3. **Install Latest Zabbix Agent on VM or host machine or server itself to fetch logs, steps include:**

- **Run as active check agent**
- **Add a logging item to the same template for fetching /var/log/syslog(Ubuntu) or /var/log/messages (CentOS)**
- **Fetch those logs from the host (Make sure required permissions are set for zabbix-agent to pull logs)**
- **Provide agent configuration file & screenshots for target machine graph & logs**

Installing zabbix agent in the same host(Zabbix-server)

sudo apt install zabbix-agent

```
bibek@ubuntu-zabbix:~$ sudo apt install zabbix-agent
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
  zabbix-agent
0 upgraded, 1 newly installed, 0 to remove and 23 not upgraded.
Need to get 210 kB of archives.
After this operation, 843 kB of additional disk space will be used.
Get:1 http://repo.zabbix.com/zabbix/5.0/ubuntu focal/main amd64 zabbix-agent
Fetched 210 kB in 2s (102 kB/s)
Selecting previously unselected package zabbix-agent.
(Reading database ... 178657 files and directories currently installed.)
Preparing to unpack .../zabbix-agent_1%3a5.0.18-1+focal_amd64.deb ...
Unpacking zabbix-agent (1:5.0.18-1+focal) ...
Setting up zabbix-agent (1:5.0.18-1+focal) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for systemd (245.4-4ubuntu3.13) ...
bibek@ubuntu-zabbix:~$ cd /etc/zabbix/
bibek@ubuntu-zabbix:/etc/zabbix$ ls
apache.conf  web  zabbix_agentd.conf  zabbix_agentd.d  zabbix_server.conf
```

Configuring Zabbix agent configuration

sudo vi /etc/zabbix/zabbix_agentd.conf

ServerActive=192.168.1.147
Hostname=ubuntu-zabbix

Restarting zabbix-agent service

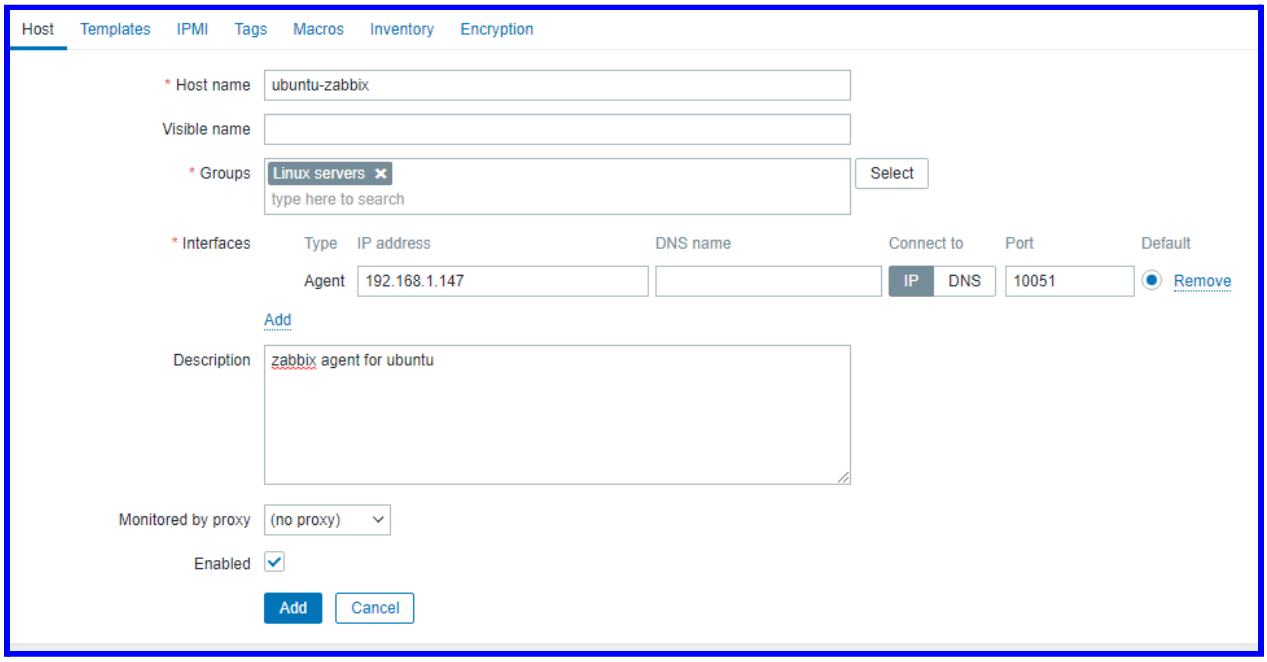
sudo systemctl restart zabbix-agent.service

