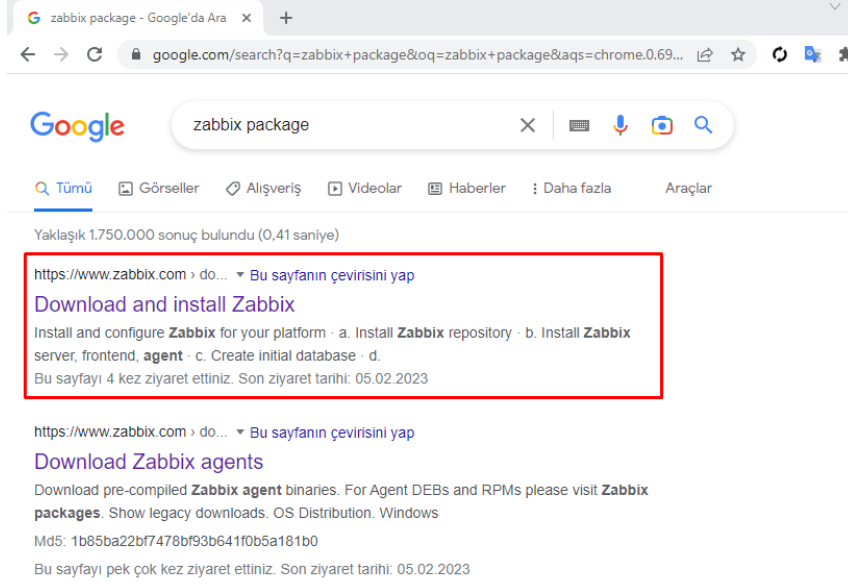


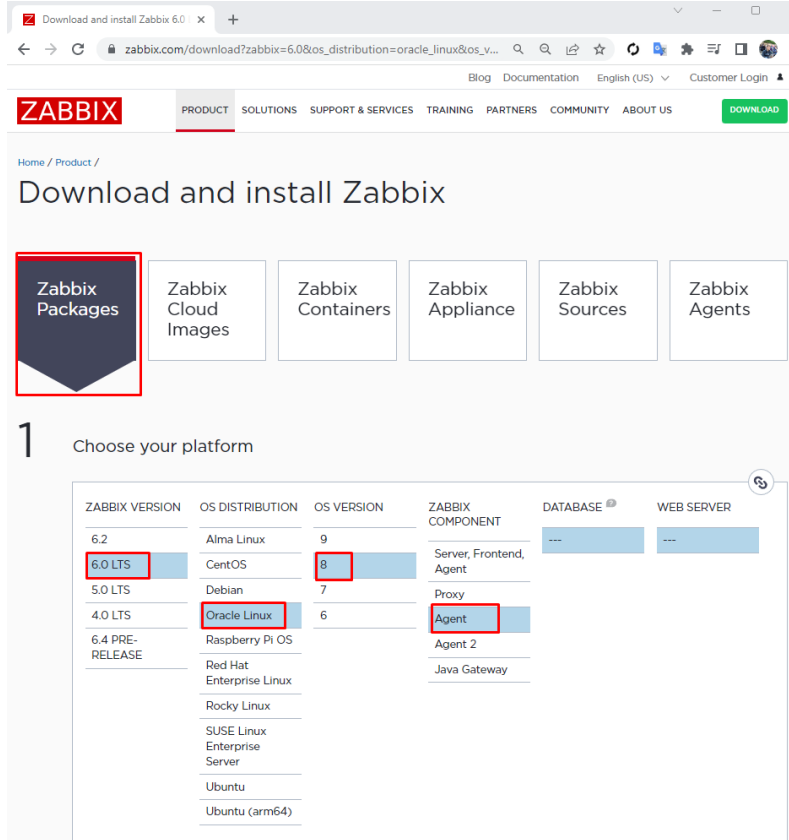
Zabbix 6.0 Agent Installion & Add Linux Host with Agent & Monitoring

