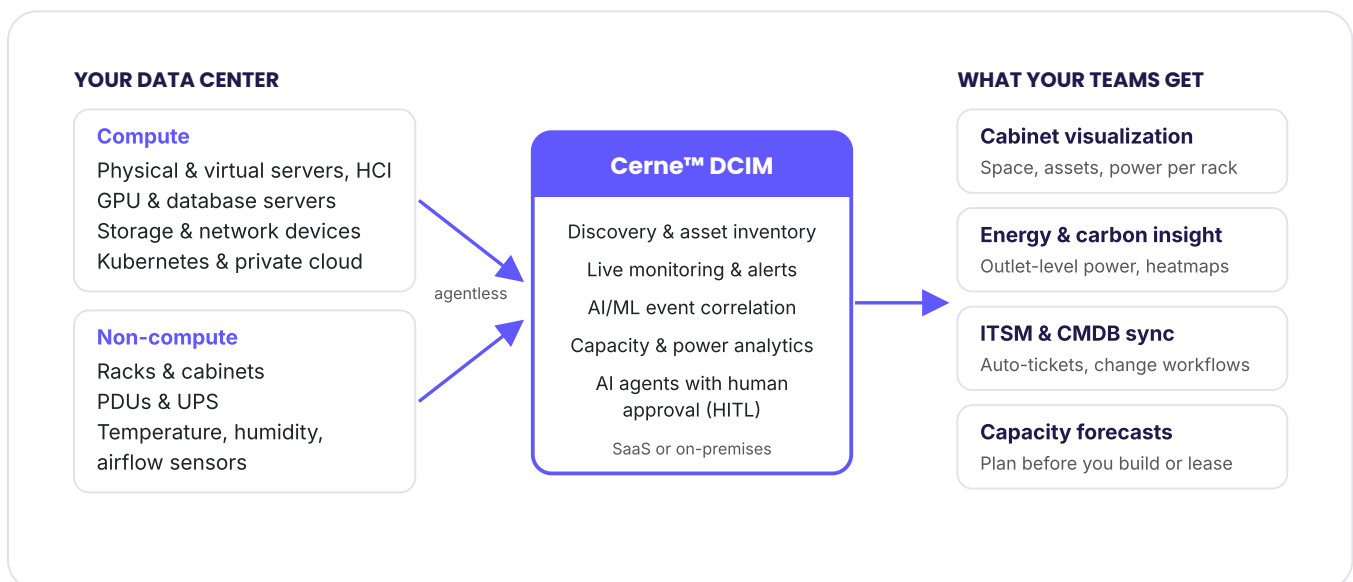


# AI-powered Data Center Infrastructure Management

Transform infrastructure management with intelligence, automation and greater control. See every asset, rack and watt across your data centers and clouds, then hand routine work to an AI coworker that acts within your rules.



**~40%**

## More usable capacity

Unlock stranded space and power with smarter, data-driven capacity planning.

**15–30%**

## Idle infrastructure eliminated

Track the full asset lifecycle to reduce maintenance costs and support OpEx.

**15–40%**

## Lower carbon footprint

Monitor and optimize the energy you use to align data center operations with ESG goals.

**In plain words:** DCIM gives you one live, accurate picture of everything inside your data center: servers, racks, power, cooling and cables. UnityOne AI adds AI on top, so your team can ask questions in natural language and hand routine work to AI agents, with a person approving every step that matters.

## THE CHALLENGE

# You can't manage capacity you can't see

Many data centers still run on spreadsheets, separate power tools and tribal knowledge. That hides usable rack space, outlet-level power use and cooling headroom. Teams then spend money on new space they may not need, and they take longer to fix problems.

### Common pain points

- Stranded rack space and power that nobody can see
- Manual asset records that drift from reality
- Power, cooling and IT data kept in separate silos
- Slow troubleshooting across devices, ports and cables
- No clear link between operations and ESG targets

## YOUR JOURNEY

# From blind spots to full control, in six steps

This brochure follows the path most teams take with UnityOne DCIM.

|           |                                                                                                                                                  |           |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| <b>01</b> | <b>Discover &amp; map</b><br>Find every device automatically and see how it all connects, across data centers, private clouds and public clouds. | pp. 6–11  |
| <b>02</b> | <b>Manage the physical layer</b><br>Racks, power, cooling and space, managed remotely with live analytics for every cabinet.                     | pp. 12–14 |
| <b>03</b> | <b>Monitor IT infrastructure</b><br>VMs, containers, network, storage and servers, brought together in dashboards you control.                   | pp. 15–20 |
| <b>04</b> | <b>Plan &amp; optimize</b><br>Forecast demand, control bandwidth costs and right-size resources before you spend.                                | pp. 21–24 |
| <b>05</b> | <b>Automate &amp; govern</b><br>Policies, configuration backups, patching and workflows that run themselves, within your rules.                  | pp. 25–30 |
| <b>06</b> | <b>Delegate to AI</b><br>Your DCIM coworker answers, recommends and acts with you in control, and you can build your own agents.                 | pp. 31–32 |

## THE PLATFORM AT A GLANCE

# One platform for IT, facilities and cloud teams

Eight core capabilities work together, from the first discovery scan to an AI agent that acts on your behalf.



### Agentless discovery

Automatically finds every connected asset, both compute and non-compute, with no software agents to install.



### Cabinet visualization

Shows live capacity, connected assets and power details for each cabinet and rack.



### Energy, power & sustainability intelligence

Tracks power down to each outlet, benchmarks emissions and maps cabinet-level energy with heatmaps. A carbon reduction recommendation engine suggests what to change.



### Connectivity, cable & port management

Maps connectivity across cabinets, devices, ports, cables and networks. This cuts troubleshooting time and makes planning more accurate.



### ITSM, CMDB & change automation

Connects infrastructure operations with IT workflows. It streamlines service requests, automates change processes and keeps asset records aligned (for example, with ServiceNow).



### Observability, analytics & optimization

Real-time, detailed visibility across compute, storage and network. AI-driven analytics help optimize capacity, cost and sustainability.



### Natural language & AI agents

Ask questions in plain English, get instant insights and orchestrate work through AI agents with human-in-the-loop (HITL) governance, whatever your level of infrastructure expertise.



### RBAC & audit visibility

Role-based access control and a full audit trail keep every action governed, traceable and compliant.

