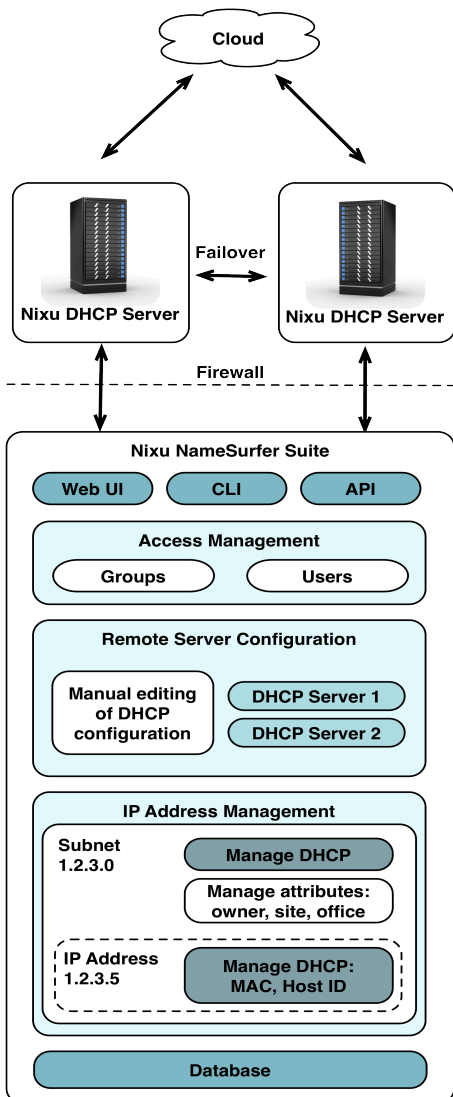


Nixu DHCP Server is a virtualizable DHCP software appliance streaming the operational routines associated with running a DHCP service. With automated software update process and support for centralized management via Nixu NameSurfer Suite IPAM, it slashes the Operational Expenses (OPEX) associated with traditional DHCP server products.

Increase Level of Availability and Network Security with Nixu DHCP Server

The average number of IP addresses per user is constantly on the rise. This trend caused by the rapidly increasing use of mobile clients, the introduction of IPv6 and the growing number of IP-based devices is expected to continue growing dramatically over the coming years. This calls for resilient DHCP service that is efficiently managed and can be scaled up easily to cope with increasing loads. Without such a service, workstations, WLAN-enabled laptops, VoIP clients and other mission-critical devices will not be able to perform as intended. Nixu DHCP Server introduces a new level of platform independence and simplifies the day-to-day management routines associated with running a DHCP server while increasing network security and availability.

Nixu DHCP Server as Part of an End-to-End Nixu DDI Solution



Key Features

- GUI-based user-friendly management tools reducing OPEX
- Automated validation of DHCP configurations
- Support for all DHCPD options on global and subnet level
- Native support for asymmetric DHCP failover
- Support for dynamic DNS, DHCPv4 and DHCPv6
- Monitoring utility for IP pool utilization levels performance
- Monitoring utility for leases per second performance
- Support for centralized management via Nixu NameSurfer IPAM
- Scales up to hundreds of leases per second on a suitable platform
- Distributed as software appliance with hardened Linux OS and IPS
- Supports any RHEL-compliant native or virtual x86-based platform
- Automated software maintenance process to slash OPEX
- Certified as VMWare and Citrix Ready

Key Benefits

- Jump-start optimized and secure DHCP servers in minutes
- Slash OPEX through automated software updates and centralized management
- Manage DHCP service locally via user-friendly GUI or centrally from Nixu NameSurfer IPAM
- Enhance availability with always-on DHCP service with native failover support
- Monitor DHCP performance and pool allocation levels
- Support emerging networking standards (IPv6, DHCPv6)
- Run DHCP servers on native and/or virtual x86 platforms
- Ideal solution for cloud computing initiatives with virtualized DHCP service