Zabbix 6.0 Kurulumu & Agent İle Linux Host Ekleme & İzleme

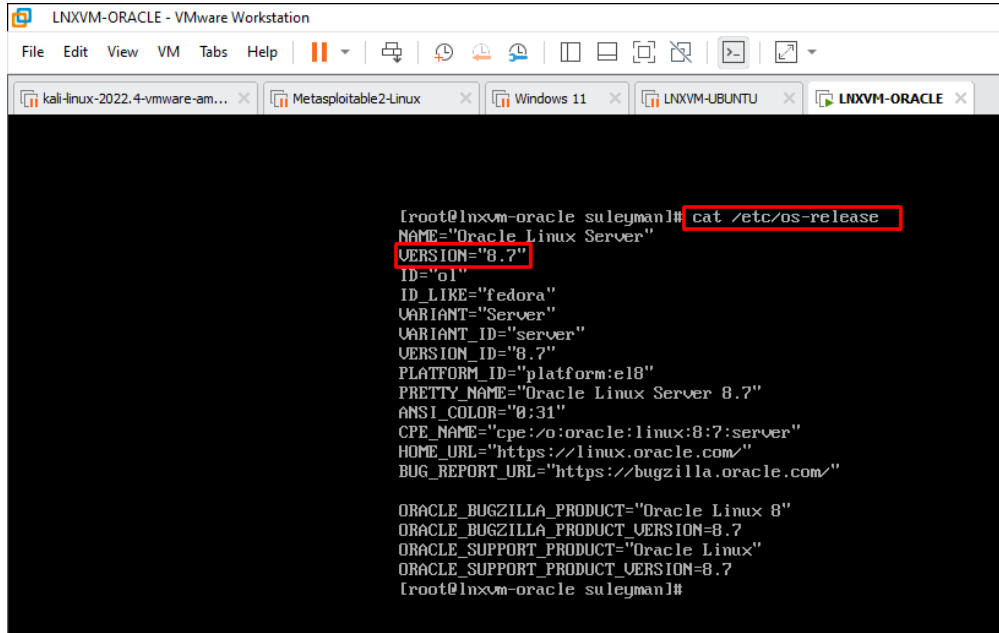
1- Google'a Zabbix Package yazarak, Zabbix Package sayfasına gidiyoruz.



2- Burada Linux işletim sistemimize uygun versiyonu seçerek ilerliyoruz. (Benim işletim sistemim Linux Oracle 8.4 versiyon)