## Extend with add-on modules

Network Configuration Management

Workflow & Infrastructure Automation

OS Patching

Multicloud AIOps

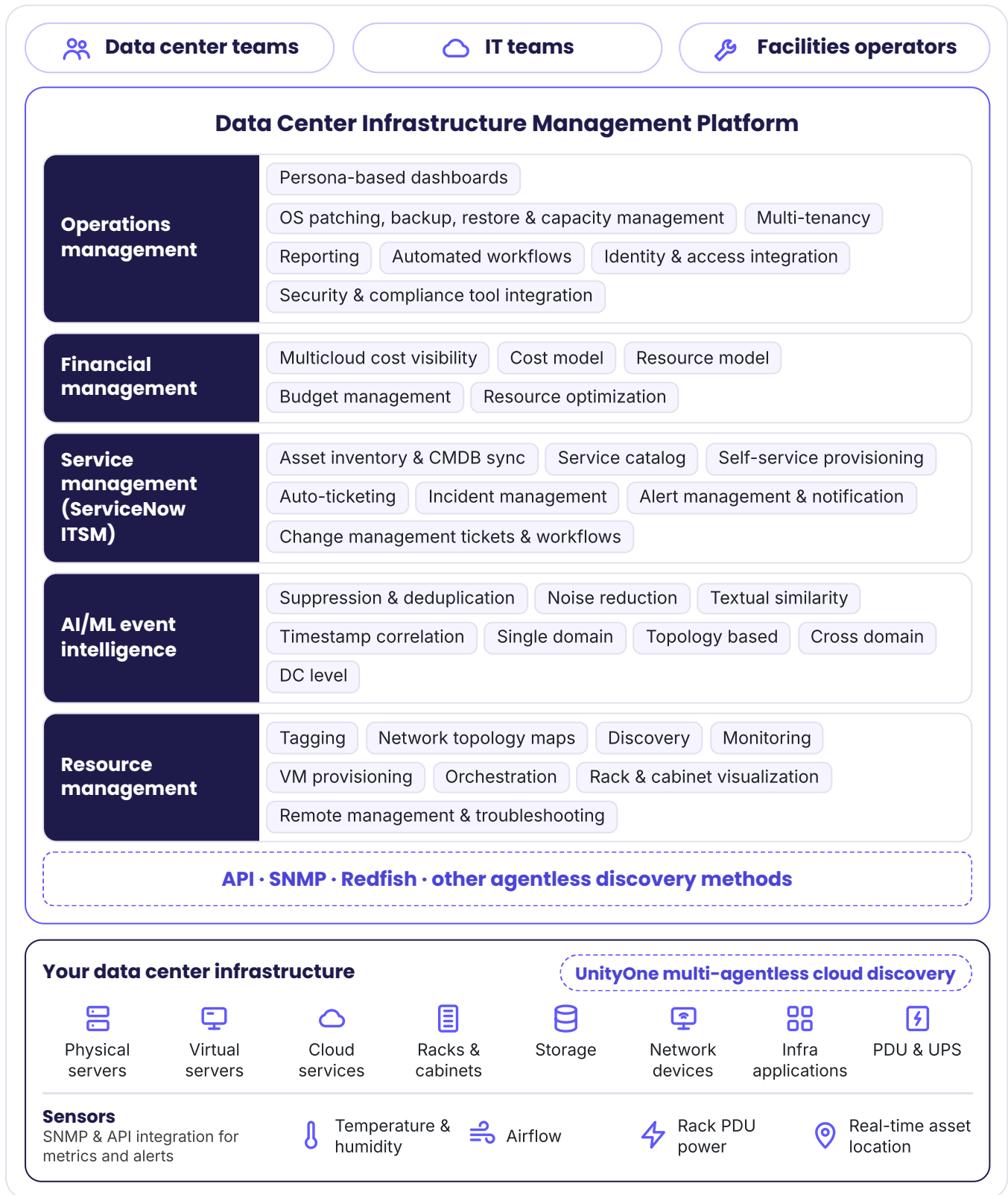
Data Center Cost Management

GPU, LLM & Vector DB Monitoring

PLATFORM ARCHITECTURE

# DCIM powered by UnityOne AI

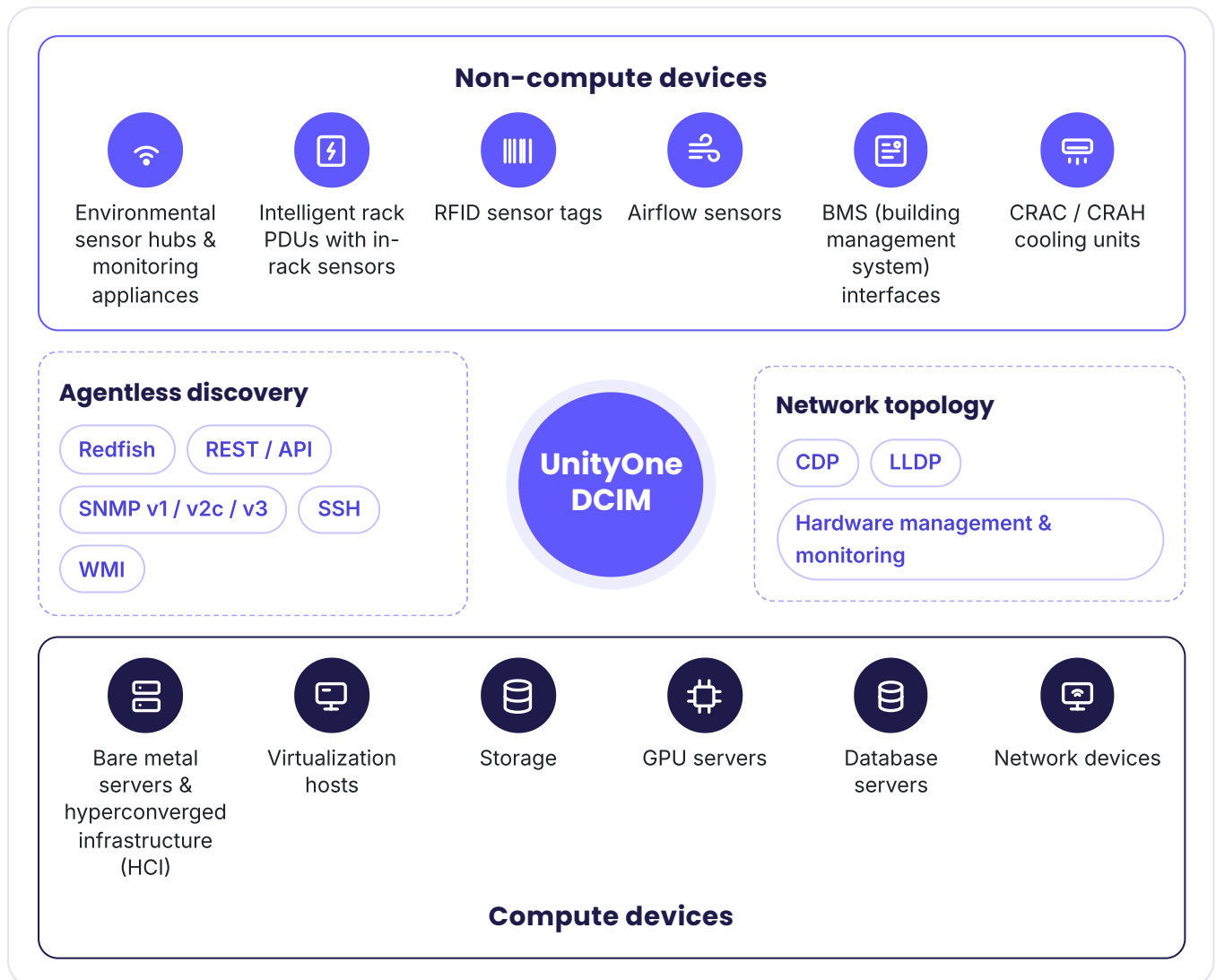
One platform built on agentless discovery. Deploy as SaaS or on-premises.



FOR TECHNICAL TEAMS

# DCIM resources: unified visibility, automation and control

UnityOne DCIM discovers and monitors compute and non-compute devices without agents, and maps how they connect.



## Who benefits

### For IT & infrastructure teams

One inventory, topology and alert stream replaces many tools, so engineers fix issues faster.

### For facilities teams

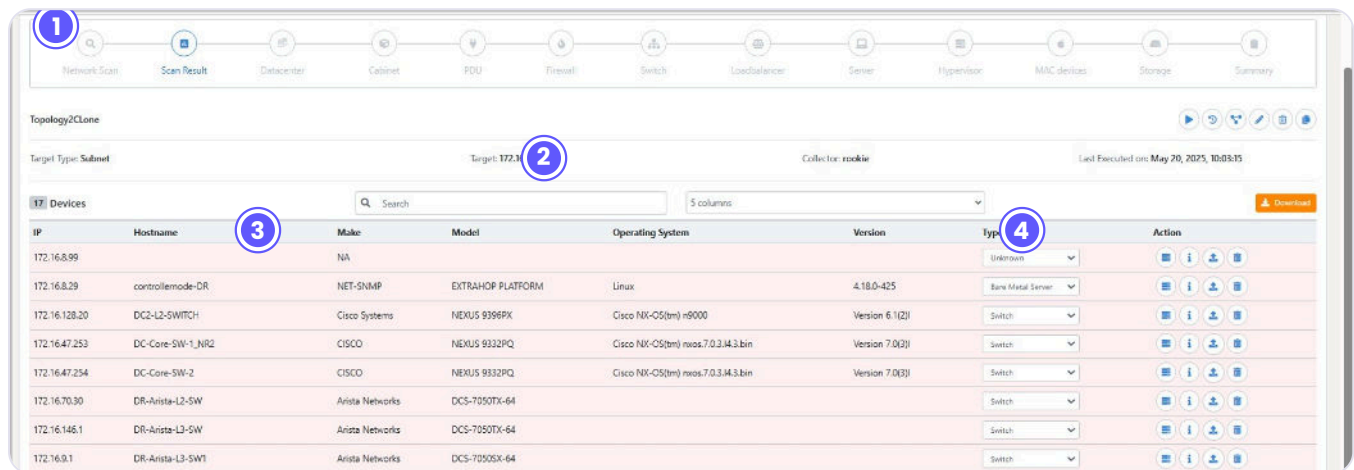
Power, cooling, humidity and rack space are visible in real time, so you can plan with confidence.

### For IT leaders

Defer capital spend, cut operating costs and report progress on ESG goals with real data.

# Discover every device and keep your inventory current

Scan your network for every switch, server and storage device without agents, then let policies onboard and monitor new devices for you.



- 1 Guided discovery**  
 Step through data centers, cabinets, PDUs, network devices, servers, hypervisors and storage.
- 2 Scan a whole subnet**  
 Point a collector at a subnet or IP range and discover what is there.
- 3 Know every device**  
 IP, hostname, make, model, operating system and version for each device found.
- 4 Classify and onboard**  
 Set the device type and onboard it, or download the results.

# Set discovery policies once and let them run

Discovery policies handle what happens after a scan, so new devices are onboarded, placed and monitored without manual work.

## Define the scope

IP range, exclusions, collector and credentials, set once.

## Place in the right rack

Assign devices to a data center and cabinet.

## Onboard automatically

New devices are added and kept up to date when anything changes.

## Start monitoring at once

Apply monitoring templates by device type and manufacturer.

# See how everything in your data center connects

UnityOne builds a live topology map from agentless discovery. Zoom from your data centers down to a single switch or VM, and see at a glance which devices are affected when something fails.



## Every device and link

All servers, VMs, switches and storage around a data center, with healthy devices in green and problems in red.

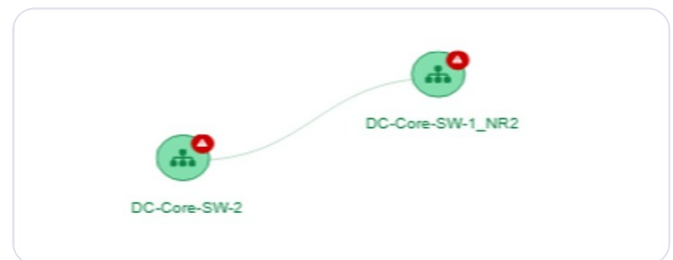
## Zoom from sites to a single device

The same map works at every level, so you can follow a problem from the site down to the device that caused it.



### Data center map

How your primary and DR sites connect.



### Trace a problem

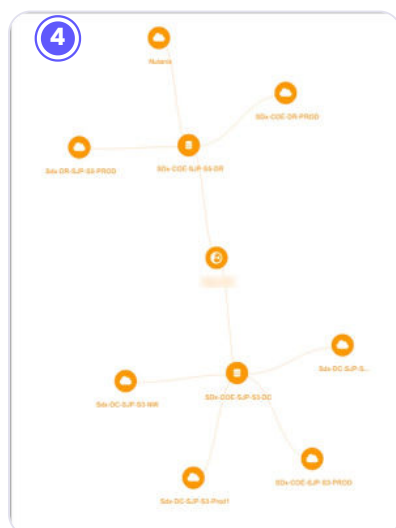
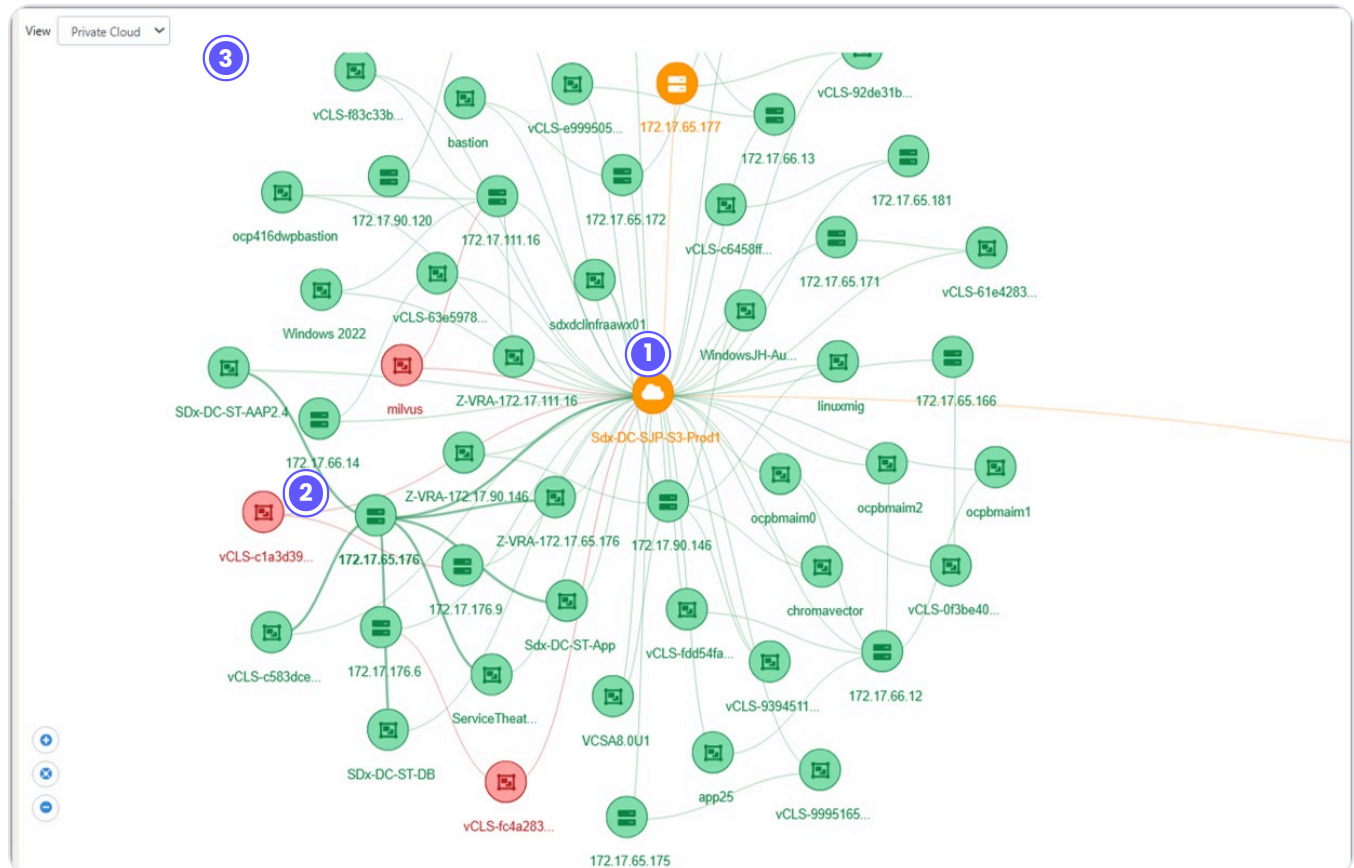
Follow a failing VM to the host it depends on.

