**3D Data Center visualization.** Draw your data center in 3D, add assets to racks and connect assets with sensor data.

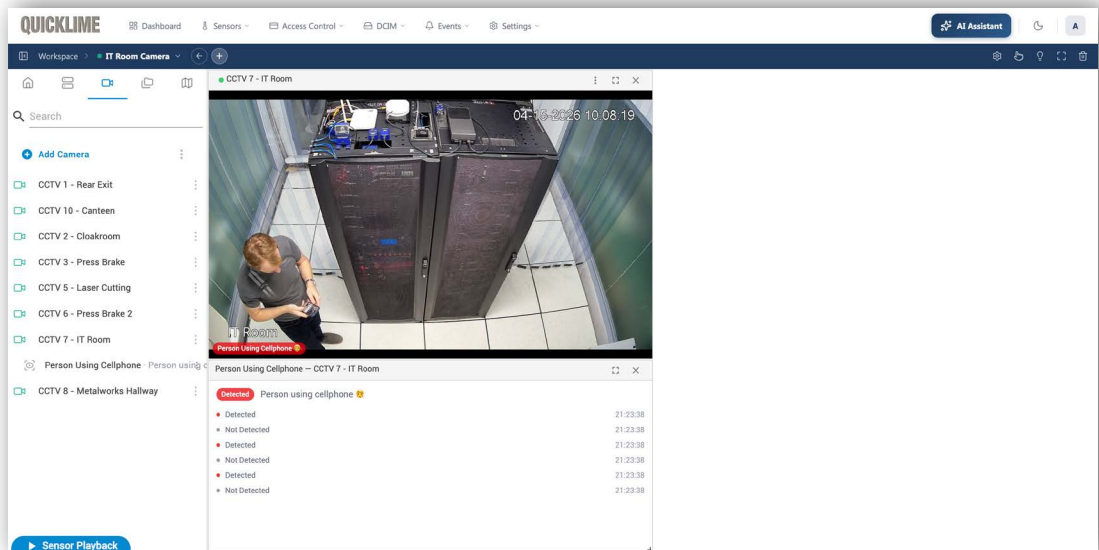
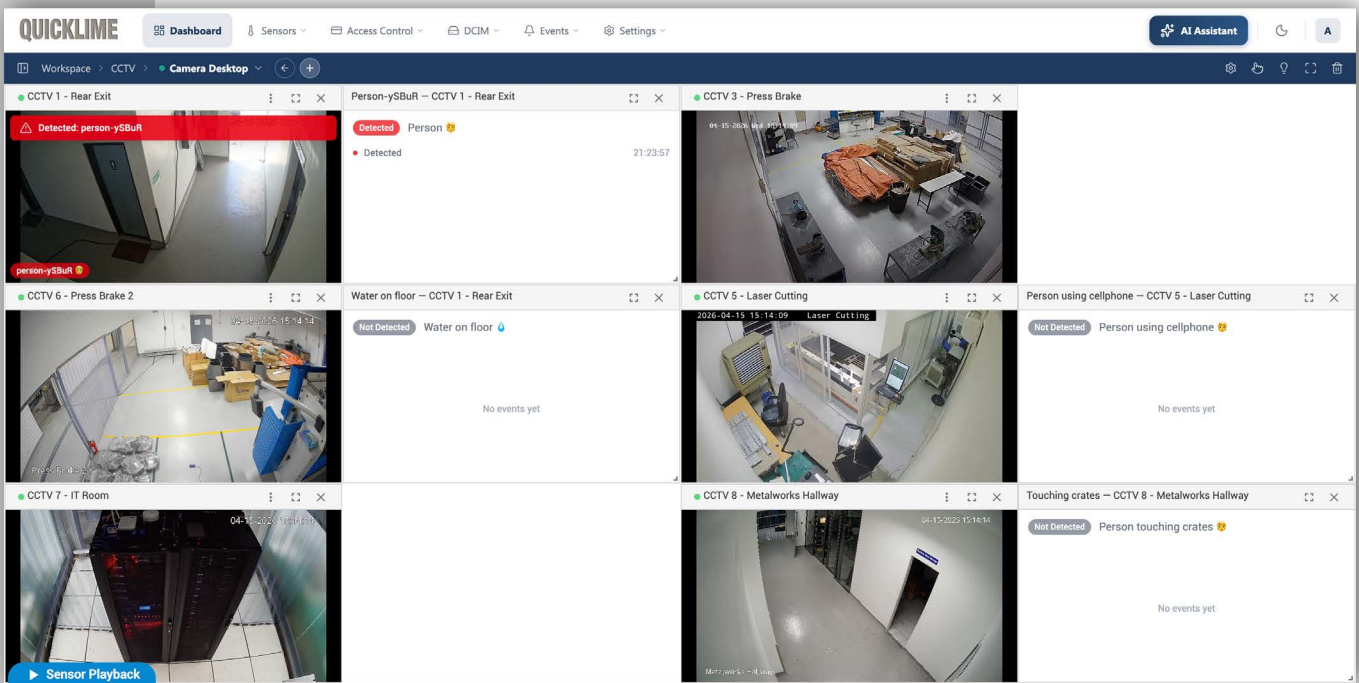


## Video AI

Video feeds in Quicklime can be handled like any other sensor with notifications based on sensor events.

Utilize AI prompting to create video analytical sensors that watch for specific events such as employees not wearing protective gear, crossing into unauthorized areas or checking for hazards.

