# ######How To Install Zabbix Server 4.0 and Zabbix Agent and Configure on CentOS 7######

[**Zabbix**](https://www.zabbix.com/) is an enterprise-class [**monitoring solution**](https://www.itzgeek.com/tag/monitoring-tools) for servers, network devices, and other components of your infrastructure.

[**Zabbix**](https://www.itzgeek.com/tag/zabbix) uses client (Zabbix Agent) installed on the monitored client-server to collect the data. Also, it can monitor standard services such as e-mail, web service without installing a client on the monitored devices.

With Zabbix, you can monitor almost everything that is on your infrastructure. Since Zabbix is enterprise-ready, you can use Zabbix monitoring for environments ranging from small to larger.

Zabbix is free, released under the GPL license, so it is free commercial and non-commercial use.

## ################Features of Zabbix #########################

* Monitor the metrics like CPU, memory, disk space, network and process of servers (Requires Zabbix Agent)
* Monitoring of [**VMware vCeneter**](https://www.itzgeek.com/tag/vmware), VMware hypervisor, and virtual machines.
* Automatically discovers VMware hypervisor and virtual machines using low-level discovery.
* Monitoring of **[MySQL](https://www.itzgeek.com/tag/mysql)**, **[PostgreSQL](https://www.itzgeek.com/tag/postgresql)**, [**Oracle**](https://www.itzgeek.com/tag/oracle) and [**Microsoft SQL Server**](https://www.itzgeek.com/tag/ms-sql).
* Zabbix has built-in [**Java application**](https://www.itzgeek.com/tag/java) server monitoring.
* Monitoring the network device with [**SNMP**](https://www.itzgeek.com/tag/snmp).
* Web services monitoring.
* Hardware monitoring such as temperature, fan speed, and disk state.

######Hosts######

# vi /etc/hosts

192.168.72.76 server.mit.com server

192.168.72.77 client.mit.com client

### ############## Install PHP and PHP Extensions #################

# yum -y install php-cli php-common php-devel php-pear php-gd php-mbstring php-mysql php-xml

**######Configure Zabbix repository############**

##Zabbix is not available in our base OS by default, so install Zabbix repository configuration package.

# rpm -i https://repo.zabbix.com/zabbix/4.0/rhel/7/x86\_64/zabbix-release-4.0-1.el7.noarch.rpm

**######Install Zabbix Server with MySQL#########**

# yum install -y zabbix-server-mysql zabbix-web-mysql zabbix-agent mariadb-server

**#####Timezone#######**

##To begin using the Apache with the Zabbix server. Zabbix configuration file needs to be updated with TimeZone.

vi /etc/httpd/conf.d/zabbix.conf

**##Update the below line with correct timezone. Find more time zones in the official site.**

php\_value date.timezone Asia/kolkata

**#######Create Zabbix database###########**

Start the MariaDB service

**####Login to MariaDB and create the database and user for our Zabbix installation.**

# mysql -u root -p

**####Create a database with the following details.**

Example:

DBName =zabbix

DBUser =kittu

DBPassword =temp

mysql> create database zabbix character set utf8 collate utf8\_bin;

mysql> grant all privileges on zabbix.\* to kittu@localhost identified by 'temp';

mysql> quit;

##Once you are done creating the database for Zabbix installation, then import initial

schema and data to the newly created database.