### Core network view

Connected core switches, with alerts on the device.

# Map every VM and host across your private clouds

See how your private clouds connect to your data centers, then drill into any cloud to see every VM and host and how they depend on each other.



## 1 Inside a private cloud

Every VM and host in a private cloud and how they connect, with healthy devices in green and problems in red.

## 2 Trace dependencies

Follow the links from a VM to the host it runs on, so you know what is affected before you make a change.

## 3 Switch views instantly

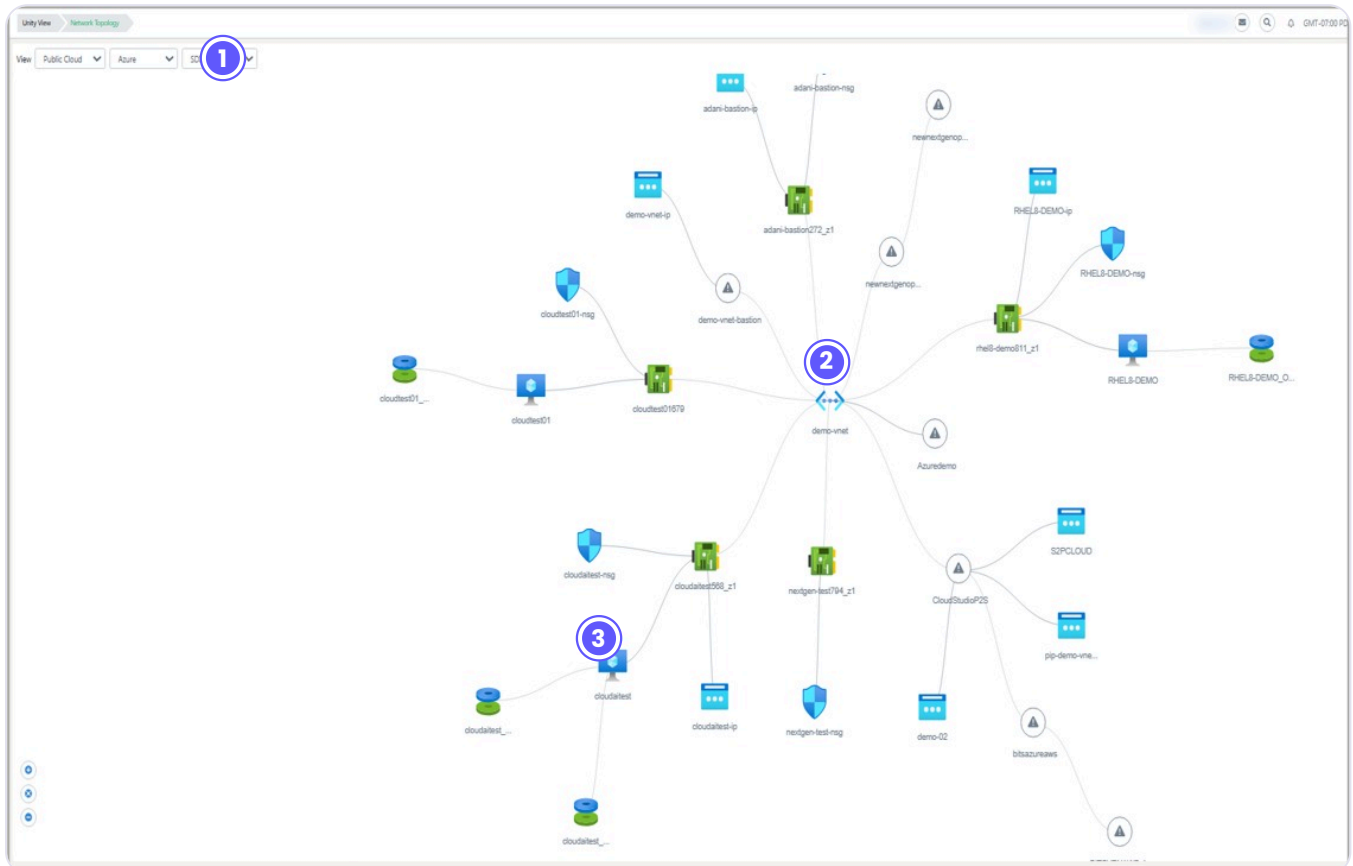
Move between data center and private cloud views, and zoom in or out to the level you need.

## 4 Private cloud hierarchy

See which private clouds, such as VMware and Nutanix environments, run in each data center and DR site.

# See your public cloud networks the same way

Map your Azure resources alongside your data centers and private clouds. See how VMs, disks, network interfaces, IP addresses and security groups connect inside each virtual network.



## 1 Pick any cloud and account

Choose the public cloud, provider and subscription you want to map.

## 2 Virtual network at the center

See how a virtual network connects every VM, network interface, IP address and security group.

## 3 Every resource in context

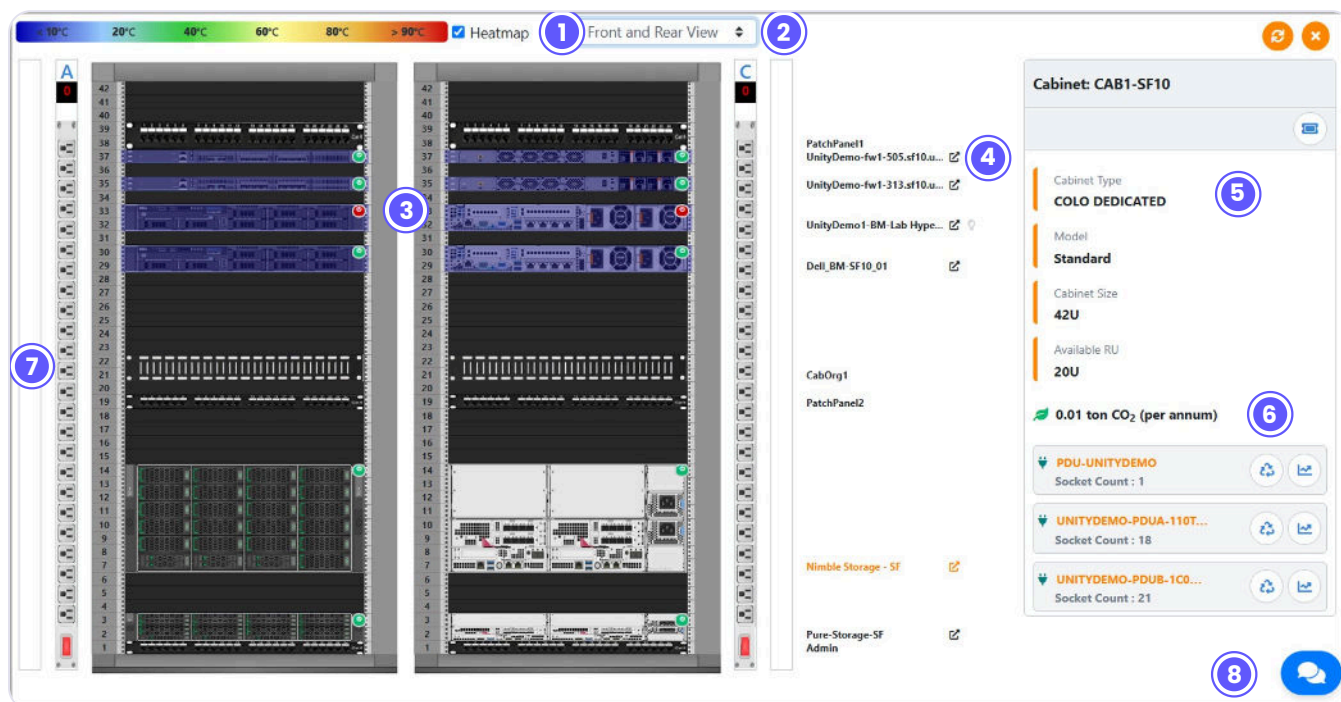
VMs, disks, network interfaces, public IPs and network security groups, each shown with its own icon.

## 4 Related services too

Map supporting services, such as Azure Migrate projects, and how they link together.

# Manage every rack from anywhere

See inside any cabinet without walking the data center floor. Check layout, temperature, device health and power from your browser, then open a device's remote console in one click.

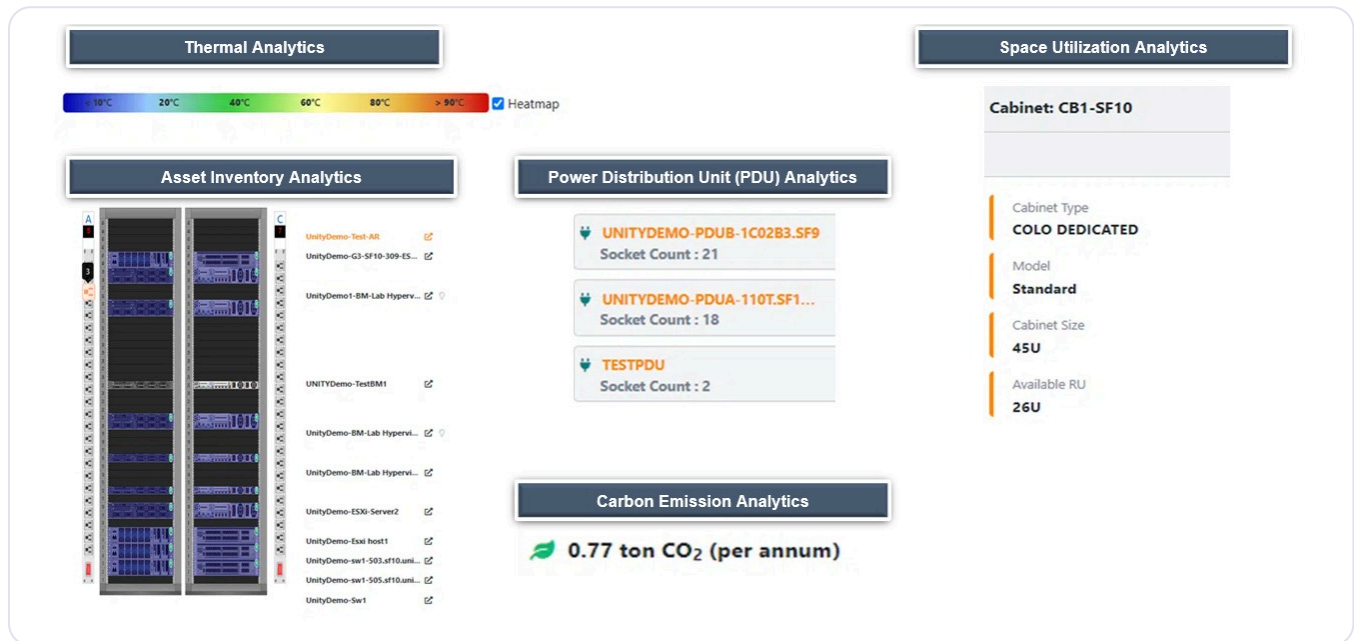


Live cabinet view in UnityOne DCIM: front and rear rack views with heatmap, device links, cabinet details and PDU power.