Configuration >> Host >> Create Host

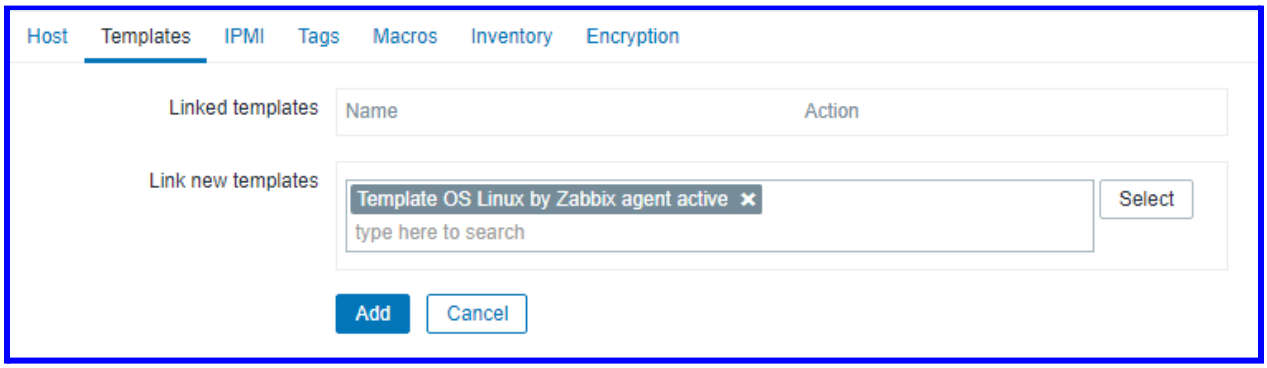
*Give the **host-name** same as we have given in the configuration file*

*Select Groups - **Linux Servers***

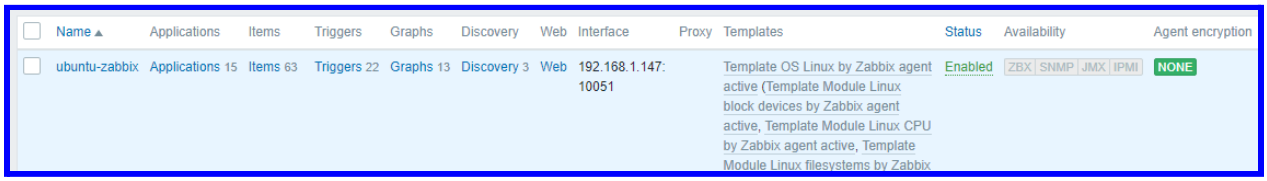
Interfaces - Agent <IP> - *for Active Check* ***Port - 10051***



Selecting Template **- Template OS Linux by Zabbix agent active**



After creating host



Giving access to Zabbix user to read **log of syslog**

Syslog is accessed (read) by ***adm*** *group*

Adding ***Zabbix user*** *to* ***adm group***

sudo usermod -aG adm zabbix

```
bibek@ubuntu-zabbix:/var/log$ cat /etc/passwd | grep zabbix
zabbix:x:132:140::/var/lib/zabbix/:/usr/sbin/nologin
bibek@ubuntu-zabbix:/var/log$ sudo usermod -aG adm zabbix
[sudo] password for bibek:
bibek@ubuntu-zabbix:/var/log$ |||
```

Restarting the zabbix-agent service

sudo systemctl restart zabbix-agent.service

Checking whether zabbix can access syslog or not

sudo -H -u zabbix bash -c 'tail -f /var/log/syslog'