# cd /usr/share/doc/zabbix-server-mysql\*/

# zcat create.sql.gz | mysql -u zabbixuser -p zabbixdb

**#######Update Database Configuration#########**

**## Edit the zabbix\_server.conf file to set the database details.**

# vi /etc/zabbix/zabbix\_server.conf

**##Make sure you set as follows.**

DBHost=localhost

DBName =zabbix

DBUser =kittu

DBPassword =temp

**#### Disable selinux on Centos####**

# vi /etc/sysconfig/selinux

SELINUX=disabled

**#######Restart all the services.#####**

# systemctl restart zabbix-server

# systemctl restart httpd

**#####Enable the service to start automatically on system reboot.**

# systemctl enable zabbix-server

# systemctl enable httpd

# systemctl enable mariadb

**####Configure the firewall to allow Zabbix agent to reach the Zabbix server.######**

# firewall-cmd --permanent --add-port=10050/tcp

# firewall-cmd --permanent --add-port=10051/tcp

# firewall-cmd --permanent --add-port=80/tcp

# firewall-cmd --reload

# systemctl restart firewalld

OR

**####Disable Firewall##########**

# systemctl stop firewalld

# systemctl disable firewalld

#######Configure Zabbix via Web Installer#######

**##Open up your web browser and point it to the following URL**.

http://192.168.72.74/zabbix/

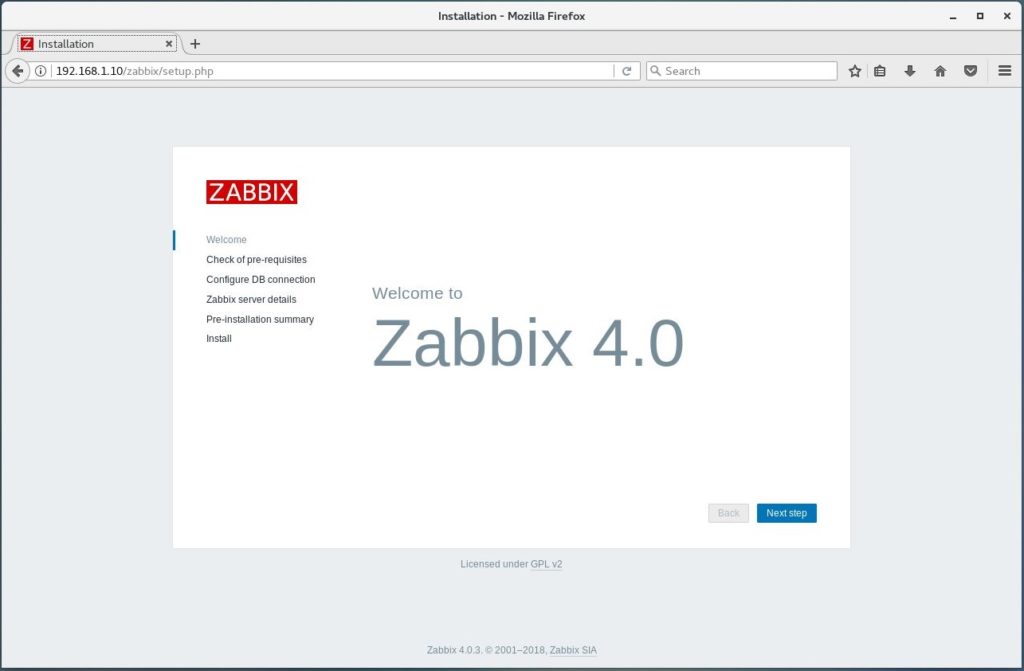
**#### Access Zabbix Server ######**

**Log in to Zabbix Server with the default username and password.**

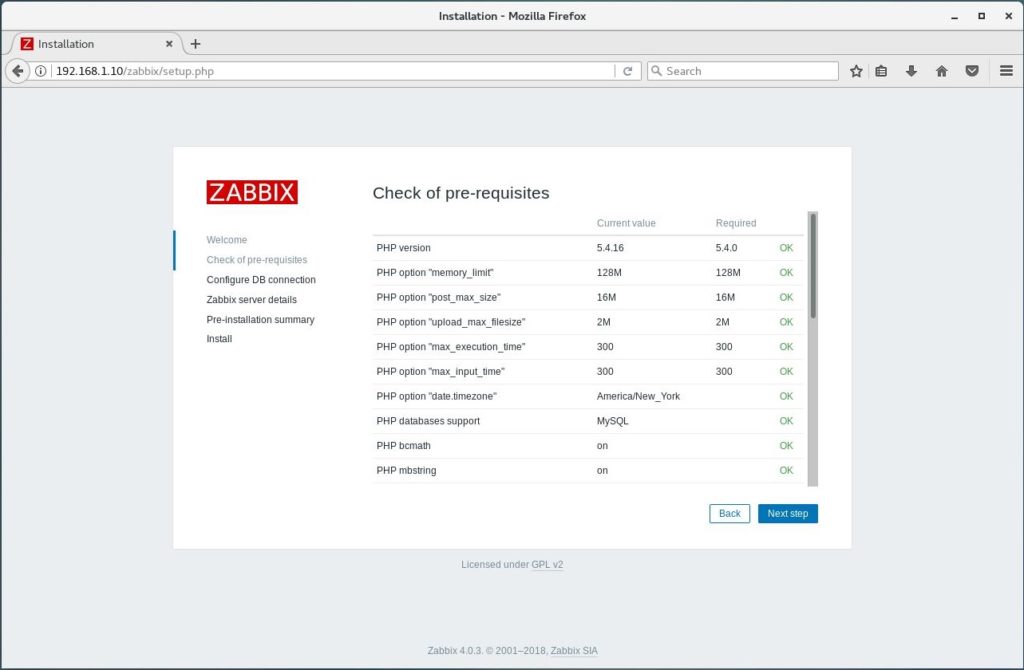
Username: “Admin”