- 1 Temperature heatmap**  
 A color overlay from below 10°C to above 90°C shows hot spots at a glance.
- 2 Front and rear views**  
 See both sides of the cabinet, down to each rack unit (RU 1–42).
- 3 Live device health**  
 Status indicators on every device flag what is healthy and what needs attention.
- 4 One click to any device**  
 Each server, firewall, storage array and patch panel links to its details and remote management console.
- 5 Cabinet details**  
 Cabinet type, model, size and available rack units, such as 20U free in a 42U cabinet.
- 6 Power and carbon**  
 Every PDU with its socket count and power trend, plus the cabinet's estimated CO<sub>2</sub> per year.
- 7 Rack PDU strips**  
 Power strips on both sides of the rack, shown outlet by outlet.
- 8 Ask the AI assistant**  
 Chat with the platform in plain language to find devices, check status or start a task.

# Five analytics for every cabinet

Heat, assets, power, space and carbon for each cabinet, all on one screen. Facilities and IT teams can make placement and capacity decisions from the same live data.



## Thermal analytics

A temperature heatmap from below 10°C to above 90°C shows hot spots in every rack.



## Asset inventory analytics

See every device in a cabinet by position, each linked to its details.



## PDU analytics

Every power distribution unit in the cabinet, with its socket count.



## Space utilization analytics

Cabinet type, model, size and free rack units, such as 26U free in a 45U cabinet.

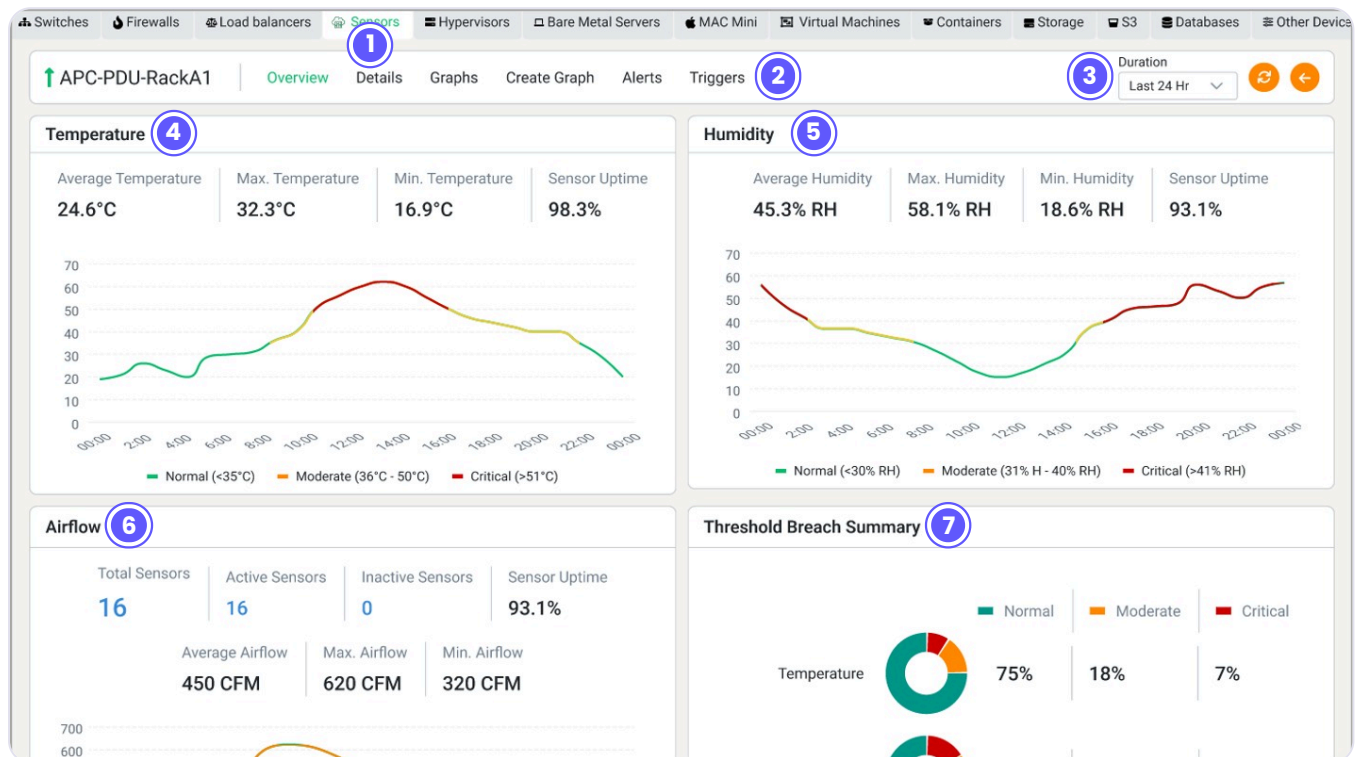


## Carbon emission analytics

Estimated CO<sub>2</sub> per cabinet per year, to support your ESG goals.

# Watch temperature, humidity and airflow in every rack

Anyone on your team can monitor the data center environment. Sensors on rack PDUs report temperature, humidity and airflow in real time, so you catch hot spots early.

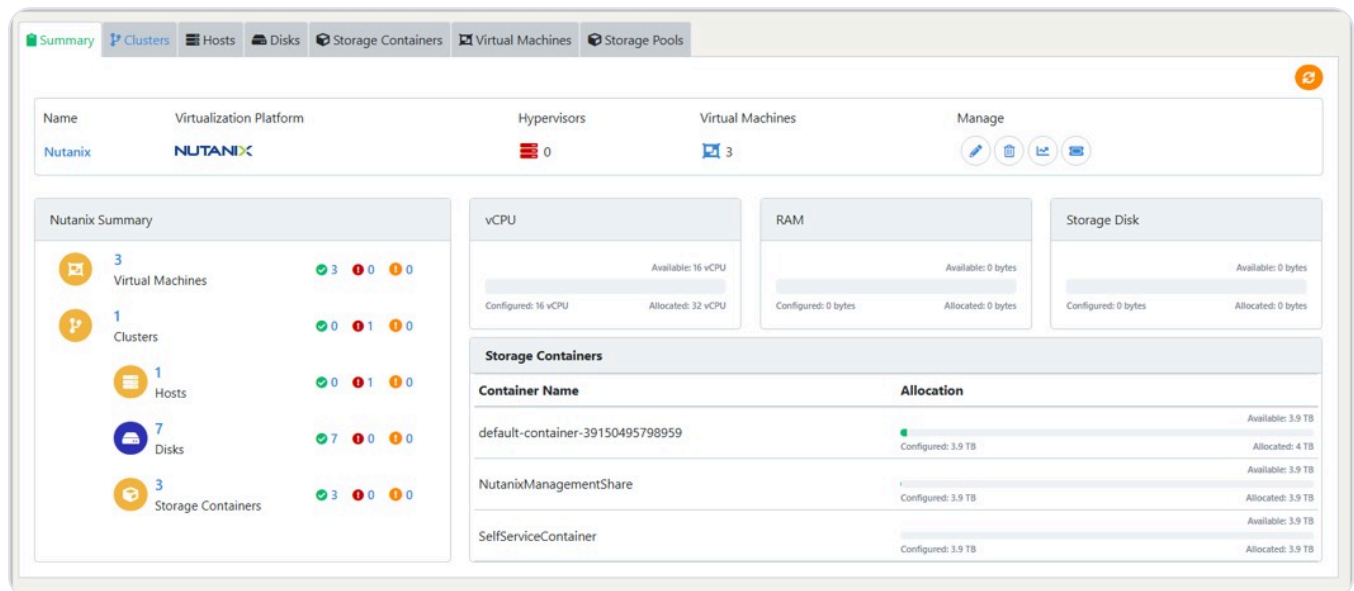


Rack PDU sensor dashboard in UnityOne DCIM, last 24 hours.

- Every device type**  
Sensors sit alongside switches, firewalls, servers, VMs, storage and databases, each in its own tab.
- Drill into any sensor**  
Overview, details, graphs, custom graphs, alerts and triggers for each rack PDU or sensor hub.
- Pick your time range**  
Review the last 24 hours or any other period.
- Temperature**  
Average, maximum and minimum readings plus sensor uptime, color-coded normal, moderate or critical.
- Humidity**  
Relative humidity trends with the same normal, moderate and critical bands.
- Airflow**  
Active and inactive sensors, with average, maximum and minimum airflow in CFM.
- Threshold breach summary**  
How much of the time each metric stayed normal, moderate or critical.

# See every VM, host and disk in your private clouds

API-based discovery brings your private clouds into one view, with no agents to install.



Nutanix

Microsoft Hyper-V

OpenStack

Proxmox

VMware vCenter

The screenshot shows the 'Add Credentials' form in the UnityOne AI dashboard. The form includes fields for Cloud Provider, Select Datacenter, Host Name, Collector, Credentials, and Protection Domain. It also has a 'Scheduled Discovery' checkbox and 'Cancel' and 'Next' buttons.

## API-based discovery

Add credentials, set filters and schedule discovery.

## Your whole virtual estate

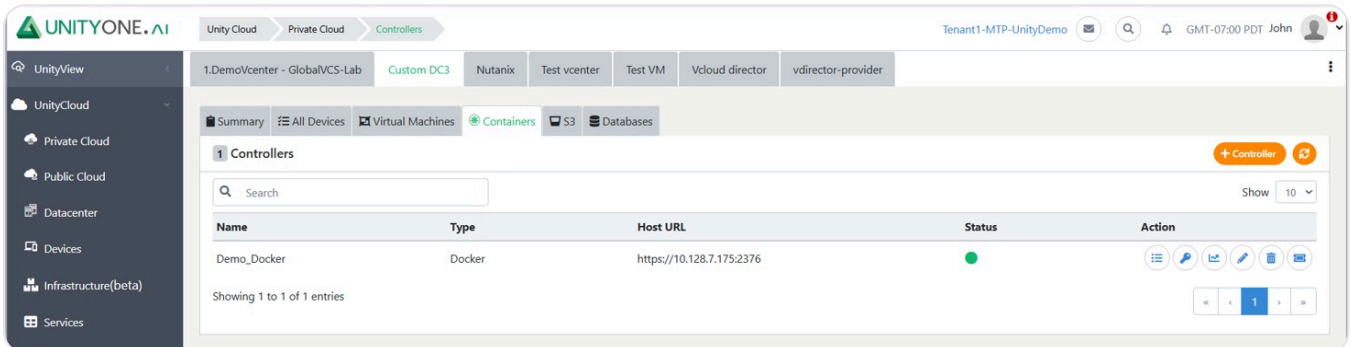
VMs, clusters, hosts, disks and storage containers, with health counts.

## Capacity at a glance

vCPU, RAM and storage, configured and available.

# Manage containers alongside your VMs

Add container controllers such as Docker, and manage Kubernetes and container environments with automation, scalability and multicloud support.



## Kubernetes and containers

Add controllers and see their status next to the rest of your estate.

## Everything per private cloud

Summary, all devices, VMs, containers, S3 and databases for each cloud.