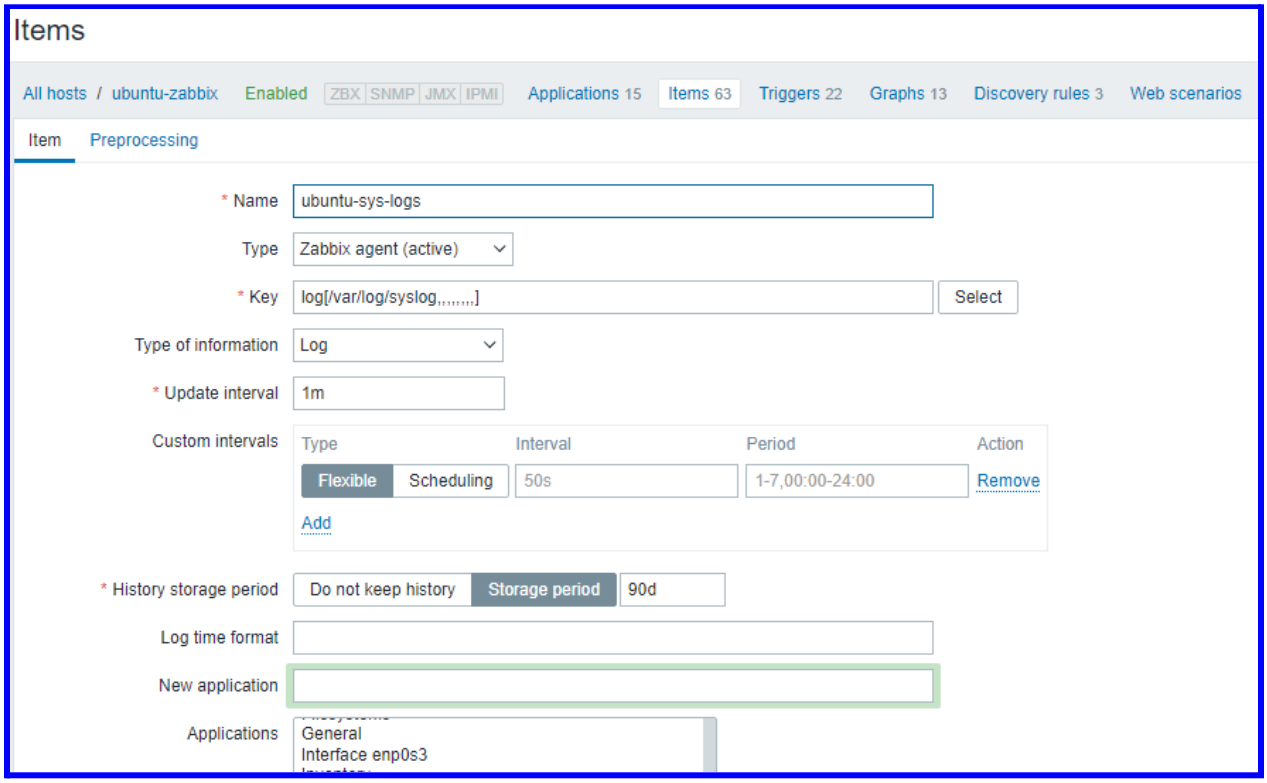
```
bibek@ubuntu-zabbix:/var/log$ sudo systemctl restart zabbix-agent.service
bibek@ubuntu-zabbix:/var/log$ sudo -H -u zabbix bash -c 'tail -f /var/log/syslog'
Dec  2 22:13:38 ubuntu-zabbix whoopsie[766]: [22:13:38] online
Dec  2 22:13:47 ubuntu-zabbix systemd[1]: NetworkManager-dispatcher.service: Succeeded.
Dec  2 22:17:01 ubuntu-zabbix CRON[4190]: (root) CMD (   cd / && run-parts --report /etc/cron.hourly)
Dec  2 22:27:07 ubuntu-zabbix systemd[1]: Stopping Zabbix Agent...
Dec  2 22:27:07 ubuntu-zabbix systemd[1]: zabbix-agent.service: Succeeded.
Dec  2 22:27:07 ubuntu-zabbix systemd[1]: Stopped Zabbix Agent.
Dec  2 22:27:07 ubuntu-zabbix systemd[1]: Starting Zabbix Agent...
```

Here we can see it can fetch syslog through zabbix user

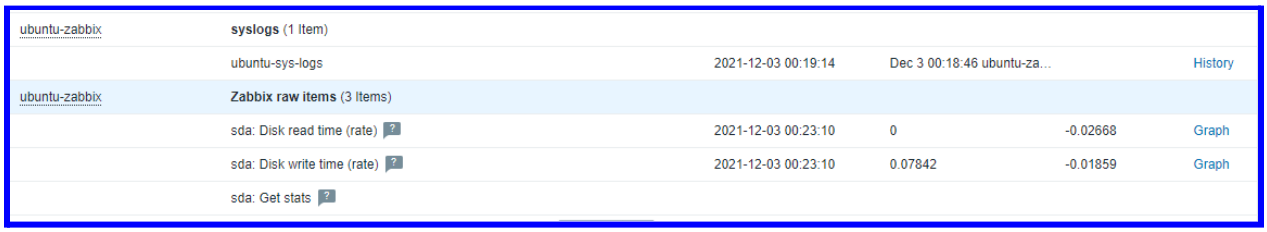
Creating **Item** to get **syslog** from ubuntu-host

Configuration >> Hosts >> Items >> **Create Item**

Name *- ubuntu-sys-log,* ***Type*** *- Zabbix agent (**active**),* ***Key*** *- log[/var/log/syslog,,,,,,,,],* ***New Application*** *- Name*



Monitoring >> Latest Data >> syslogs (ubuntu sys logs) >> History



ubuntu-zabbix	**syslogs** (1 Item)				
	ubuntu-sys-logs	2021-12-03 00:19:14	Dec 3 00:18:46 ubuntu-za...		History
ubuntu-zabbix	**Zabbix raw items** (3 Items)				
	sda: Disk read time (rate)	2021-12-03 00:23:10	0	-0.02668	Graph
	sda: Disk write time (rate)	2021-12-03 00:23:10	0.07842	-0.01859	Graph
	sda: Get stats				

*We can see the **logs** coming from the **ubuntu-zabbix** server through **zabbix-agent.***