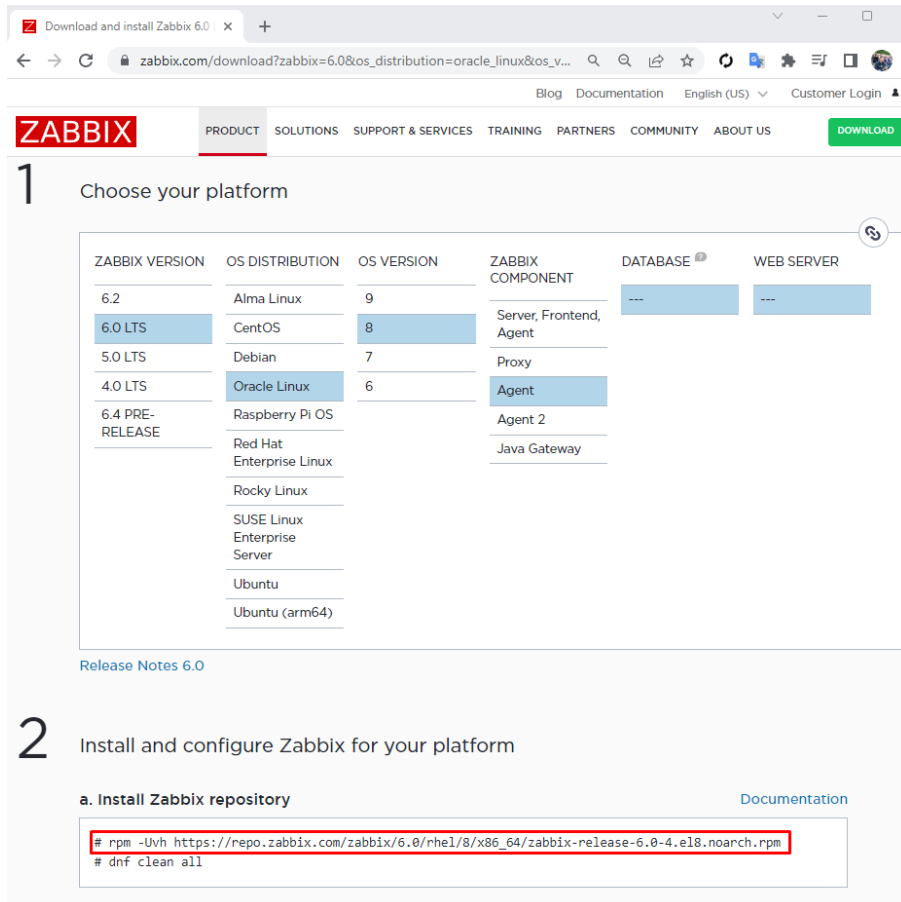
- 3- Zabbix Agent kurulacak Linux işletim sisteminin Versiyon bilgilerini;
`cat /etc/os-release`
komutu ile öğrenilebilir.



```
root@lnxvm-oracle suleyman1# cat /etc/os-release
NAME="Oracle Linux Server"
VERSION="8.7"
ID="ol"
ID_LIKE="fedora"
VARIANT="Server"
VARIANT_ID="server"
VERSION_ID="8.7"
PLATFORM_ID="platform:el8"
PRETTY_NAME="Oracle Linux Server 8.7"
ANSI_COLOR="0;31"
CPE_NAME="cpe:/o:oracle:linux:8:7:server"
HOME_URL="https://linux.oracle.com/"
BUG_REPORT_URL="https://bugzilla.oracle.com/"

ORACLE_BUGZILLA_PRODUCT="Oracle Linux 8"
ORACLE_BUGZILLA_PRODUCT_VERSION=8.7
ORACLE_SUPPORT_PRODUCT="Oracle Linux"
ORACLE_SUPPORT_PRODUCT_VERSION=8.7
root@lnxvm-oracle suleyman1#
```

- 4- Uygun versiyon seçildikten sonra, Zabbix Web sitesinin hemen aşağısındaki scriptler, Linux işletim sistemimizde çalıştırılır.



ZABBIX PRODUCT SOLUTIONS SUPPORT & SERVICES TRAINING PARTNERS COMMUNITY ABOUT US DOWNLOAD

1 Choose your platform

ZABBIX VERSION	OS DISTRIBUTION	OS VERSION	ZABBIX COMPONENT	DATABASE	WEB SERVER
6.2	Alma Linux	9		---	---
6.0 LTS	CentOS	8	Server, Frontend, Agent		
5.0 LTS	Debian	7	Proxy		
4.0 LTS	Oracle Linux	6	Agent		
6.4 PRE-RELEASE	Raspberry Pi OS		Agent 2		
	Red Hat Enterprise Linux		Java Gateway		
	Rocky Linux				
	SUSE Linux Enterprise Server				
	Ubuntu				
	Ubuntu (arm64)				

[Release Notes 6.0](#)

2 Install and configure Zabbix for your platform

a. Install Zabbix repository [Documentation](#)

```
# rpm -Uvh https://repo.zabbix.com/zabbix/6.0/rhel/8/x86_64/zabbix-release-6.0-4.el8.noarch.rpm
# dnf clean all
```

