



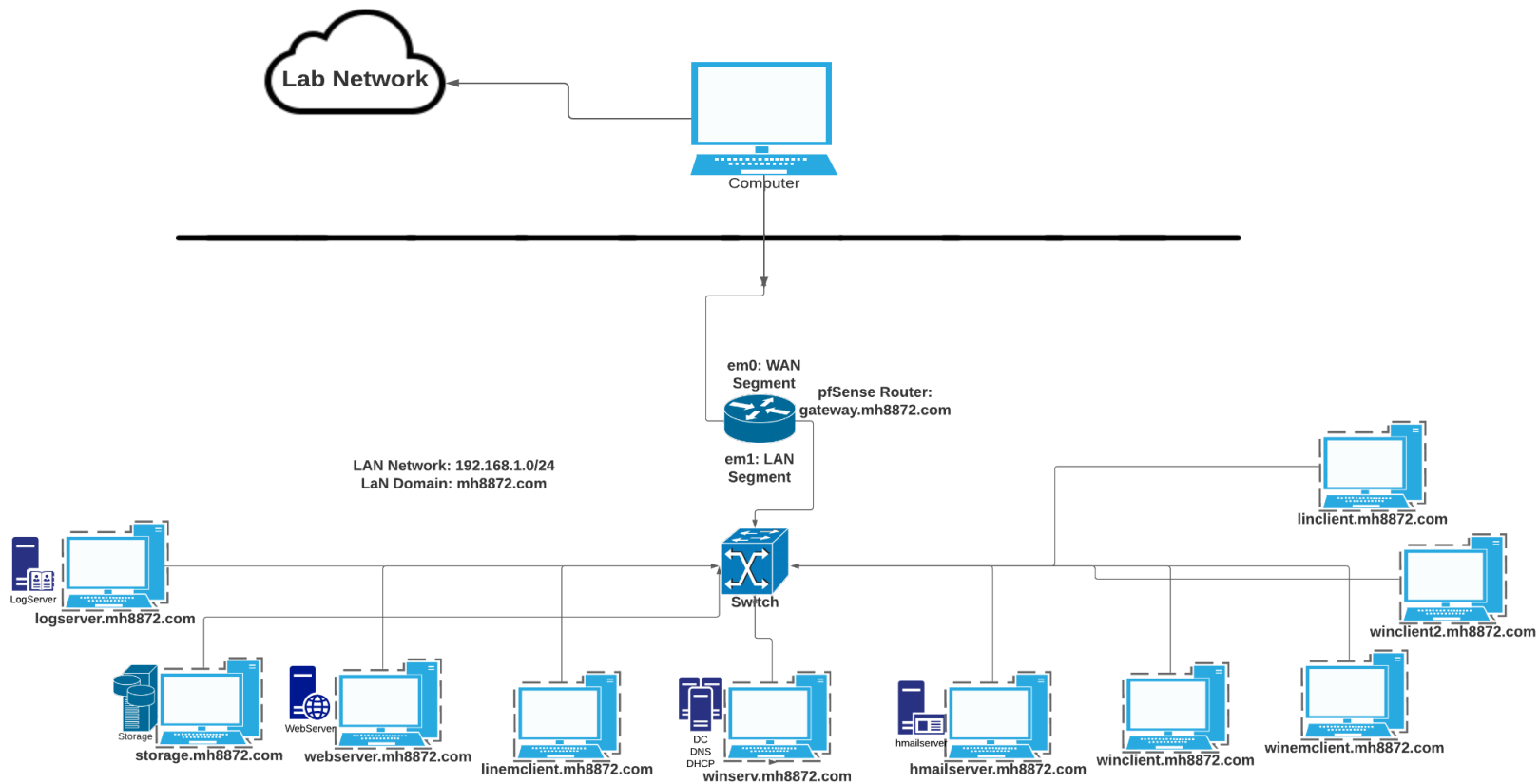
**Domain: mh8872.com**

**Network: 192.168.1.0/24**

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**Last Updated: 3 Dec 2021**