Password: “zabbix”

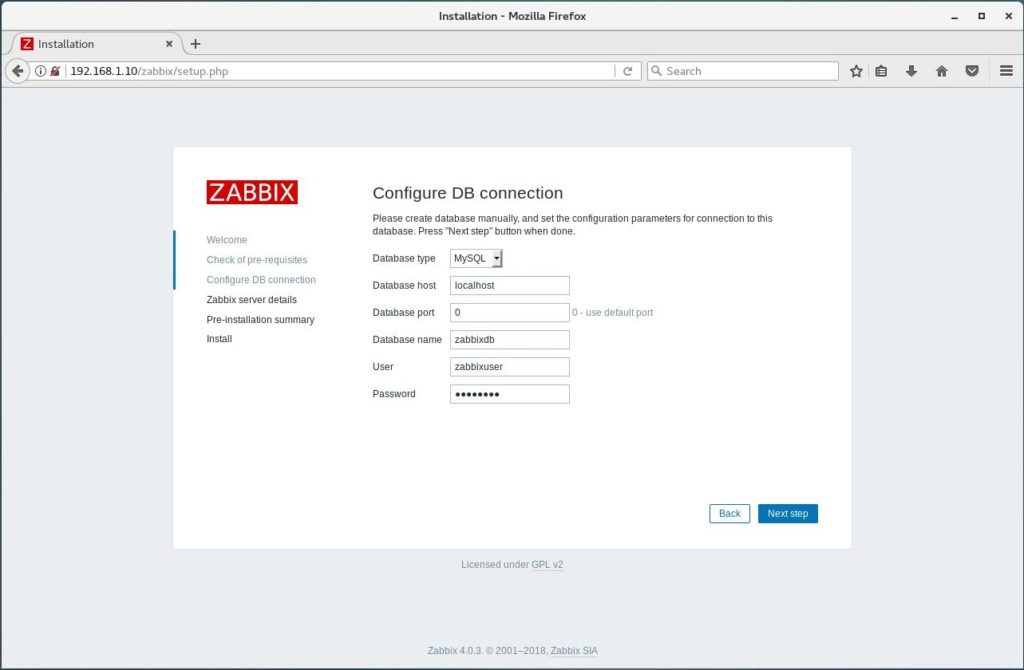
**####Click Next Step on Zabbix welcome page#####**