# Watch every firewall and load balancer

Check status, model, management IP and tags for every network device, across vendors, and act on it in one click.

| 6 Firewalls                                       |                     |        |               |                     |                    |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------------|---------------------|--------|---------------|---------------------|--------------------|-----------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div> <div>Search</div> <div>Show 10</div> </div> |                     |        |               |                     |                    |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <input checked="" type="checkbox"/>               | Name ↕              | Status | Model         | Cloud               | Type               | Management IP   | Tags      | Actions                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <input type="checkbox"/>                          | Fortinet- NCM De... | ●      | FortiGate 50E |                     | FortiGate          | 10.128.7.8      | NCM       |      |
| <input type="checkbox"/>                          | fw-unitydemo        | ●      | ASA 5585-X 10 |                     | cisco Systems Inc. | 10.192.10.14    | N/A       |      |
| <input type="checkbox"/>                          | Palo Alto- NCM D... | ●      | PA-820        |                     | Paloalto           | 10.192.0.69     | NCM       |      |
| <input type="checkbox"/>                          | UnityDemo-fw1-3...  | ●      | SRX240H       |                     | Juniper            | 207.7.137.4     | UnityDemo |      |
| <input type="checkbox"/>                          | UnityDemo-fw1-5...  | ●      | SRX345        |                     | Juniper            | 209.237.233.100 | UnityDemo |      |
| <input type="checkbox"/>                          | UnityDemo-fw1-...   | ●      | ASA 5585-X 10 | 1.DemoVcenter - ... | cisco Systems Inc. | 10.1.0.5        | test      |      |

| 4 Load Balancers                                  |                       |        |              |       |               |               |           |                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------------------|-----------------------|--------|--------------|-------|---------------|---------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div> <div>Search</div> <div>Show 10</div> </div> |                       |        |              |       |               |               |           |                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <input checked="" type="checkbox"/>               | Name ↕                | Status | Model        | Cloud | Type          | Management IP | Tags      | Actions                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <input type="checkbox"/>                          | Dell-Storage-unity... | ●      | BIG-IP 3400  |       | F5 LABS, INC. | 10.192.10.51  | N/A       |      |
| <input type="checkbox"/>                          | F5- NCM Demo          | ●      | BIG-IP 2000  |       | F5 LABS, INC. | 10.192.17.9   | NCM       |      |
| <input type="checkbox"/>                          | UL-SV1-UNITY-LA...    | ●      | BIG-IP 2000  |       | F5 LABS, INC. | 10.192.17.9   | DC3       |      |
| <input type="checkbox"/>                          | UnityDemo-mtinfr...   | ●      | BIG-IP i2600 |       | F5 Networks   | 10.128.7.98   | UnityDemo |      |

## Firewalls

Fortinet FortiGate, Cisco ASA, Palo Alto and Juniper SRX.

## Load balancers

F5 BIG-IP and others, with status and management IP.

# Switches, storage and servers, all in view

The same simple lists cover your switches and routers, storage arrays and bare metal servers.

| Switches            |        |                     |       |                    |               |           |         |  |
|---------------------|--------|---------------------|-------|--------------------|---------------|-----------|---------|--|
| Search              |        |                     |       |                    |               |           |         |  |
| Name                | Status | Model               | Cloud | Type               | Management IP | Tags      | Actions |  |
| Cisco FTD - NCM ... | ●      | NEXUS 93108TC-EX    |       | CISCO              | 10.128.7.7    | NCM       |         |  |
| Cisco IOS - NCM ... | ●      | CATALYST 2960S-4... |       | CISCO              | 10.128.7.105  | NCM       |         |  |
| Cisco Nexus- NC...  | ●      | NEXUS 93108TC-EX    |       | CISCO              | 10.128.7.4    | NCM       |         |  |
| Core-Router-Demo    | ●      | ASR1002-X           |       | Cisco Systems Inc. | 10.192.10.12  | N/A       |         |  |
| NCM-10.128.7.4      | ●      | NEXUS 93108TC-EX    |       | CISCO              | 10.128.7.4    | N/A       |         |  |
| sw2-mgmt.s110.u...  | ●      | 3750G-48TS          |       | cisco              | 10.1.0.1      | UnityDemo |         |  |
| sw2-unitydemo       | ●      | WS-C2950T-24        |       | cisco              | 10.192.10.21  | N/A       |         |  |
| sw3-unitydemo       | ●      | WS-C2950T-24        |       | cisco              | 10.192.10.23  | NewTag    |         |  |

| Storage Devices     |        |       |            |                |         |           |         |  |
|---------------------|--------|-------|------------|----------------|---------|-----------|---------|--|
| Search              |        |       |            |                |         |           |         |  |
| Name                | Status | Cloud | OS         | Management IP  | Storage | Tags      | Actions |  |
| Nimble Storage - SF | ●      | N/A   | NimbleOS 5 | 192.168.232.17 | N/A     | NewTag    |         |  |
| Pure-Storage-SF     | ●      | N/A   | Other 0.0  | 10.192.4.164   | N/A     | UnityDemo |         |  |

| Bare Metal Servers      |        |                        |       |               |           |         |  |
|-------------------------|--------|------------------------|-------|---------------|-----------|---------|--|
| Search                  |        |                        |       |               |           |         |  |
| Server                  | Status | Operating System       | Cloud | Management IP | Tags      | Actions |  |
| aiops-2                 | ●      | Linux 5.4.0-208-Gen... | N/A   | 10.128.7.96   | N/A       |         |  |
| Dell_BM-SF10_01         | ●      | Windows Microsoft ...  | N/A   | 10.192.0.246  | UnityDemo |         |  |
| globalvcs1.unitedlay... | ●      | Windows Microsoft ...  | N/A   | 10.128.7.21   | test      |         |  |
| UnityDemo1-BM-La...     | ●      | Ubuntu 20.04           | N/A   | 10.128.7.37   | N/A       |         |  |
| Unitydemo-Win-srv...    | ●      | Windows Version 6.3... | N/A   | 10.128.7.76   | N/A       |         |  |

## Switches and routers

Cisco Nexus, Catalyst and ASR, plus wireless and VoIP devices.

## Storage devices

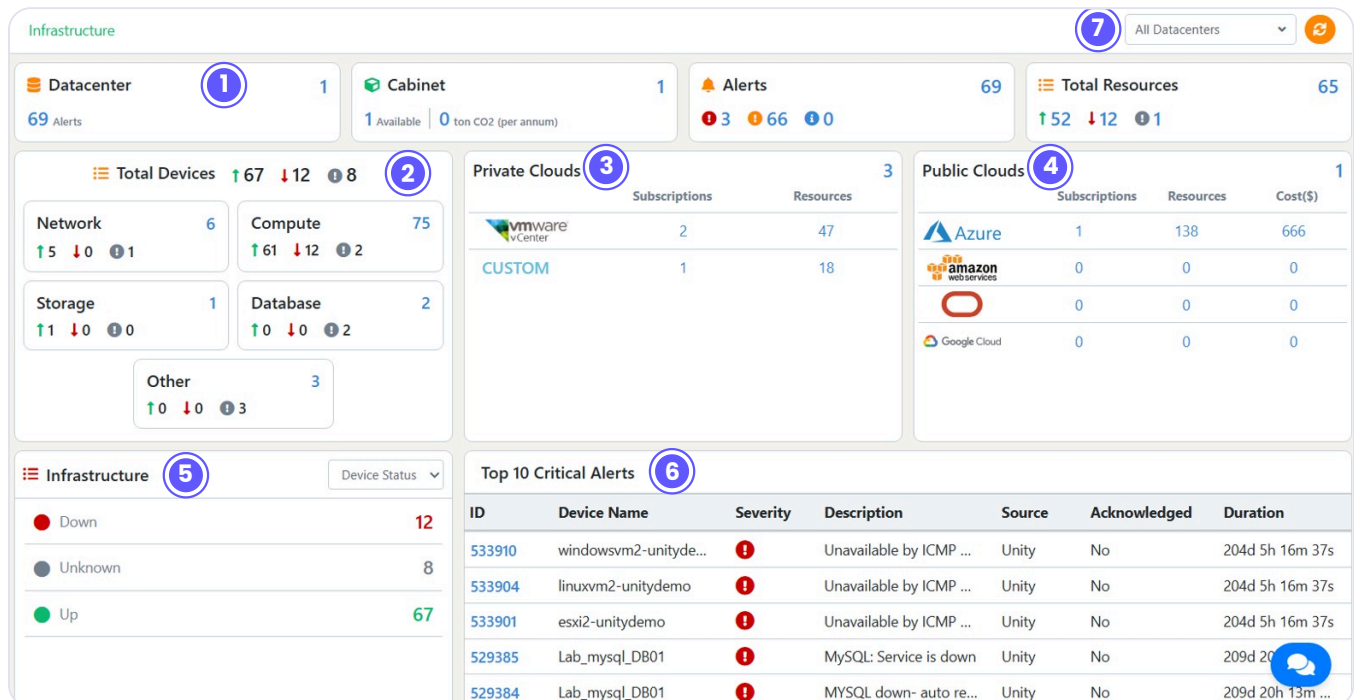
Arrays such as Nimble and Pure Storage.

## Bare metal servers

Monitor and remotely manage Linux and Windows servers.

# Your public cloud, private cloud and data center in one view

Stop switching between tools. One dashboard shows your data center assets, private clouds and public clouds side by side, with device health and critical alerts, so every team works from the same picture. Dashboards can also be customized (see the next page).



Infrastructure dashboard in UnityOne: data center, private cloud and public cloud assets on one screen.

- 1 At-a-glance summary**  
Data centers, cabinets, alerts and total resources at the top of the screen, including carbon per cabinet.
- 2 Every device type**  
Network, compute, storage, database and other devices, each with up, down and unknown counts.
- 3 Private clouds**  
VMware vCenter and custom private clouds, with their subscriptions and resources.
- 4 Public clouds**  
Azure, AWS, Oracle Cloud and Google Cloud, with subscriptions, resources and cost.
- 5 Device status**  
How many devices are up, down or unknown right now.
- 6 Top critical alerts**  
The ten most critical alerts with severity, source, acknowledgement and duration, each linked to its details.
- 7 Filter by data center**  
View all data centers together, or focus on one site.

# Build dashboards your way

Every team needs a different view. Create custom dashboards from ready-made widgets for alerts, device and interface traffic, and more, then arrange them to suit your role.



A custom dashboard in UnityOne with alert, device utilization and interface traffic widgets.

- 1 Custom dashboards**  
 Build your own dashboards next to the default view, for each team, site or service.
- 2 Manage widgets**  
 Add, remove and arrange widgets so each dashboard shows what matters to you.
- 3 Auto refresh**  
 Turn live refresh on to watch changes as they happen, or off to review a snapshot.
- 4 Alert groups**  
 Group alerts the way you work, such as all cloud alerts in one widget.
- 5 Device utilization**  
 See the top devices by transmit and receive traffic over the last hour.
- 6 Interface traffic**  
 Track the busiest network interfaces and spot congestion early.

**Persona-based by design:** give IT engineers, facilities teams and IT leaders each a dashboard built around their own goals, with the same live data underneath.