# Network Topology & Machine NIC Details



Hostname	MAC address	IP address (Static/Dynamic)	Network Mask	Domain	Default Gateway	Preferred DNS Server	Alternate DNS Server
gateway	em0: 00:50:56:B0:70:61 em1: 00:50:56:B0:59:60	WAN(em0): 192.168.204.78/24 (Dynamic) LAN(em1): 192.168.1.254/24 (Static)	255.255.255.0	<a href="#">mh8872.com</a>	Lab Network	Primary: 192.168.1.1/24	Secondary: 129.21.3.17/24
winserv	00-50-56-B0-6D-11	192.168.1.1/24 (Static)	255.255.255.0	<a href="#">mh8872.com</a>	192.168.1.254/24	192.168.1.1/24	8.8.8.8
storage	00:50:56:B0:80:D4	192.168.1.100/24 (Static)	255.255.255.0	<a href="#">mh8872.com</a>	192.168.1.254/24	192.168.1.1/24	8.8.8.8
webserver	00:50:56:B0:AD:44	192.168.1.2/24 (Static)	255.255.255.0	<a href="#">mh8872.com</a>	192.168.1.254/24	192.168.1.1/24	8.8.8.8
logserver	00:50:56:B0:5B:78	192.168.1.4/24 (Static)	255.255.255.0	<a href="#">mh8872.com</a>	192.168.1.254/24	192.168.1.1/24	8.8.8.8
linclient	00:50:56:B0:D0:B0	192.168.1.7/24 (Static)	255.255.255.0	<a href="#">mh8872.com</a>	192.168.1.254/24	192.168.1.1/24	8.8.8.8
linemclient	00:50:56:B0:2D:71	192.168.1.13/24 (Dynamic)	255.255.255.0	<a href="#">mh8872.com</a>	192.168.1.254/24	192.168.1.1/24	8.8.8.8
winclient	00-50-56-B0-C5-D0	192.168.1.17/24 (Dynamic)	255.255.255.0	<a href="#">mh8872.com</a>	192.168.1.254/24	192.168.1.1/24	8.8.8.8
hmailserver	00-50-56-B0-A1-F5	192.168.1.3/24 (Static)	255.255.255.0	<a href="#">mh8872.com</a>	192.168.1.254/24	192.168.1.1/24	8.8.8.8
winemclient	00-50-56-B0-78-5C	192.168.1.16/24 (Dynamic)	255.255.255.0	<a href="#">mh8872.com</a>	192.168.1.254/24	192.168.1.1/24	8.8.8.8
winclient2	00-50-56-B0-D5-0E	192.168.1.10/24 (static)	255.255.255.0	<a href="#">mh8872.com</a>	192.168.1.254/24	192.168.1.1/24	8.8.8.8

Hosts files on storage, winclient2, and linclient consists of		
192.168.1.7	linclient.mh8872.com	linclient
192.168.1.10	winclient2.mh8872.com	winclient2
192.168.1.100	storage.mh8872.com	storage
192.168.1.254	gateway.mh8872.com	gateway

**Note: Adding Hosts in winserv server Manager --> Dashboard --> Tools --> DNS (DNS Manager), Also Does the same thing!**