5- Agent Kurulum Scriptlerini çalıştırıyorum.

```
[root@lnxm-oracle suleyman]# rpm -Uvh https://repo.zabbix.com/zabbix/6.0/rhel/8/x86_64/zabbix-release-6.0-4.el8.noarch.rpm
Retrieving https://repo.zabbix.com/zabbix/6.0/rhel/8/x86_64/zabbix-release-6.0-4.el8.noarch.rpm
warning: /var/tmp/rpm-tmp.ZCqHUQ: Header V4 RSA/SHA512 Signature, key ID a14fe591: NOKEY
Verifying... [100%]
Preparing... [100%]
Updating / installing...
 1:zabbix-release-6.0-4.el8 [100%]
[root@lnxm-oracle suleyman]# rpm -Uvh https://repo.zabbix.com/zabbix/6.0/rhel/8/x86_64/zabbix-release-6.0-4.el8.noarch.rpm
Retrieving https://repo.zabbix.com/zabbix/6.0/rhel/8/x86_64/zabbix-release-6.0-4.el8.noarch.rpm
warning: /var/tmp/rpm-tmp.ZCqHUQ: Header V4 RSA/SHA512 Signature, key ID a14fe591: NOKEY
Verifying... [100%]
Preparing... [100%]
Updating / installing...
 1:zabbix-release-6.0-4.el8 [100%]
[root@lnxm-oracle suleyman]# dnf clean all
24 files removed
[root@lnxm-oracle suleyman]#
```

6- Zabbix Agent'ımı yüklüyorum.

2

Install and configure Zabbix for your platform

[Documentation](#)

a. Install Zabbix repository

```
# rpm -Uvh https://repo.zabbix.com/zabbix/6.0/rhel/8/x86_64/zabbix-release-6.0-4.el8.noarch.rpm
# dnf clean all
```

b. Install Zabbix agent

```
# dnf install zabbix-agent
```

c. Start Zabbix agent process

Start Zabbix agent process and make it start at system boot.

```
# systemctl restart zabbix-agent
# systemctl enable zabbix-agent
```

7- Zabbix Agent Yükleme esnasında gelen sorulara Y (Yes) diyerek ilerliyorum ve Agent kurulumunu başarıyla tamalıyorum.

```
[root@lnxm-oracle suleyman]# dnf install zabbix-agent
Oracle Linux 8 BaseOS Latest (x86_64)
Oracle Linux 8 Application Stream (x86_64)
Latest Unbreakable Enterprise Kernel Release 6 for Oracle Linux 8 (x86_64)
Zabbix Official Repository - x86_64
Zabbix Official Repository (non-supported) - x86_64
Zabbix Official Repository (Agent2 Plugins) - x86_64
Dependencies resolved.
=====
Package                                Architecture          Version
=====
Installing:
zabbix-agent                           x86_64                 6.0.13-release1.el8
Transaction Summary
=====
Install 1 Package

Total download size: 548 k
Installed size: 2.4 M
Is this ok [y/N]: Y_
```

```

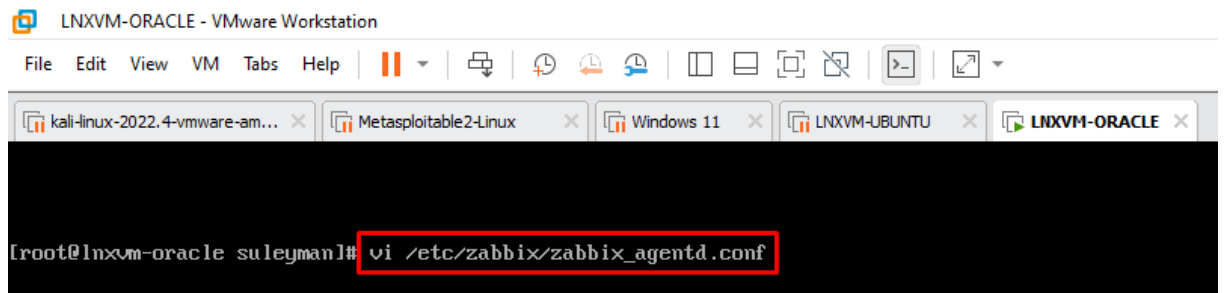
Is this ok [y/N]: Y
Key imported successfully
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing      : 
  Running scriptlet: zabbix-agent-6.0.13-release1.el8.x86_64
  Installing      : zabbix-agent-6.0.13-release1.el8.x86_64
  Running scriptlet: zabbix-agent-6.0.13-release1.el8.x86_64
  Verifying       : zabbix-agent-6.0.13-release1.el8.x86_64

Installed:
  zabbix-agent-6.0.13-release1.el8.x86_64

Complete!
[root@lnxvm-oracle suleyman]#