Subnet	Network	Location	Dynamic	Description	Select
10.0.0.0	255.255.255.128	shared-network	10.0.0.2 - 10.0.0.10	Demo subnet	<input type="checkbox"/>
10.0.0.0	255.255.255.224	shared-network		Added automatically to match listening network int.	<input type="checkbox"/>
192.168.0.0	255.255.255.0	net_network	192.168.0.100 - 192.168.0.200	Created by NameSurfer IPAM	<input type="checkbox"/>
192.168.0.0	255.255.255.0	group_netgroup	192.168.0.30 - 192.168.0.40	Created by NameSurfer IPAM	<input type="checkbox"/>
192.168.0.0	255.255.255.0	shared-network		Added automatically to match listening network int.	<input type="checkbox"/>
200.1.0.0	255.255.255.128	shared-network shared	200.1.0.1 - 200.1.0.10	Created by NameSurfer IPAM	<input type="checkbox"/>
200.1.0.0	255.255.255.128	shared-network shared		Created by NameSurfer IPAM	<input type="checkbox"/>
200.30.10.0	255.255.255.0	shared-network		Created by NameSurfer IPAM	<input type="checkbox"/>

Subnet lists

Subnet	Network	Addresses	Active leases by range
10.0.0.0	255.255.255.128	126	10.0.0.2 - 10.0.0.10 - 9 IPs, 0 in use (0%)
80.75.107.64	255.255.255.224	30	no ranges
192.168.0.0	255.255.255.0	254	192.168.0.100 - 192.168.0.200 - 101 IPs, 0 in use (0%)
192.168.0.0	255.255.255.0	254	192.168.0.30 - 192.168.0.40 - 11 IPs, 0 in use (0%)
200.1.0.0	255.255.255.128	126	no ranges
200.1.0.0	255.255.255.128	126	200.1.0.1 - 200.1.0.10 - 10 IPs, 0 in use (0%)
200.30.10.0	255.255.255.0	254	no ranges

View statistics

Failover details:

Default failover peer:

My role:

Connection name:

Remote server's address:

Remote server's admin username:

Remote server's password:

Configuration synchronization: Selected containers and global configuration (including hosts, zones, keys)

Available members: (shared-network domainname, shared-network shared, shared-network list_network, group_netgroup, group_netgroup, shared-network, subnet 192.168.10.0/24)

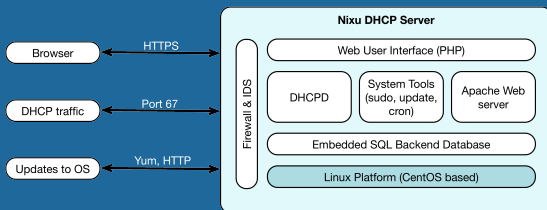
Selected Members:

Failover member selection:

Triggin:

Advanced options:

Edit failover settings



The architecture of Nixu DHCP Server

Simplified Management

- Simplify DHCP server management process with:
 - user-friendly GUI designed for system management
 - tools and validations for advanced DHCP configurations
 - automated log rotation
 - built-in support for syslog forwarding
 - easy backup process managed via GUI
 - patch management with support for automated software updates
- Convert dynamic IP allocations to static on the fly
- Provide real-time reports of allocated IP addresses
- Integrate Nixu DHCP Servers with central Nixu NameSurfer IPAM overlay to:
 - manage bindings between subnets and individual DHCP servers
 - configure dynamic ranges for subnets managed in IPAM
 - assign static IP addresses to clients based on MAC authentication
 - monitor subnet allocation levels in real-time
 - receive alerts when pre-defined allocation levels are exceeded
 - monitor leases per second performance in real-time
- Manage DHCP failover pairs from a single GUI
- Practical migration tools available for MS DHCP and ISC-DHCPD

Increased Security

- Secure access to Nixu DHCP Servers with built-in support for SSL and user authentication
- Communicates with Nixu NameSurfer IPAM using signatures and encrypted API connections
- Assign fixed IP addresses to clients using MAC authentication
- Built-in intrusion prevention system blocking abnormal network traffic

High Availability & Scalability

- Simple backup facilitates quick disaster recovery
- Embedded SQL backend for high performance
- Deploy as highly available DHCP failover clusters on native x86-based hardware
- Deploy as highly available virtual machine in VMWare or Citrix environments
- Monitor DHCP performance centrally from Nixu NameSurfer Suite IPAM module
- Monitor IP pool allocation levels centrally from Nixu NameSurfer Suite IPAM module
- Scales to hundreds of leases per second on suitable platform
- Automatic configuration sync between DHCP failover clusters

Platform Support

- Citrix XenServer
- VMWare Server & ESX Server
- Any RHEL-compliant x86 server

Note: Nixu software continuously develops its products. For the latest information, please refer to our website.