# DNS Manager Examples

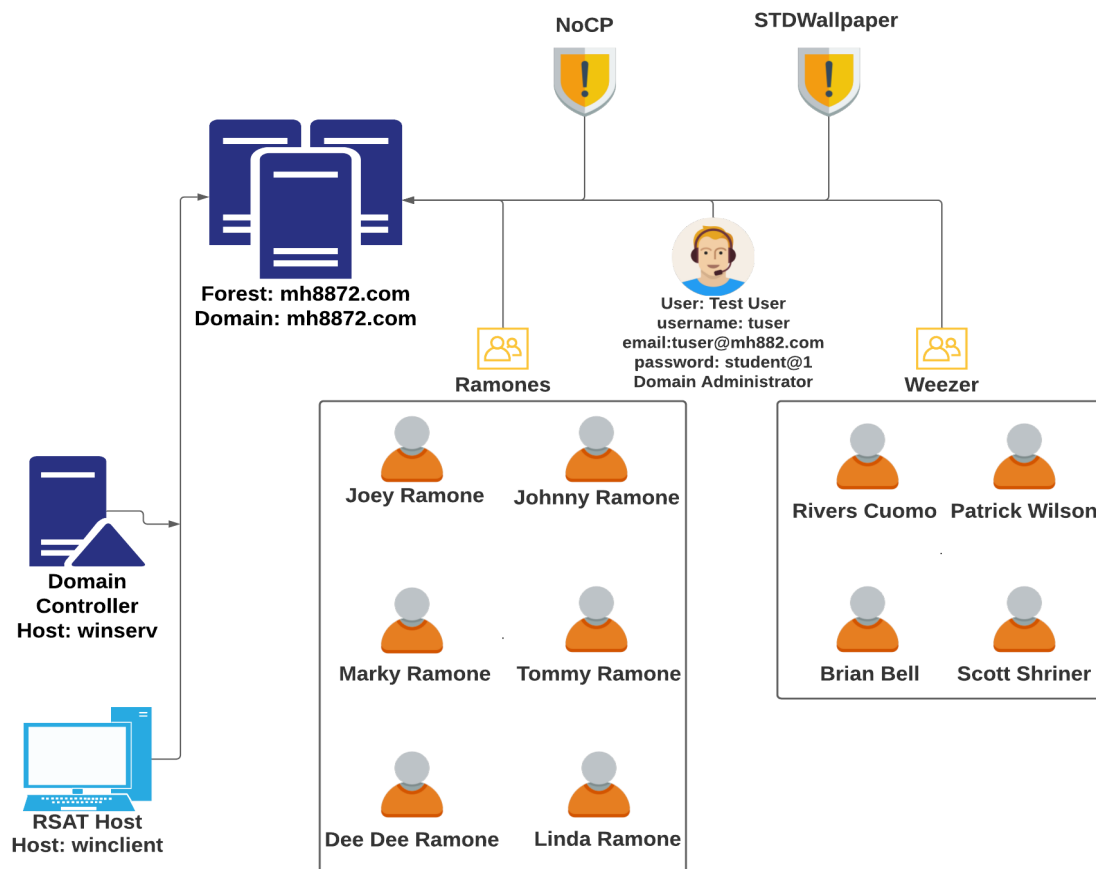
The screenshot shows the DNS Manager console tree with 'mh8872.com' selected under 'Forward Lookup Zones'. A right-click context menu is open, and 'New Host (A or AAAA)...' is highlighted. The main pane displays a list of DNS records for the selected zone.

Name	Type	Data	Timestamp
_msdcs			
_sites			
_tcp			
(same as parent folder)	Start of Authority (SOA)	[52], winserv.mh8872.com...	static
(same as parent folder)	Name Server (NS)	winserv.mh8872.com.	static
(same as parent folder)	Host (A)	192.168.1.1	11/28/2021
gamora	Alias (CNAME)	webserver.mh8872.com.	static
hmailserver	Host (A)	192.168.1.3	static
linclient	Host (A)	192.168.1.7	12/3/2021
logserver	Host (A)	192.168.1.4	static
starlord	Alias (CNAME)	webserver.mh8872.com.	static
webserver	Host (A)	192.168.1.2	static
winclient	Host (A)	192.168.1.17	12/1/2021
winserv	Host (A)	192.168.1.1	static
www	Alias (CNAME)	webserver.mh8872.com.	static

The screenshot shows the DNS Manager console tree with 'mh8872.com' selected. The main pane displays a comprehensive list of DNS records for the zone.

