

TIDAL LIGHTMESH | NETWORK INTELLIGENCE FOR CLOUD AND HYBRID NETWORKS

# Network intelligence you can trust.

LightMesh is a core system of record for your network. It turns scattered address data into answers: what you have, what is using it, who owns it, and what changed.

SaaS or self-hosted

Read-only discovery

API and CLI

IPv4 and IPv6

DHCP Servers / EC2AMAZ-8NQRST9

## EC2AMAZ-8NQRST9

| Status | Address     | OS             | Last Synced           |
|--------|-------------|----------------|-----------------------|
| Active | 10.50.0.117 | Microsoft DHCP | 5/12/2026, 3:28:05 PM |

Scopes

Search by name, range or subnet  Status  Zone

| Status | Scope Name   | Range                      | Utilization | Active leases | Parent Subnet |
|--------|--------------|----------------------------|-------------|---------------|---------------|
| Active | Lab-Scope-01 | 10.60.0.10 - 10.60.7.254   | 100%        | 2037          | 10.60.0.0/21  |
| Active | Lab-Scope-02 | 10.60.8.10 - 10.60.15.254  | 100%        | 2037          | 10.60.8.0/21  |
| Active | Lab-Scope-03 | 10.60.16.10 - 10.60.23.254 | 100%        | 2037          | 10.60.16.0/21 |
| Active | Lab-Scope-04 | 10.60.24.10 - 10.60.31.254 | 100%        | 2037          | 10.60.24.0/21 |
| Active | Lab-Scope-05 | 10.60.32.10 - 10.60.39.254 | 100%        | 2037          | 10.60.32.0/21 |
| Active | Lab-Scope-06 | 10.60.40.10 - 10.60.47.254 | 100%        | 2037          | 10.60.40.0/21 |
| Active | Lab-Scope-07 | 10.60.48.10 - 10.60.55.254 | 100%        | 2037          | 10.60.48.0/21 |
| Active | Lab-Scope-08 | 10.60.56.10 - 10.60.63.254 | 36%         | 741           | 10.60.56.0/21 |

Microsoft DHCP scopes and utilization

## WHY TEAMS MOVE TO LIGHTMESH

Address data is scattered across spreadsheets, DHCP servers, cloud consoles, and DIY tools like phpIPAM, so every subnet request, migration, and audit starts with manual reconciliation. LightMesh keeps that record maintained for you, so your team runs the network, not the IPAM plumbing.

## HOW LIGHTMESH BUILDS NETWORK INTELLIGENCE

Every integration makes the network model smarter.

### Discover

Read-only sync from DHCP, AWS, Azure, and Meraki, plus ping sweep and imports.

### Understand

One search across every subnet and IP, plus TreeView for the full hierarchy.

### Plan

Design IPv4 and IPv6 space visually, prevent overlaps, and reserve ranges before go-live.

### Govern

Track ownership, approvals, and change history across your address space.

Start free at [tidalcloud.com/lightmesh](https://tidalcloud.com/lightmesh)

Free tier: under 1,000 IPs, 1 user, no credit card

# Capabilities, deployment, and use cases

For network, infrastructure, and cloud platform teams moving off spreadsheets, phpIPAM or homegrown tools, or legacy IPAM and DDI.

## DATA SOURCES

Read-only: LightMesh never pushes configuration to your systems.

Microsoft DHCP

Ping sweep

AWS VPC

Azure VNet

Cisco Meraki

CSV and XLSX import

## Discover and reconcile

- Discovery Agent reads Microsoft DHCP scopes, leases, and reservations.
- Ping sweep on subnets an Owner or Administrator selects. Hosts that drop ICMP can look down.
- Read-only sync from AWS, Azure, and Cisco Meraki Cloud Accounts.

## Understand

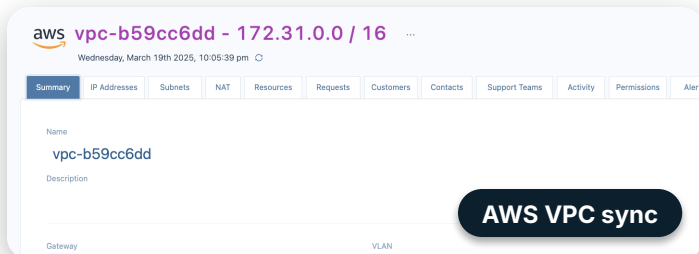
- One search across subnets, IP assignments, and contacts.
- TreeView and Network Containers group subnets by site, zone, cloud, or business unit.
- Network usage reporting shows subnet utilization.

## Plan

- Visual Subnet Planner: divide a parent block into the sizes you need.
- Prevent overlapping ranges before VPC peering, new sites, or acquisitions.
- Plan IPv4 and IPv6 space and reserve ranges early.