```

- 8- vi editörüyle Zabbix Agent Konfigrasyon dosyamı açıyorum;
vi /etc/zabbix/zabbix_agentd.conf



- 9- Server Adres yerine Zabbix sunucumun IP adresini yazıyorum.

```

### Option: Server
# List of comma delimited IP addresses, optionally in CIDR notation, or DNS names of Zabbix servers and
# Incoming connections will be accepted only from the hosts listed here.
# If IPv6 support is enabled then '127.0.0.1', '::127.0.0.1', '::ffff:127.0.0.1' are treated equally
# and '::/0' will allow any IPv4 or IPv6 address.
# '0.0.0.0/0' can be used to allow any IPv4 address.
# Example: Server=127.0.0.1,192.168.1.0/24,::1,2001:db8::/32,zabbix.example.com
#
# Mandatory: yes, if StartAgents is not explicitly set to 0
# Default:
# Server=
Server=192.168.1.200_
### Option: ListenPort
# Agent will listen on this port for connections from the server.
#
# Mandatory: no
# Range: 1024-32767
# Default:
# ListenPort=10050
### Option: ListenIP
# List of comma delimited IP addresses that the agent should listen on.
# First IP address is sent to Zabbix server if connecting to it to retrieve list of active checks.
# INSERT

```

10- ServerActive yerinede Zabbix Sunucunun IP adresini yazıyorum.

```
ServerActive=192.168.1.200

### Option: Hostname
#   List of comma delimited unique, case sensitive hostnames.
#   Required for active checks and must match hostnames as configured on the server.
#   Value is acquired from HostnameItem if undefined.
#
# Mandatory: no
# Default:
# Hostname=

Hostname=Zabbix server

### Option: HostnameItem
-- INSERT --
```

11- Hostname alanına diyez(#) işareti ile yorum satırı haline getiriyorum (Host ismini manuel ekleyeceğiz) ve konfigrasyon dosyasını kaydedip çıkış yapıyorum.

```
### Option: Hostname
#   List of comma delimited unique, case sensitive hostnames.
#   Required for active checks and must match hostnames as configured on the server.
#   Value is acquired from HostnameItem if undefined.
#
# Mandatory: no
# Default:
# Hostname=

#Hostname=Zabbix server

### Option: HostnameItem
#   Item used for generating Hostname if it is undefined. Ignored if Hostname is defined.
#   Does not support UserParameters or aliases.
#
# Mandatory: no
# Default:
# HostnameItem=system.hostname

### Option: HostMetadata
#   Optional parameter that defines host metadata.
#   Host metadata is used at host auto-registration process.
#   An agent will issue an error and not start if the value is over limit of 255 characters.
#   If not defined, value will be acquired from HostMetadataItem.
#
-- INSERT --
```

12- Zabbix Agent'ı restart(yeniden başlat) ediyoruz.

c. Start Zabbix agent process

Start Zabbix agent process and make it start at system boot.

```
# systemctl restart zabbix-agent
# systemctl enable zabbix-agent
```

```
[root@lnxvm-oracle suleyman]# systemctl restart zabbix-agent
[root@lnxvm-oracle suleyman]# _
```

13- Zabbix Agent'ı enable(Açık) duruma getiriyoruz.