# Predict demand before you run out

Monitor spikes and forecast utilization for any device and metric, then get alerted before limits are hit.

| Device Name    | Device Status | Total Metrics | Alert Count | Action  |
|----------------|---------------|---------------|-------------|---------|
| UL-BM-SF-AD-01 | Up            | 12            | 12          | [Icons] |
| UL-BM-SF-AD-03 | Down          | 04            | 11          | [Icons] |
| UL-BM-SF-AD-04 | Down          | 15            | 08          | [Icons] |
| UL-BM-SF-AD-05 | Up            | 14            | 09          | [Icons] |

| Forecast Metrics Name | Projection Period | Alerting | Threshold | Severity       | Created On       | Action  |
|-----------------------|-------------------|----------|-----------|----------------|------------------|---------|
| CPU Utilization       | 30 Mins           | Enabled  | 80        | [Warning Icon] | 12/03/2024 12:52 | [Icons] |
| Memory Utilization    | 30 Mins           | Disabled | -         |                | 12/03/2024 12:52 | [Icons] |
| C:/Drive Utilization  | 1 Hour            | Enabled  | 75        | [Warning Icon] | 11/03/2024 23:12 | [Icons] |
| C:/Drive Utilization  | 1 Hour            | Disabled | -         |                | 09/03/2024 02:12 | [Icons] |
| Disk Read Rate        | 1 Days            | Enabled  | 05        | [Info Icon]    | 08/03/2024 12:52 | [Icons] |
| Disk Write Rate       | 5 Days            | Enabled  | 10        | [Warning Icon] | 16/03/2024 16:46 | [Icons] |

| Device Name | Device Type | IP Address | Description             | Event Time        | Severity       | Status         | Duration | Acknowledge |
|-------------|-------------|------------|-------------------------|-------------------|----------------|----------------|----------|-------------|
| Device 1    | NA          | 10.1.0.1   | New Trigger             | 11 Sep 2023 12:23 | [Warning Icon] | [Checkmark]    | 12s      | [Icon]      |
| Device 2    | switch      | 10.1.0.1   | unity: Available Failed | 11 Sep 2023 8:23  | [Checkmark]    | [Warning Icon] | 10s      | [Icon]      |
| Device 3    | switch      | 10.1.0.1   | New Trigger             | 11 Sep 2023 12:23 | [Checkmark]    | [Checkmark]    | 1m 55s   | [Icon]      |
| Device 4    | switch      | 10.1.0.1   | New Trigger             | 11 Sep 2023 8:23  | [Warning Icon] | [Warning Icon] | 2m19s    | [Icon]      |

## Create a forecast in minutes

Pick a device, metric, analysis window and projection period.

## Alert before limits are hit

Severity-ranked alerts, with optional auto-remediation.

## Predict utilization

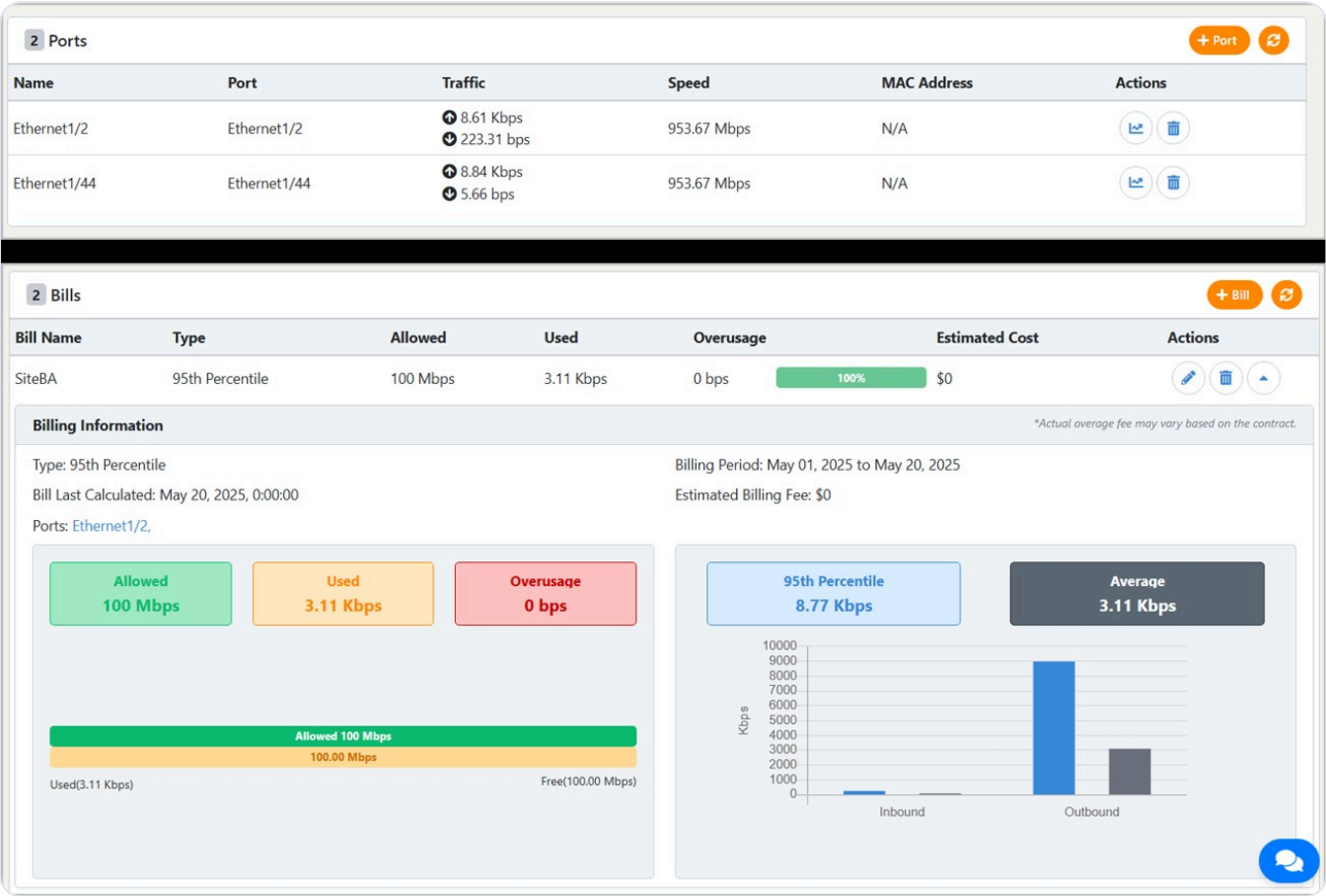
CPU, memory, drive and disk usage, from 30 minutes to days ahead.

## Track and acknowledge

A full event history, so nothing is missed.

# Monitor bandwidth and control what it costs

Track live port traffic and 95th percentile billing for every site or customer, with forecasts and recommendations to reduce costs.



## Port-level traffic

Live inbound and outbound traffic for every port.

## Bills per site or customer

Allowed, used and overusage bandwidth, with estimated cost.

## Clear billing periods

Inbound vs outbound, and 95th percentile vs average.

## Cut bandwidth costs

Forecasts and recommendations help avoid overage charges.

# Right-size resources and stop paying for waste

Find over- and under-provisioned compute and storage across private and public clouds, and get a clear fix for each.

36 Recommendation

Location

Cloud Type

Service

Account

| Resource Name                | Account Name    | Region        | Cloud Type | Service         | Cost    | Recommendation Category | Recommendation Typ |
|------------------------------|-----------------|---------------|------------|-----------------|---------|-------------------------|--------------------|
| i-05efef3f605bd432c          | UL-vC-Acc01     | San Francisco | vCenter    | Virtual Machine | \$20.25 | Unused Resource         | CPU                |
| config-bucket-973740096674   | UL-vC-Acc02     | San Francisco | vCenter    | VM Instance     | \$10.12 | Load Balancing          | New VM             |
| db-5YKYKA7KRG26PUUEEME2EHLEE | AWS Lab 15      | Oregon        | AWS        | AKS             | \$5.27  | Over-provisioned        | RAM                |
| i-06efef3f605bd432c          | UL-vC-Acc01     | San Francisco | vCenter    | Virtual Machine | \$7.28  | Unused Resource         | Disk Space         |
| i-05efef3f605bd432c          | Azure Prod SF10 | N. California | Azure      | RDS IOPS        | \$4.58  | Architecture            | NAT                |
| db-5YKYKA7KRG26PUUEEME2ASLAF | AWS Lab 10      | N. Virginia   | AWS        | EBS IOPS        | \$7.25  | Over-provisioned        | Upgrade CPU        |
| config-bucket-97374099663387 | Azure Prod SV2  | Oregon        | Azure      | DynamoDB        | \$2.36  | Unused Resource         | CPU                |
| config-bucket-977848758549   | Azure Prod SV4  | N. California | Azure      | Container APP   | \$2.68  | Load Balancing          | Clone VM           |
| i-05efef3f605Jh887744596     | Azure Prod SV8  | N. California | Azure      | S3              | \$7.58  | Rate Optimization       | Migrate            |
| i-05efef3f605bd6569685945    | AWS Lab 10      | N. Virginia   | vCenter    | Database        | \$2.56  | Architecture            | Bandwidth          |

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## Automated recommendations

Flags unused and over-provisioned resources to avoid over- and under-provisioning.

## Cost on every line

Each resource shows its cost, account, region, cloud and service.

## Rightsize compute and storage

CPU, RAM and disk changes, such as upgrading CPU or migrating a VM.

## Filter and prioritize

By location, cloud type, service or account.

# Apply fixes with ready-made optimization tasks

Turn recommendations into action with tasks for every major cloud, built on automation you can edit.

| Name                | Category           | Type | Source             | Target Type | Status         | Action  |
|---------------------|--------------------|------|--------------------|-------------|----------------|---------|
| VMware Optimization | VMware vCenter     | A    | Unity Default Repo | Cloud       | Enable Disable | [Icons] |
| OCI Optimization    | Oracle             | A    | Unity Default Repo | Cloud       | Enable Disable | [Icons] |
| AWS Optimization    | AWS                | A    | Unity Default Repo | Cloud       | Enable Disable | [Icons] |
| GCP Optimization    | GCP                | A    | Unity Default Repo | Cloud       | Enable Disable | [Icons] |
| Azure Optimization  | Azure - Automation | A    | Unity Default Repo | Cloud       | Enable Disable | [Icons] |

Showing 1 to 5 of 5 entries

**Update Task**

Name\*: VMware Optimization

Description: Description

Category\*: VMware vCenter

Type\*: Ansible Playbook

Target Type\*: Cloud

Source\*: Unity Default Repo

Script\*: Ansible OS Details1

☒ Define Parameters

Input Parameter

| Parameter     | Type           | Value            | Operator |
|---------------|----------------|------------------|----------|
| account       | Input Template | VMware VCenter   | hostname |
| optimize_type | Input Template | Private Cloud Op |          |
| resource_type | Input Template | Optimization Res |          |

Output Type\*: None

## Ready-made optimization tasks

For VMware, Oracle Cloud, AWS, GCP and Azure, run on demand or on a schedule.

## Make it your own

Edit tasks built on Ansible playbooks and pass in your own parameters.

# Set the rules once and let the platform enforce them

Define policies for auto-scaling, resource quotas, tagging, compliance and cost. UnityOne applies them across your clouds and data centers automatically.

