

# Wazuh

# **Assigning Wazuh Static IP Address**

Lab Created By: MUHAMMAD MOIZ UD DIN RAFAY

Follow Me: linkedin.com/in/moizuddinrafay

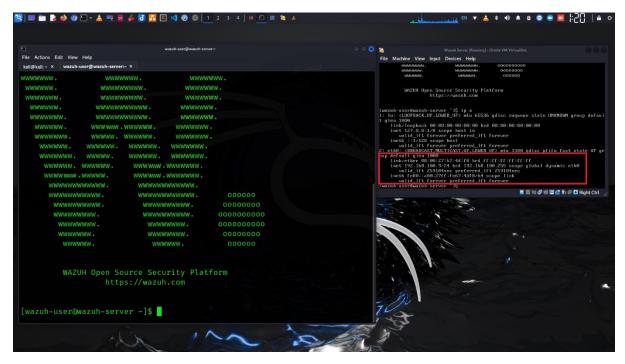
#### Importance of Assigning a Static IP Address to Your Wazuh Server

In a network infrastructure, ensuring stability and reliability is paramount, especially for critical components like security monitoring servers. Here's why assigning a static IP address to your Wazuh server is crucial:

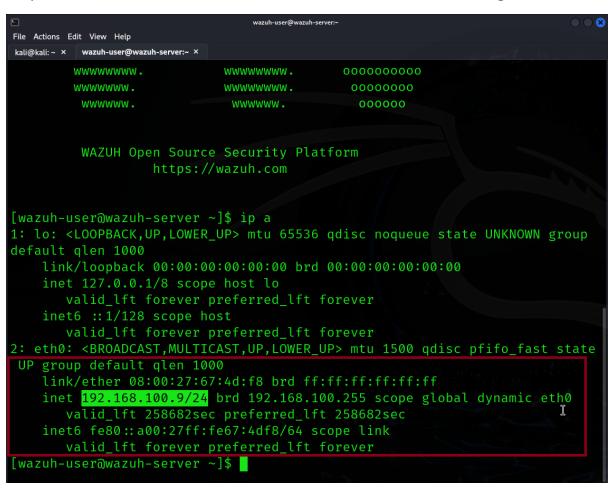
- **1. Consistent Configuration:** With a static IP, you maintain a consistent configuration. This stability is vital for network services like Wazuh, ensuring uninterrupted monitoring and alerting processes.
- **2. Ease of Management:** A static IP simplifies network management. It ensures that the Wazuh server is always reachable at the same address, streamlining administrative tasks such as remote access, firewall configurations, and DNS mappings.
- **3. Dependency in Distributed Environments:** In distributed environments or setups with multiple integrated systems, various services might rely on the Wazuh server's IP address. A static IP prevents disruption to these dependencies caused by dynamic address changes.
- **4. Enhanced Security:** Dynamic IP addresses can potentially introduce security risks, especially if they change frequently. Assigning a static IP to the Wazuh server helps in maintaining consistent firewall rules, access controls, and security policies tailored to its specific address.
- **5. Improved Logging and Analysis:** Static IP addresses aid in log analysis and correlation by providing a stable identifier for the Wazuh server across different network devices and services. This stability is valuable for forensic investigations and incident response.

Step 01: Check the current IP Address.

Command: ip a



Step 02: Connect Wazuh Server via SSH and find the IP Address again.



### Step 03: Access the configuration file "ifcfg-eth0"

Login in to root with

Go to location with: "cd /etc/sysconfig/network-scripts"