c. Start Zabbix agent process

Start Zabbix agent process and make it start at system boot.

```
# systemctl restart zabbix-agent
# systemctl enable zabbix-agent
```

```
[root@lnxvm-oracle suleyman]# systemctl enable zabbix-agent
Created symlink /etc/systemd/system/multi-user.target.wants/zabbix-agent.service → /usr/lib/systemd/system/zabbix-agent.service
[root@lnxvm-oracle suleyman]# _
```

14- systemctl status Zabbix-agent komutu ile Zabbix Agent'ın aktif olduğundan emin oluyoruz.

```
[root@lnxvm-oracle suleyman]# systemctl status zabbix-agent
• zabbix-agent.service - Zabbix Agent
   Loaded: loaded (/usr/lib/systemd/system/zabbix-agent.service; enabled; vendor preset: disabled)
   Active: active (running) since Sun 2023-02-05 17:45:20 +03; 2min 24s ago
   Main PID: 10717 (zabbix_agentd)
   Tasks: 6 (limit: 24856)
   Memory: 3.6M
   CGroup: /system.slice/zabbix-agent.service
           └─10717 /usr/sbin/zabbix_agentd -c /etc/zabbix/zabbix_agentd.conf
             └─10718 /usr/sbin/zabbix_agentd: collector [idle 1 sec]
               └─10719 /usr/sbin/zabbix_agentd: listener #1 [waiting for connection]
                 └─10720 /usr/sbin/zabbix_agentd: listener #2 [waiting for connection]
                   └─10721 /usr/sbin/zabbix_agentd: listener #3 [waiting for connection]
                     └─10722 /usr/sbin/zabbix_agentd: active checks #1 [idle 1 sec]

Feb 05 17:45:20 lnxvm-oracle systemd[1]: Starting Zabbix Agent...
Feb 05 17:45:20 lnxvm-oracle systemd[1]: Started Zabbix Agent.
[root@lnxvm-oracle suleyman]# _
```

15- Zabbix Agent'ın haberleşmeyi sağlaması için 10050 portunun açık olması gerekmektedir. O yüzden 10050 portunu açıyoruz.

firewall-cmd --permanent --zone=public --add-port=10050/tcp

- (debian tabanlı linux makinelerde;
ufw allow 10050/tcp

Komutunu çalıştırmam gerekecekti)

```
[root@lnxvm-oracle suleyman]# firewall-cmd --permanent --zone=public --add-port=10050/tcp
success
[root@lnxvm-oracle suleyman]# _
```

16- Ayarların geçerli olması için firewall'u reload ediyoruz.

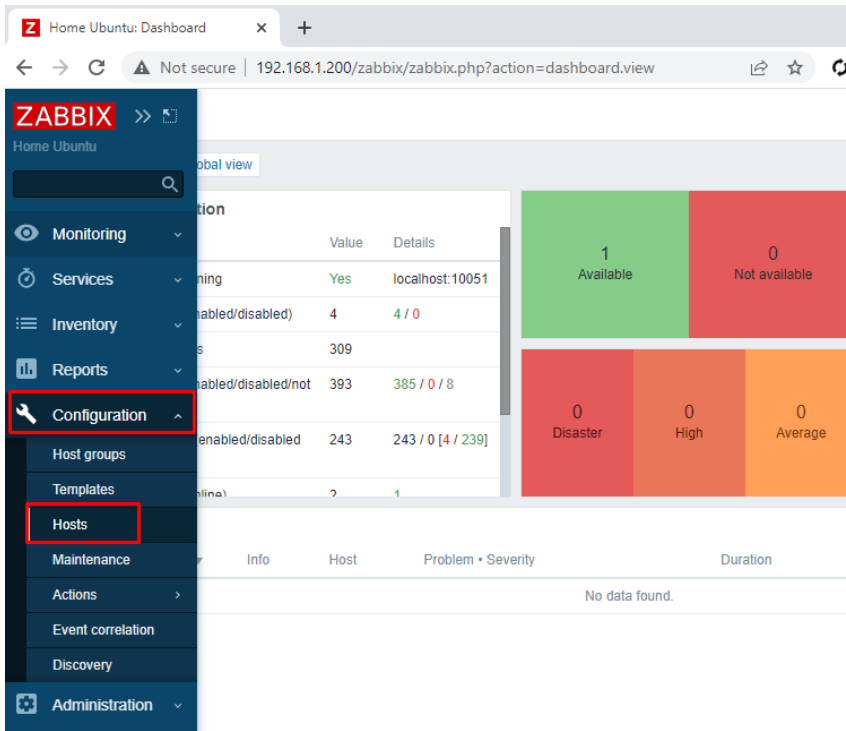
firewall-cmd --reload

```
[root@lnxvm-oracle suleyman]# firewall-cmd --permanent --zone=public --add-port=10050/tcp
success
[root@lnxvm-oracle suleyman]# firewall-cmd --reload
success
[root@lnxvm-oracle suleyman]# _
```