25 Policy

Q

Enter Keyword

| Name      | Type                  | Scope        | Alerting |         | Notification |         | Status |         | Action                               |
|-----------|-----------------------|--------------|----------|---------|--------------|---------|--------|---------|--------------------------------------|
| Policy 1  | Resource Quota        | Group        | Enable   | Disable | Enable       | Disable | Enable | Disable | <div> <div></div> <div></div> </div> |
| Policy 2  | Auto-Scaling          | Cloud        | Enable   | Disable | Enable       | Disable | Enable | Disable | <div> <div></div> <div></div> </div> |
| Policy 3  | Tagging and Naming    | Organization | Enable   | Disable | Enable       | Disable | Enable | Disable | <div> <div></div> <div></div> </div> |
| Policy 4  | Security Compliance   | Tag          | Enable   | Disable | Enable       | Disable | Enable | Disable | <div> <div></div> <div></div> </div> |
| Policy 5  | Cost Control          | Organization | Enable   | Disable | Enable       | Disable | Enable | Disable | <div> <div></div> <div></div> </div> |
| Policy 6  | Image and Template    | Cloud        | Enable   | Disable | Enable       | Disable | Enable | Disable | <div> <div></div> <div></div> </div> |
| Policy 7  | Geographic Deployment | Cloud        | Enable   | Disable | Enable       | Disable | Enable | Disable | <div> <div></div> <div></div> </div> |
| Policy 8  | Security Compliance   | Group        | Enable   | Disable | Enable       | Disable | Enable | Disable | <div> <div></div> <div></div> </div> |
| Policy 9  | Tagging and Naming    | Tag          | Enable   | Disable | Enable       | Disable | Enable | Disable | <div> <div></div> <div></div> </div> |
| Policy 10 | Resource Quota        | Organization | Enable   | Disable | Enable       | Disable | Enable | Disable | <div> <div></div> <div></div> </div> |

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## Policy types

Resource quota, auto-scaling, tagging and naming, compliance, cost control and more.

## Alerts and notifications

Choose per policy whether to alert and notify.

## Scoped where you need it

Apply each policy to an organization, group, cloud or tag.

## Switch on or off

Enable or disable any policy instantly.

## Create a policy in a few clicks

Name the policy, choose its type and scope, and set its limits. A resource quota, for example, caps VMs, CPUs, memory and storage.

The screenshot shows the 'Create New Policy' dialog box in the UnityOne AI interface. The dialog has a title bar with 'Unity Setup', 'Policy', and 'Create Policy' tabs. The 'Create Policy' tab is active. The dialog contains the following fields and controls:

- Policy Name\***: A text input field with the placeholder 'Enter Name'.
- Description\***: A text input field with the placeholder 'Enter Description'.
- Policy Type\***: A dropdown menu currently showing 'Resource Quota'.
- Scope\***: A dropdown menu showing 'Select Scope'.
- Select Scope Identifier**: A dropdown menu.
- Max VMs**: A numeric input field with the value '1'.
- Max CPUs**: A numeric input field with the value '1'.
- Max Memory**: A numeric input field with the value '512' and a unit dropdown menu showing 'MB'.
- Max Storage**: A numeric input field with the value '10' and a unit dropdown menu showing 'GB'.
- Buttons**: 'Cancel' and 'Create' buttons at the bottom right.

### How policies drive automation

#### Auto-scaling

Scale out automatically when demand rises, for example when CPU goes above 80%.

#### Resource quota

Stop teams from provisioning beyond their agreed VMs, CPUs, memory and storage.

#### Tagging and naming

Keep tags and names consistent so every cost and asset is easy to trace.

#### Cost control

Flag waste, such as unused disks, and trigger an alert or clean-up.

# Back up every network configuration automatically

Keep a safe copy of every switch and router configuration, and see backup status across your network at a glance.

**Device Groups**

Status: All Selected | Datacenter: Select | Device Type: Select Device Type | Manufacturer: Select Manufacturer | Model: Select | Collector: Select Collector | Apply

Total Devices: 9 | Backedup: 2 | Not Backedup: 7 | Backedup Since 24 Hours: 2

| Name                           | IP Address    | Manufacturer | Model          | Status | Last Backup            | Actions |
|--------------------------------|---------------|--------------|----------------|--------|------------------------|---------|
| New-3850-Test-Switch.sdxjlocal | 172.17.12.16  | CISCO        | WS-C3850-48T-E | ●      | May 20, 2025, 15:19:28 | [Icons] |
| DC-Core-SW-2                   | 172.16.47.254 | CISCO        | NEXUS 9332PQ   | ●      | May 20, 2025, 15:17:09 | [Icons] |

Showing 1 to 2 of 2 entries

**History**

| Backup Name                                               | Date                   | Duration                   | Executed By | Action  |
|-----------------------------------------------------------|------------------------|----------------------------|-------------|---------|
| New-3850-Test-Switch.sdxjlocal_2025-05-20-09-49-09-120744 | May 20, 2025, 15:19:28 | 0 days 11 hours 57 minutes | [User]      | [Icons] |
| New-3850-Test-Switch.sdxjlocal_2025-05-20-09-48-57-725049 | May 20, 2025, 15:19:09 | 0 days 11 hours 57 minutes | [User]      | [Icons] |

Showing 1 to 2 of 2 entries

## Filter your network

By status, data center, device type, manufacturer, model or collector.

## Backup status at a glance

Backed up, not backed up and backed up in the last 24 hours.

## Every device, every backup

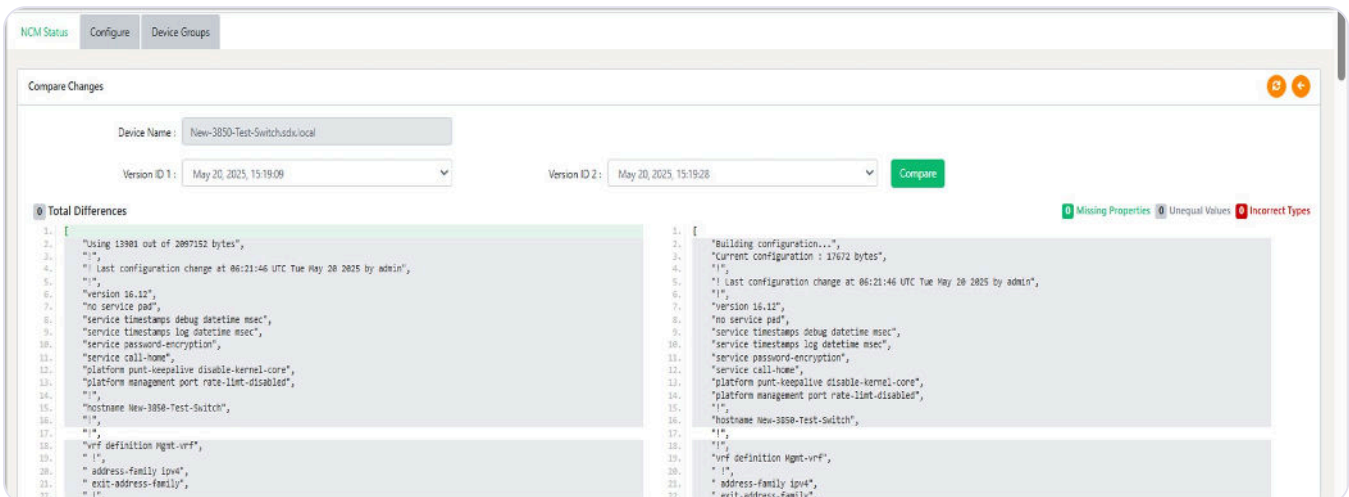
IP, manufacturer, model, status and last backup time.

## Full backup history

Every saved version with date and duration, ready to download.

# See exactly what changed, and when

Compare any two saved configurations side by side to spot drift and recover faster when something breaks.



## Compare any two versions

Pick two saved configurations and see them side by side.

## Spot configuration drift

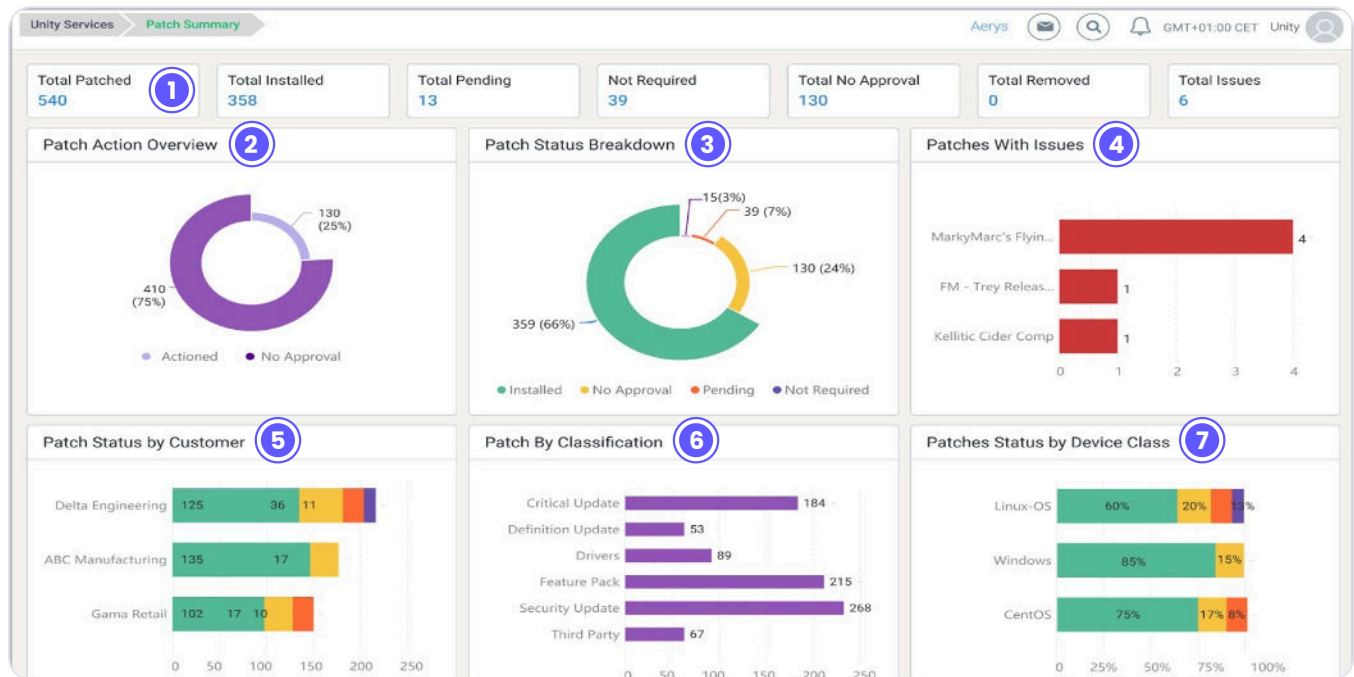
Missing properties, unequal values and incorrect types.

## Change audit trail

See when a configuration last changed and by whom.

# Keep every server patched and compliant

Track and manage operating system patches across your Windows and Linux servers from one place, with clear compliance views by customer, patch type and OS.