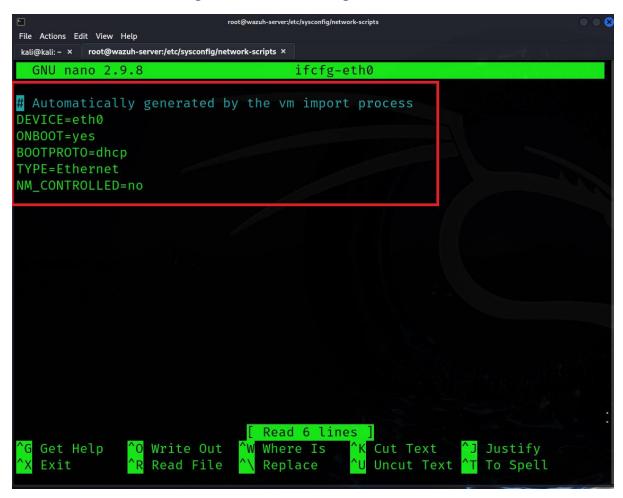
```
root@wazuh-server:/etc/sysconfig/network-scripts
File Actions Edit View Help
kali@kali: ~ × root@wazuh-server:/etc/sysconfig/network-scripts ×
[wazuh-user@wazuh-server ~]$ sudo -i -
[root@wazuh-server ~]# cd /
[root@wazuh-server /]# cd etc
[root@wazuh-server etc]# cd sysconfig
[root@wazuh-server sysconfig]# ls
                init
                                    raid-check
                                                     selinux
authconfig
                irgbalance
                                    rdisc
                                                     sshd
                                    readonly-root
                                                     sysstat
chronyd
                man-db
                                    rpc-rquotad
                                                     sysstat.ioconf
cpupower
                netconsole
                                    rpcbind
                                                     vmimport.network
                network
crond
                                    rsyncd
                                                     wazuh-indexer
               network-scripts
grub
                                   rsyslog
htcacheclean nfs
                                    run-parts
[root@wazuh-server sysconfig] # cd network-scripts
[root@wazuh-server network-scripts]#
```

Step 04: Edit the file "ifcfg-eth0"

Command: nano ifcfg-eth0

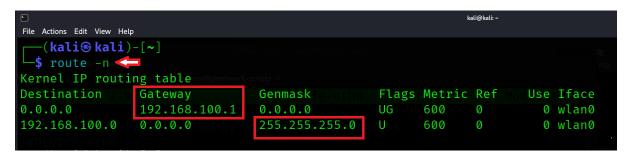
```
File Actions Edit View Help
kali@kali: ~ × root@wazuh-server:/etc/sysconfig/network-scripts ×
[root@wazuh-server network-scripts]# ls
                                   ifup-aliases
ifcfg-eth0
                  ifdown-isdn
                                                  ifup-ppp
                                   ifup-bnep
itctg-lo
                  ifdown-post
ifdown
ifdown-Team
                                                  ifup-tunnel
ifdown-TeamPort
                  ifdown-sit
                                   ifup-ipv6
                                                  ifup-wireless
                                   ifup-isdn
                                                  init.ipv6-global
                  ifup
                                                  network-functions
ifdown-ippp
                                                  network-functions-ipv6
ifdown-ipv6
                  ifup-TeamPort ifup-post
                                                  vmimport.ifcfg-eth0
[root@wazuh-server network-scripts]# nano ifcfg-eth0
```

# Here is the default configuration of file "ifcfg-eth0"



Step 05: Check routing information

Command: route -n

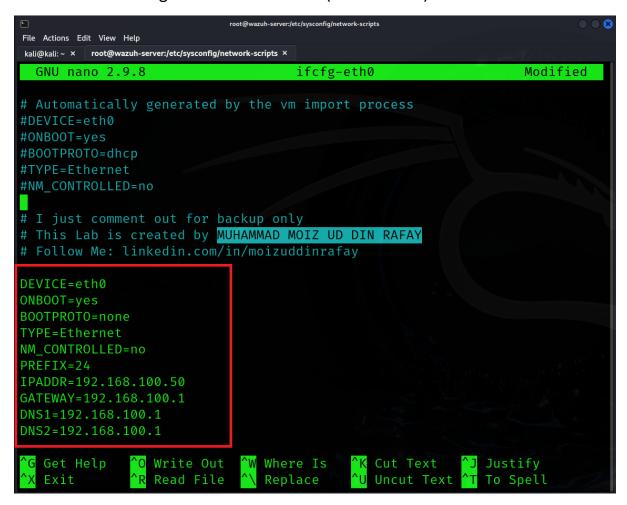


Gateway= 192.168.100.1

Subnet Range= 255.255.255.0

DNS= 192.168.100.1

Step 06: Now add new configurations in file "ifcfg-eth0" Note: before editing make a back of files (recommend)



# **Configuration:**

DEVICE=eth0

ONBOOT=yes

BOOTPROTO=none

TYPE=Ethernet

NM\_CONTROLLED=no

PREFIX=24

IPADDR=192.168.100.50 "type the IP address you want to add"

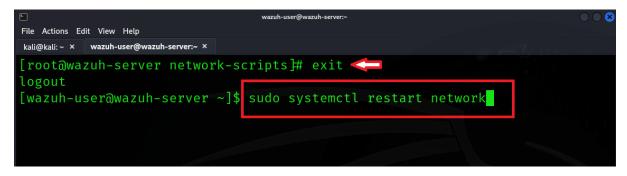
GATEWAY=192.168.100.1

DNS1=192.168.100.1

DNS2=192.1688.100.1

Step 07: Now exit form root login and restart network.