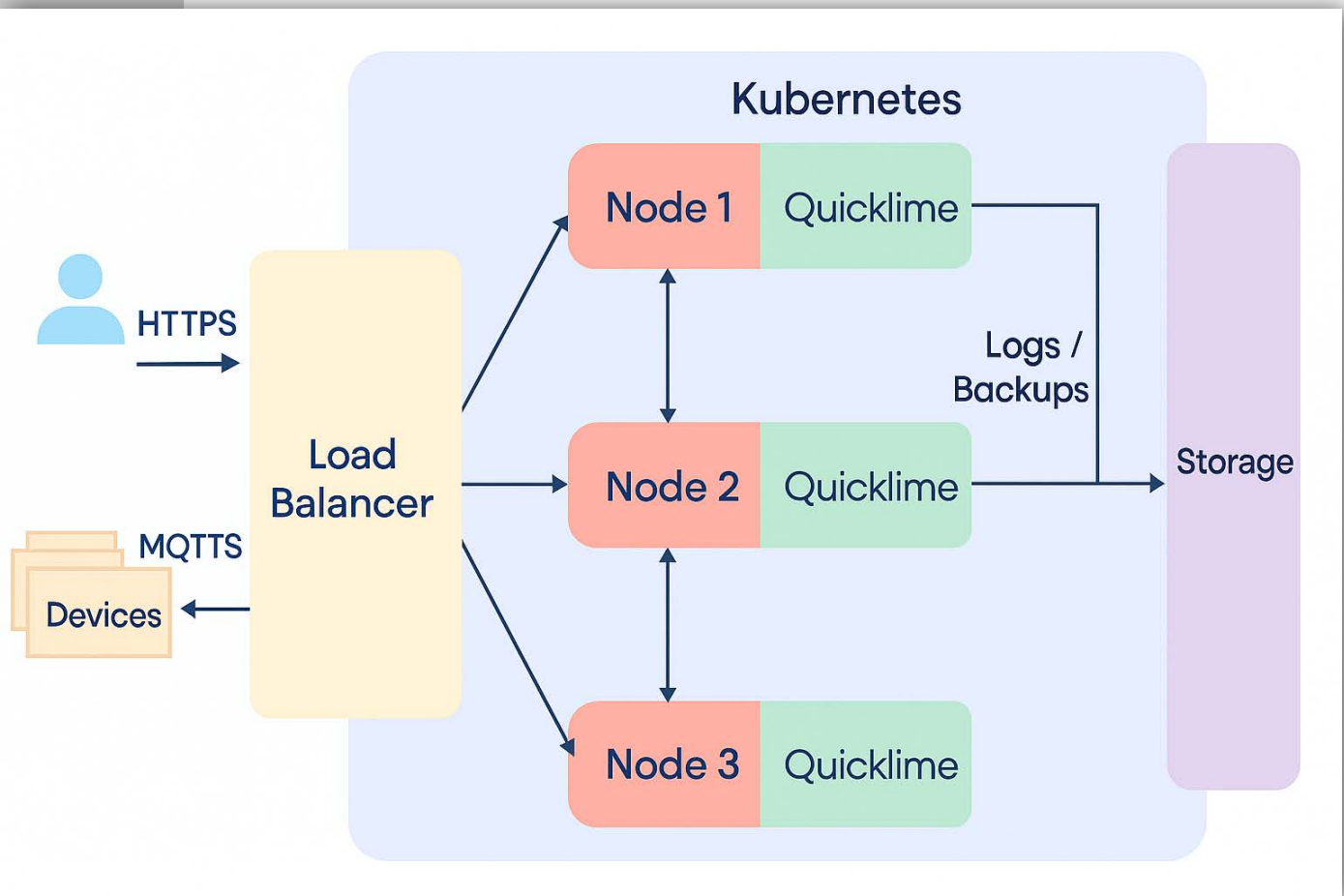
Use AI Prompting to review recorded video for specific events and synchronize events with sensor data.



## Kubernetes Linux Cluster

Our scalable, fault tolerant architecture is designed for large-scale deployments with thousands of sensors. This configuration ensures uptime, redundancy, and seamless failover, making it the best choice for enterprise and data center operations. Built on Kubernetes, it supports high availability and scalability, allowing you to expand the cluster as your monitoring needs grow. Services automatically balance and scale across nodes, ensuring reliability, fault tolerance, and performance under heavy sensor loads.

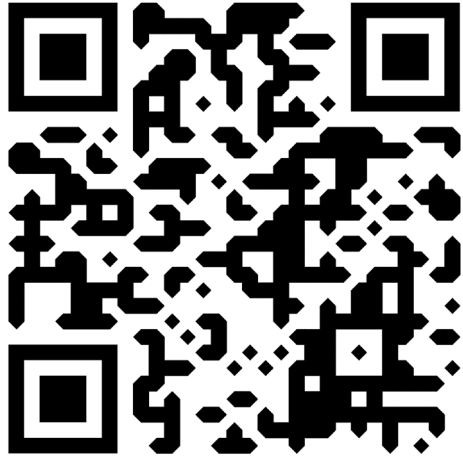
Quicklime can be deployed either on-premise or in a cloud environment, giving you flexibility to match your IT strategy and resilience requirements. For true High Availability and fault tolerance the cluster does not need to be within the same facility. The individual servers can be distributed over a wider geographical area. So long as latency is below 5ms there will be no issues with the synchronous replication of data between the servers. Typically this means, with a dedicated fiber line, you could have the facilities up to 300km apart.



## Ready For The Next Step?

Interested to know more about how Quicklime can help manage your Data Center and save you energy costs?

[Schedule a demo with us today!](#)



Schedule a Demo