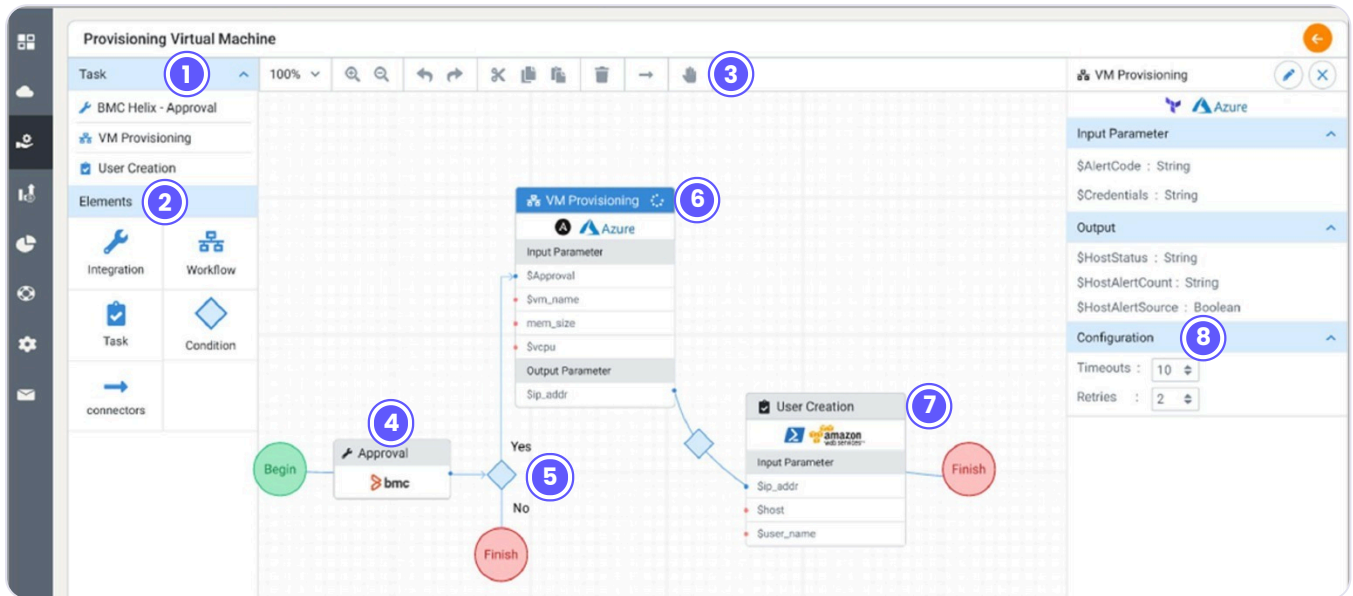
Patch summary dashboard in UnityOne.

- 1 Patch totals at a glance**  
Patched, installed, pending, not required, awaiting approval, removed and issues.
- 2 Approval tracking**  
See which patches have been actioned and which still need approval.
- 3 Status breakdown**  
Installed, pending, awaiting approval and not required, as a share of the total.
- 4 Patches with issues**  
Find failing patches fast and fix them first.
- 5 Status by customer**  
Patch progress for each customer or tenant.
- 6 By classification**  
Critical, security, definition, driver, feature pack and third-party updates.
- 7 By device class**  
Compare patch compliance across Linux, Windows and CentOS servers.

**Why it matters:** fewer security gaps, audit-ready compliance reporting and less manual effort for your operations team.

# Automate end-to-end tasks like building blocks

Connect approvals, provisioning and configuration steps across your ITSM tools, private clouds and public clouds in a visual drag-and-drop editor.



- 1 Ready-made tasks**  
Reuse building blocks such as BMC Helix approval, VM provisioning and user creation.
- 2 Drag-and-drop elements**  
Integrations, workflows, tasks, conditions and connectors.
- 3 Visual editor**  
Zoom, undo, copy, paste, connect and pan right on the canvas.
- 4 Approvals built in**  
Add an ITSM approval step, such as BMC Helix, before anything runs.
- 5 Conditional logic**  
Branch on the outcome, for example stop if a request is rejected.
- 6 Multicloud actions**  
Provision a VM in Azure using automation tools such as Ansible and Terraform.
- 7 Chain steps together**  
Pass outputs, like a new VM's IP address, into the next step, such as creating a user on AWS.
- 8 Configure every step**  
Set input and output parameters, timeouts and retries.

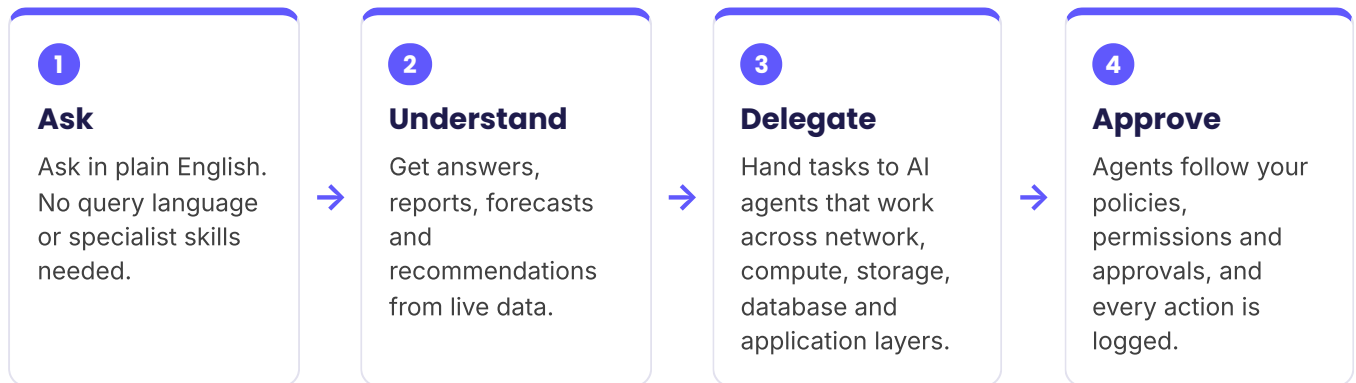
## Integrates with the tools you already use

ITSM, ticketing, CI/CD and infrastructure automation



# Delegate operations to AI, on your terms

Built into the DCIM dashboard, the LUMI™ AI copilot lets you ask, automate, resolve or launch AI agents from one conversational interface, with human-in-the-loop (HITL) governance, whatever your level of infrastructure expertise.



**Work you could hand to your coworker**  
*Illustrative examples*

"Which cabinets have at least 10U free and enough power for two new servers?"

"Why is this rack running hot, and what should we change?"

"Show me what changed on our core switches since last week."

"Forecast storage use for the next 90 days and flag anything that will run out."

**Built-in safeguards**

- **Human in the loop:** you approve what matters before it runs
- **Guardrails:** agents act only within predefined policies and permissions
- **Private AI:** runs in a private AI environment
- **Full audit trail:** role-based access and a record of every action

**20–30%**  
**Faster resolution**

**40–60%**  
**Less manual work**

**~90%**  
**Routine ops automated with multi-agent workflows**

**1**  
**Consolidated incident knowledge base**

# Agentic intelligence, built into your operations

CERNE brings agentic intelligence into cloud operations, so the platform can analyze signals, surface recommendations and orchestrate actions across the environment. Use the agents we provide, or build your own.



## Prebuilt specialized agents

Deploy from a suite of prebuilt agents for network, compute, database, FinOps and ITSM.



## Agent Builder

Create and customize AI agents and workflows with a no-code or low-code model aligned to enterprise automation.



## Orchestration engine

Coordinate multi-agent workflows across hybrid and multicloud operations through a central execution layer.



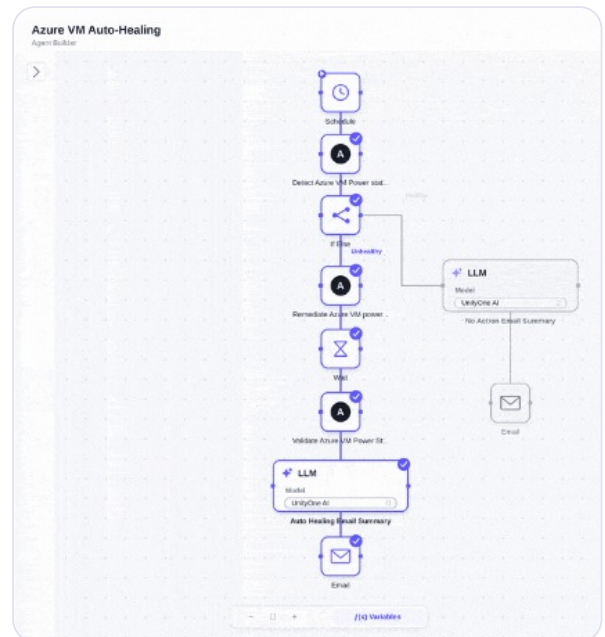
## Governed within guardrails

Run policy-driven automation with human-in-the-loop governance and operational oversight.



## Always stateful

Agents operate with infrastructure awareness and full operational context, not isolated prompts.



Agent Builder: an Azure VM auto-healing agent.

## How the auto-healing agent works

1

Run on a schedule

2

Detect the Azure VM power state

3

Branch if unhealthy

4

Remediate the VM

5

Wait, then validate

6

LLM writes a summary

7

Email the team

# Technical specifications at a glance

What Cerne™ DCIM discovers, monitors, integrates with and how it is deployed.

| Area                  | Specification                                                                                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Discovery protocols   | Agentless: SNMP v1/v2c/v3, REST/API, Redfish, SSH, WMI. Network topology through LLDP and CDP. Scheduled discovery and discovery policies.                          |
| Compute               | Bare metal servers, hyperconverged infrastructure (HCI), virtualization hosts, GPU servers, database servers, storage arrays.                                       |
| Non-compute           | Racks and cabinets, intelligent rack PDUs, UPS, temperature, humidity and airflow sensors, RFID tags, BMS interfaces, CRAC/CRAH units.                              |
| Private cloud         | API-based discovery for VMware vCenter, Nutanix, Microsoft Hyper-V, OpenStack and Proxmox.                                                                          |
| Public cloud          | Microsoft Azure, AWS, Oracle Cloud and Google Cloud, including topology and cost views.                                                                             |
| Containers            | Kubernetes and container controllers such as Docker.                                                                                                                |
| Network               | Switches, routers, firewalls, load balancers, wireless access points and controllers, VoIP. Configuration backup, history and compare.                              |
| Databases             | PostgreSQL, MySQL, Oracle.                                                                                                                                          |
| Event intelligence    | Suppression, deduplication and noise reduction. AI/ML correlation by topology, timestamp and text similarity, single and cross domain.                              |
| Automation            | Policy-driven automation (auto-scaling, resource quota, tagging, compliance, cost). Composable workflows. OS patching. Scripts in Python, Shell and Bash.           |
| Integrations          | ITSM: ServiceNow, BMC Helix, Jira, ManageEngine (ticketing, CMDB sync, service catalog). Automation: Ansible, Terraform, Jenkins.                                   |
| AI                    | LUMI™ AI copilot, prebuilt specialized agents, Agent Builder (no-code or low-code), multi-agent orchestration, human-in-the-loop approvals, private AI environment. |
| Security & governance | Role-based access control, full audit trail, identity and access integration, security and compliance tool integration.                                             |
| Deployment            | SaaS or on-premises. Multi-tenant architecture with persona-based dashboards.                                                                                       |

PROOF · CUSTOMER STORY

## A Tier III colocation operator recovers ~40% of stranded capacity

### THE CHALLENGE

The client couldn't tell how much usable capacity was actually left. Manual records and siloed power information hid usable rack space, outlet-level utilization and cooling headroom. That raised the risk of unnecessary capex.

### THE SOLUTION

Agentless discovery and outlet-level power monitoring created a live view of utilization across every rack. Scenario planning then tested new deployments against real space, power and cooling headroom.

**~40%**

Stranded rack and power capacity recovered

**15–25%**

Better rack utilization through real-time power monitoring

**Up to 25%**

Less planning time once manual spreadsheets were removed

**~15–20%**

Lower energy consumption

The operator also deferred multi-million-dollar build or lease spend by using its existing space, power and cooling more effectively.

### GET STARTED

## See Cerne™ DCIM in action

Explore the platform hands-on in the UnityOne AI Playground, or talk to our team about your data center, colocation or hybrid environment.

▶ Enter Playground

✉ Contact Us

Email: [contact@unityone.ai](mailto:contact@unityone.ai) · Playground: [cerne.unityone.ai](https://cerne.unityone.ai) · Web: [unityone.ai](https://unityone.ai)

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