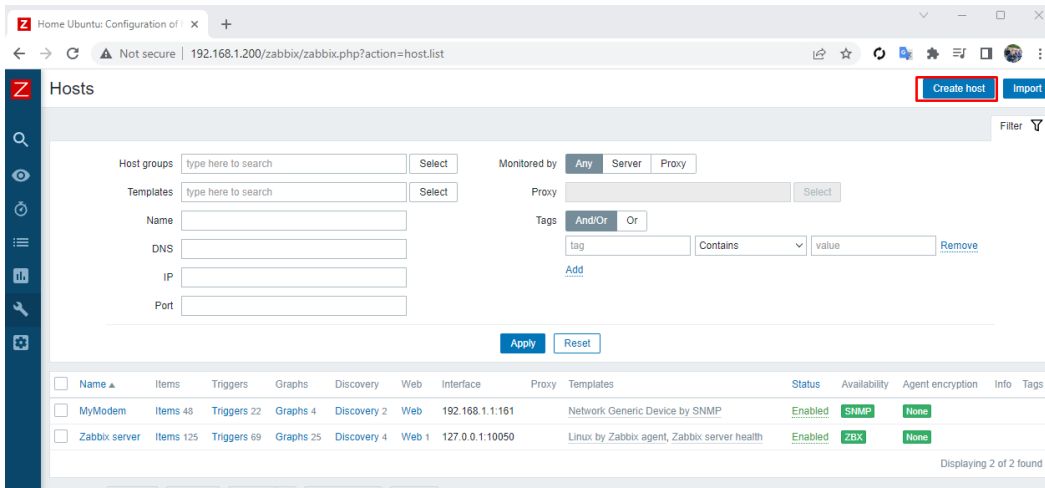
- 17- Linux makinemizde firewall 10050 portunun açık olduğunu görüyoruz.
firewall-cmd --permanent --zone=public --list-ports

```
[root@lnxvm-oracle suleyman]# firewall-cmd --permanent --zone=public --add-port=10050/tcp
success
[root@lnxvm-oracle suleyman]# firewall-cmd --reload
success
[root@lnxvm-oracle suleyman]# firewall-cmd --permanent --zone=public --list-ports
10050/tcp
[root@lnxvm-oracle suleyman]# _
```

- 18- Zabbix Sunucuma giderek Configuration menüsü altında host alanına gidiyorum.



- 19- Create host butonuna tıklayarak yeni host oluşturuyoruz.



20- Host name alanına dilediğiniz ismi yazabilirsiniz. Template kısmında ise Linux by Zabbix agent seçiyoruz.

New host

Host IPMI Tags Macros Inventory Encryption Value mapping

* Host name Linux Oracle Server

Visible name Linux Oracle Server

Templates linux Select

* Groups Linux by Zabbix agent Select

Interfaces Linux by SNMP

Description Linux memory by SNMP
Linux block devices by SNMP
Linux CPU by SNMP
Linux filesystems by SNMP
Linux CPU by Zabbix agent
Linux filesystems by Zabbix agent
Linux memory by Zabbix agent
Linux block devices by Zabbix agent

Monitored by proxy Linux network interfaces by Zabbix agent

Enabled Linux generic by Zabbix agent
Linux by Prom
Linux block devices by Zabbix agent active
Linux CPU by Zabbix agent active

Add

21- Groups kısmında Linux servers grubuna alıyorum.