Name	Type	Data	Timestamp
_msdcs			
_sites			
_tcp			
_udp			
DomainDnsZones			
ForestDnsZones			
(same as parent folder)	Start of Authority (SOA)	[52], winserv.mh8872.com...	static
(same as parent folder)	Name Server (NS)	winserv.mh8872.com.	static
(same as parent folder)	Host (A)	192.168.1.1	11/28/2021 4:00:00 PM
gamora	Alias (CNAME)	webserver.mh8872.com.	static
hmailserver	Host (A)	192.168.1.3	static
linclient	Host (A)	192.168.1.7	12/3/2021 7:00:00 AM
logserver	Host (A)	192.168.1.4	static
starlord	Alias (CNAME)	webserver.mh8872.com.	static
webserver	Host (A)	192.168.1.2	static
winclient	Host (A)	192.168.1.17	12/1/2021 11:00:00 AM
winserv	Host (A)	192.168.1.1	static
www	Alias (CNAME)	webserver.mh8872.com.	static

## Active Directory Topology, Groups, Users, OU's, and Groups Policy Links



Organizational Unit: Ramones				
Name	Sam Name	User Principal Name	Group	Additional Information
Joey Ramone	joeyr	joeyr@mh8872.com	Domain User	Leader Singer, 12-1789 x3456
Johnny Ramone	johnnyr	johnnyr@mh8872.com	Domain User	Guitarist, 34-1797 x3456
Marky Ramone	markyr	markyr@mh8872.com	Domain User	Drummer 23-1801 x5675
Tommy Ramone	tommyr	tommyr@mh8872.com	Domain User	Drummer Bldg. 34 Office 1809 x5678
Dee Dee Ramone	deer	deer@mh8872.com	Domain User	Bassist Bldg. 34 Office 1817 x5638
Linda Ramone	lindar	lindar@mh8872.com	Domain User	Roadie Bldg. 12-1837 Ext. 6748
Organizational Unit: Weezer				
Rivers Cuomo	rcuomo	rcuomo@mh8872.com	Domain User	Lead Guitar, Bldg. 57-1841 Ext. 5624
Patrick Wilson	pwilson	pwilson@mh8872.com	Domain User	Drummer, Ext. 6745 Bldg. 21-1841
Brian Bell	bbell	bbell@mh8872.com	Domain User	Vocals, Ext. 6734 Bldg. 52-1845
Scott Shriner	sshriner	sshriner@mh8872.com	Domain User	Basists, Ext. 5197 Bldg. 54-1849
Group Policy Links				
Name	Function	Enforce Level		
NoCP	Deny access to Control Panel	Domain		
STDWallpaper	Sets Standard wallpaper	Domain		