## Govern and automate

- Ownership, typed custom fields, and NAT records on each IP assignment.
- RBAC, ITSM support groups, and Requestor workflow for approvals.
- Audit and change history, plus the lightmesh CLI and authenticated GraphQL API.



aws vpc-b59cc6dd - 172.31.0.0 / 16

Wednesday, March 19th 2025, 10:05:39 pm

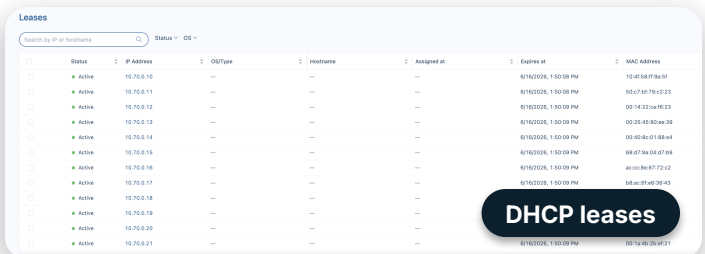
Summary IP Addresses Subnets NAT Resources Requests Customers Contacts Support Teams Activity Permissions Alerts

Name  
vpc-b59cc6dd

Description

Gateway VLAN

**AWS VPC sync**



Leases

Search by IP or hostname Status: On

| IP         | Status | IP Address | OS/Type | Interface | Assigned at | Expires at            | MAC Address       |
|------------|--------|------------|---------|-----------|-------------|-----------------------|-------------------|
| 10.70.0.10 | Active | 10.70.0.10 | ...     | ...       | ...         | 6/16/2025, 1:00:00 PM | 10:40:08:00:00:00 |
| 10.70.0.11 | Active | 10.70.0.11 | ...     | ...       | ...         | 6/16/2025, 1:00:00 PM | 00:c7:74:7b:0c:23 |
| 10.70.0.12 | Active | 10.70.0.12 | ...     | ...       | ...         | 6/16/2025, 1:00:00 PM | 00:14:22:0a:00:23 |
| 10.70.0.13 | Active | 10.70.0.13 | ...     | ...       | ...         | 6/16/2025, 1:00:00 PM | 00:25:40:80:00:29 |
| 10.70.0.14 | Active | 10.70.0.14 | ...     | ...       | ...         | 6/16/2025, 1:00:00 PM | 00:40:0c:01:00:04 |
| 10.70.0.15 | Active | 10.70.0.15 | ...     | ...       | ...         | 6/16/2025, 1:00:00 PM | 08:47:7b:0a:00:00 |
| 10.70.0.16 | Active | 10.70.0.16 | ...     | ...       | ...         | 6/16/2025, 1:00:00 PM | ac:00:00:00:00:00 |
| 10.70.0.17 | Active | 10.70.0.17 | ...     | ...       | ...         | 6/16/2025, 1:00:00 PM | 00:00:00:00:00:00 |
| 10.70.0.18 | Active | 10.70.0.18 | ...     | ...       | ...         | 6/16/2025, 1:00:00 PM | 00:00:00:00:00:00 |
| 10.70.0.19 | Active | 10.70.0.19 | ...     | ...       | ...         | 6/16/2025, 1:00:00 PM | 00:00:00:00:00:00 |
| 10.70.0.20 | Active | 10.70.0.20 | ...     | ...       | ...         | 6/16/2025, 1:00:00 PM | 00:00:00:00:00:00 |
| 10.70.0.21 | Active | 10.70.0.21 | ...     | ...       | ...         | 6/16/2025, 1:00:00 PM | 00:00:00:00:00:00 |

**DHCP leases**

## Deployment and security

- SaaS hosted by Tidal on AWS, or self-hosted Docker on Ubuntu LTS, AWS, or Azure
- Discovery Agent on Windows Server or Server Core
- API keys hashed at rest, SSO, and custom SAML
- SOC 2 Type II (LightMesh in scope); report on request

## Common use cases

- Replace spreadsheets, phpIPAM, or DIY IPAM
- Migrate from SolarWinds, Infoblox, or Easy-IP
- Plan cloud subnets and avoid overlapping CIDRs
- Untangle overlapping ranges after an acquisition
- Answer who owned an IP, and when, for audits

Self-hosted, RBAC, support groups, Requestor workflow, and custom SAML are Enterprise features.

*"Seeing our network visually makes IP address management incredibly simple and intuitive."*

Brian Peterlin, Network Architect at ULSE

Start free

[tidalcloud.com/lightmesh](https://tidalcloud.com/lightmesh)

Free Subnet Planner:

[next.lightmesh.com/planner](https://next.lightmesh.com/planner)