New host

Host IPMI Tags Macros Inventory Encryption Value mapping

* Host name Linux Oracle Server

Visible name Linux Oracle Server

Templates Linux by Zabbix agent X type here to search Select

* Groups linux servers Linux servers Select

Interfaces linux servers (new) Add

Description

Monitored by proxy (no proxy) v

Enabled ☒

Add Cancel

22- Interface kısmında ise Agent seçiyorum. Ve Linux makinemin IP adresini giriyorum.

New host

Host IPMI Tags Macros Inventory Encryption Value mapping

* Host name Linux Oracle Server

Visible name Linux Oracle Server

Templates Linux by Zabbix agent x Select
type here to search

* Groups Linux servers x Select
type here to search

Interfaces No interfaces are defined.
[Add](#)

Description Agent
SNMP
JMX
IPMI

Monitored by proxy (no proxy) v

Enabled ☒

23- Add (Ekle) Butonuna tıklayarak linux makinemi ekliyorum.

New host

Host IPMI Tags Macros Inventory Encryption Value mapping

* Host name Linux Oracle Server

Visible name Linux Oracle Server

Templates Linux by Zabbix agent x Select
type here to search

* Groups Linux servers x Select
type here to search

Interfaces	Type	IP address	DNS name	Connect to	Port	Default
Agent	192.168.1.175			IP DNS	10050	<input checked="" type="radio"/> Remove

[Add](#)

Description

Monitored by proxy (no proxy) v

Enabled ☒

[Add](#) [Cancel](#)

24- Linux makinem eklendi, birkaç dakika bekleyip sayfayı yenileyerek Agent aktif olduğunu görüyorum.

The screenshot shows the Zabbix 'Hosts' page. The 'Linux Oracle Server' host is highlighted with a red box. It has 42 items, 14 triggers, 8 graphs, 3 discovery rules, and 1 web interface. The status is 'Enabled', the agent is 'ZBX', and encryption is 'None'.

Name	Items	Triggers	Graphs	Discovery	Web	Interface	Proxy	Templates	Status	Availability	Agent encryption
Linux Oracle Server	42	14	8	3	1	192.168.1.175:10050	Linux by Zabbix agent	Linux by Zabbix agent	Enabled	ZBX	None
MyModem	48	22	4	2	1	192.168.1.1:161	Network Generic Device by SNMP	Network Generic Device by SNMP	Enabled	SNMP	None
Zabbix server	125	69	25	4	1	127.0.0.1:10050	Linux by Zabbix agent, Zabbix server health	Linux by Zabbix agent, Zabbix server health	Enabled	ZBX	None

25- Monitoring menüsü altında Latest data alanına gidederek metriklerimi gözlemliyorum.

The screenshot shows the Zabbix 'Latest data' page. The 'Linux Oracle Server' host is highlighted with a red box. It shows various metrics such as 'Free inodes in %', 'Space utilization', 'Total space', and 'Used space'. The status is 'Enabled', the agent is 'ZBX', and encryption is 'None'.

Host	Name	Last check	Last value	Change	Tags	Info
Linux Oracle Server	/: Free inodes in %	1s	99.8038 %		component: storage filesystem: /	Graph
Linux Oracle Server	/: Space utilization	59s	6.0043 %		component: storage filesystem: /	Graph
Linux Oracle Server	/: Total space	57s	45.02 GB		component: storage filesystem: /	Graph
Linux Oracle Server	/: Used space	55s	2.7 GB		component: storage filesystem: /	Graph
Linux Oracle Server	/boot: Free inodes in %	1m	99.9371 %		component: storage filesystem: /boot	Graph

26- CPU Utilization (CPU kullanımı) metrik değerlerini monitör edebiliyoruz.