# Software Information

FQDN	OS Version & Build Info	Software/package	Software Version	Description
gateway.mh8872.com	pfSense: 2.4.4-RELEASE-p3 (amd 64)	None	None	Only LAN network is static
winserv.mh8872.com	OS: Windows Server 2019 Datacenter Version: 10.0.17763 Build: 17763	None	None	ADDS, DNS, and DHCP roles were install, and winserv is a Domain Controller (DC)
storage.mh8872.com	OS: CentOS 8 Version: 8.5.2111	lsblk fdisk mdadm mkfs gdisk blkid vsftpd samba nfs-utils	version: 2.32.1 version: 2.32.1 version: 4.2-rc2 version: 2.32.1 version: 1.0.3 version: 2.32.1 version: 3.0.3 version: 4.14.5 version: 2.3.3	Has 8 extra drive each with 2GB storage
webserver.mh8872.com	OS: CentOS 8 Version: 8.5.2111	httpd.service openssl mod_ssl Crontabs	version: 2.4.37 version: 1.1.1k-4.el8.x86_64 version: 2.4.37 version: 1.11-17.20190603git	groupinstalled webserver
logserver.mh8872.com	OS: CentOS 8 Version: 8.5.2111	rsyslog	version: 8.2102.0-5.el8.x86_64	Was used to lishen to logs for webserver
linclient.mh8872.com	OS: CentOS 8 Version: 8.5.2111	realmd sssd oddjob oddjob-mkhomedir adcli git cockpit rsync lftp samba-client cifs-utils nfs-utils	version: 0.16.3 version: 2.5.2 version: 0.34.7 version: 0.34.7 version: 0.8.2 version: 2.27.0 version: 251.1-1.el8.x86_64 version: 3.1.3 version: 4.8.4 version: 4.15.5 version: 6.8-3.el8.x86_64 version: 2.3.3	It was used for many things. Such as host for tuser, nfs client, and samba client
linemclient.mh8872.com	OS: CentOS 8 Version: 8.5.2111	thunderbird	version: 91.3.0	CentOS 8 email client using thunderbird
winclient.mh8872.com	OS: Windows 10 Enterprise Version: 10.0.19042 Build: 19042	git	version: 2.34.1.windows.1	RSAT DNS Server Tools, RSAT DHCP Server Tools, RSAT ADDS & LightWeight Server Tools were installed  Turned on service for nfs
hmailserver.mh8872.com	OS: Windows 10 Enterprise Version: 10.0.19042 Build: 19042	hmailserver	version: 5.5.2-B2129	was a mail server for the email client.
winemclient.mh8872.com	OS: Windows 10 Enterprise Version: 10.0.19042 Build: 19042	eM client	version: 8.2.1659.0	windows email client using eM client software
winclient2.mh8872.com	OS: Windows 10 Enterprise Version: 10.0.18363 Build: 18363	None	None	was simply used for accesing samba share, and nfs export

# Hardware Information

Description	# of CPU or Cores	RAM Memory	Storage Memory	Partition	Mount Point
pfSense Router gateway.mh8872.com	1	512 MB	20 GB	None	None
Windows 10 Domain Controller, DNS Server, and DHCP Server winserv.mh8872.com	2	16384 MB	60 GB	None	None
CentOS 8 Storage Server storage.mh8872.com	1	4096 MB	56 GB	RAID 1: /dev/md01 /dev/md02 /dev/md05 RAID 5: /dev/md1p1 /dev/md1p2	Raid: /dev/sdb on /media/samba drive: sdb /dev/md0p1 on /media/nfs1 drives: sdc, sdd /dev/md0p5 on /media/nfs2 drives: sdc, sdd /dev/md1p1 on /media/samba1 drives: sde, sdf, sdg /dev/md1p2 on /media/smaba2 drives: sde, sdf, sdg  ----- Logical Volume: /dev/mapper/MyVolGroup-testLV on /media/MyLogVol drives: sdh, shi
CentOS 8 Web Server webserver.mh8872.com	1	4096 MB	40 GB	None	None
CentOS 8 Log Server logserver.mh8872.com	1	4096 MB	40 GB	None	None
CentOS 8 client linclient.mh8872.com	1	4096 MB	40 GB	None	storage:/media/nfs1/weezer on /media/nfsmount
CentOS 8 Email Client linemclient.mh8872.com	1	4096 MB	40 GB	None	None
Windows 10 Client winclient.mh8872.com	2	8192 MB	60 GB	None	None
Window 10 Email Server hmailserver.mh8872.com	2	8192 MB	60 GB	None	None
Windows 10 Email Client winemclient.mh8872.com	2	8192 MB	60 GB	None	None
Windows 10 Client 2 winclient2.mh8872.com	2	8192 MB	60 GB	None	storage:/media/nfs1/weezer on drive Z:



### **Words of wisdom from a great person**

Systems Administrators are the backbone of an IT infrastructure of a company and if someone knows your name beside the IT team, then you are not doing your job PROPERLY. "That means you had fix something that you set up before, and if you did your job right the first time, then you would've not had to fix it."