Command: sudo systemctl restart network

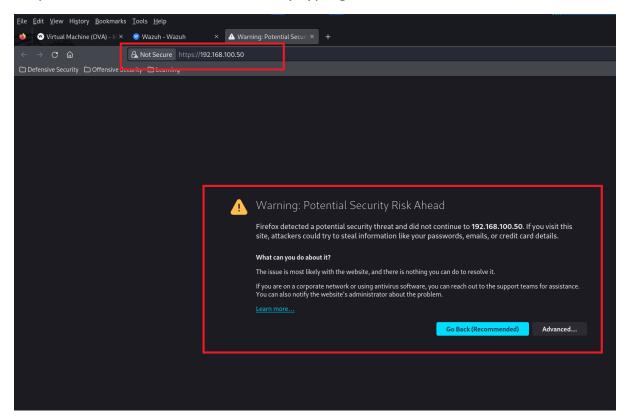


#### Network is restarting.

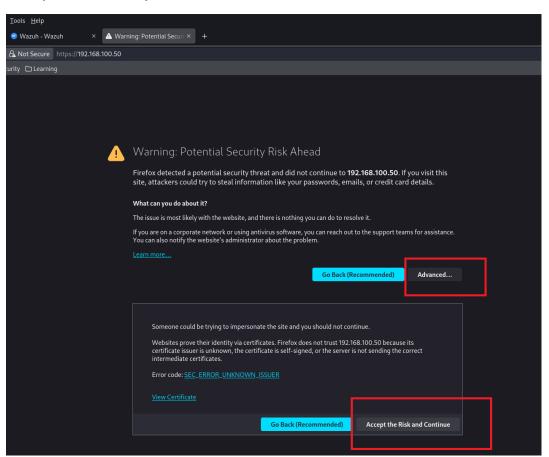
```
[wazuh-user@wazuh-server ~1$ [ 1378.499032] IPv6: ADDRCONF(NETDEV_UP): eth0: lin k is not ready [ 1380.524428] e1000: eth0 NIC Link is Up 1000 Mbps Full Duplex, Flow Control: R X [ 1380.530628] IPv6: ADDRCONF(NETDEV_CHANGE): eth0: link becomes ready [wazuh-user@wazuh-server ~1$
```

#### Here is New Static IP Address.

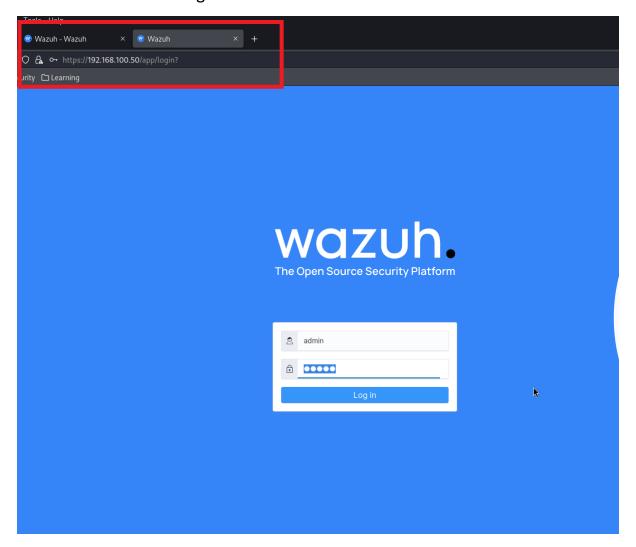
Step 08: Now access with browser by typing IP Address in URL bar.



## Accept the security risk.



# Here is Wazuh is running on Static IP Address



#### **SUMMARY**

In summary, assigning a static IP address to your Wazuh server is essential for maintaining network stability, simplifying management tasks, ensuring seamless integration with other services, enhancing security measures, and facilitating effective log analysis and monitoring.