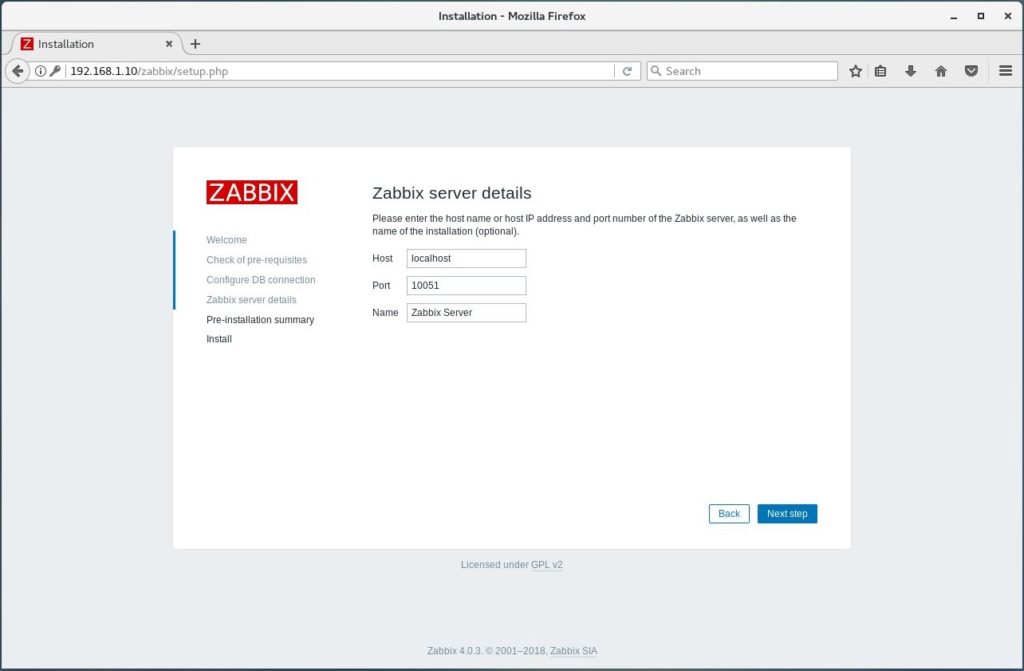
**##### This step verifies all the pre-requisites are met for Zabbix Installation. If there are any issues, this page will tell you what all the extension are missing. Click on Next Step.**



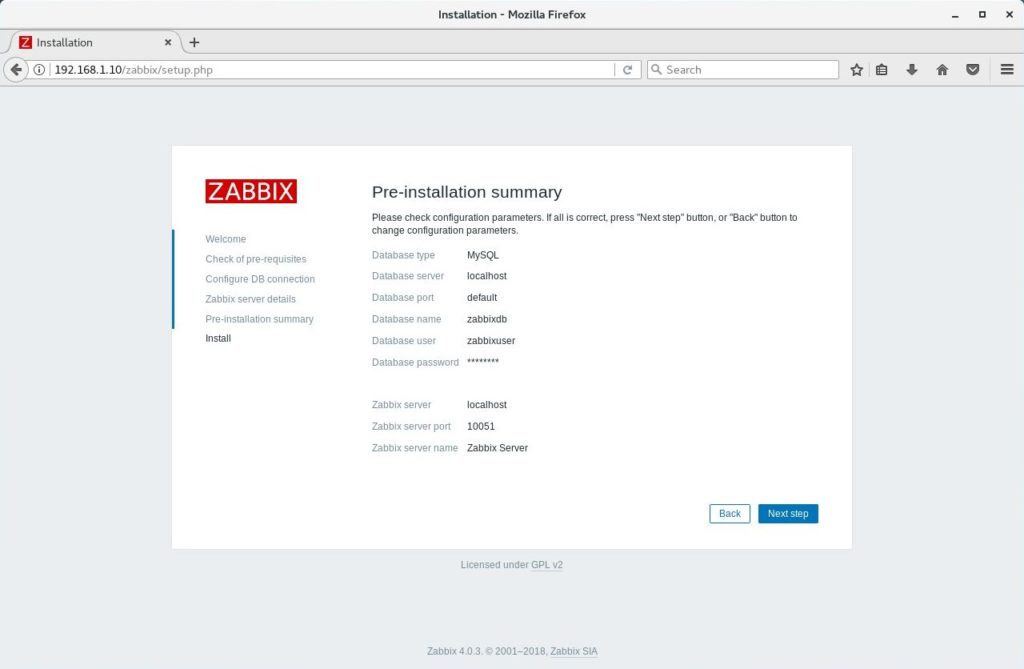
**#####Enter the Zabbix database name, DB user, and password. Click Next Step.**



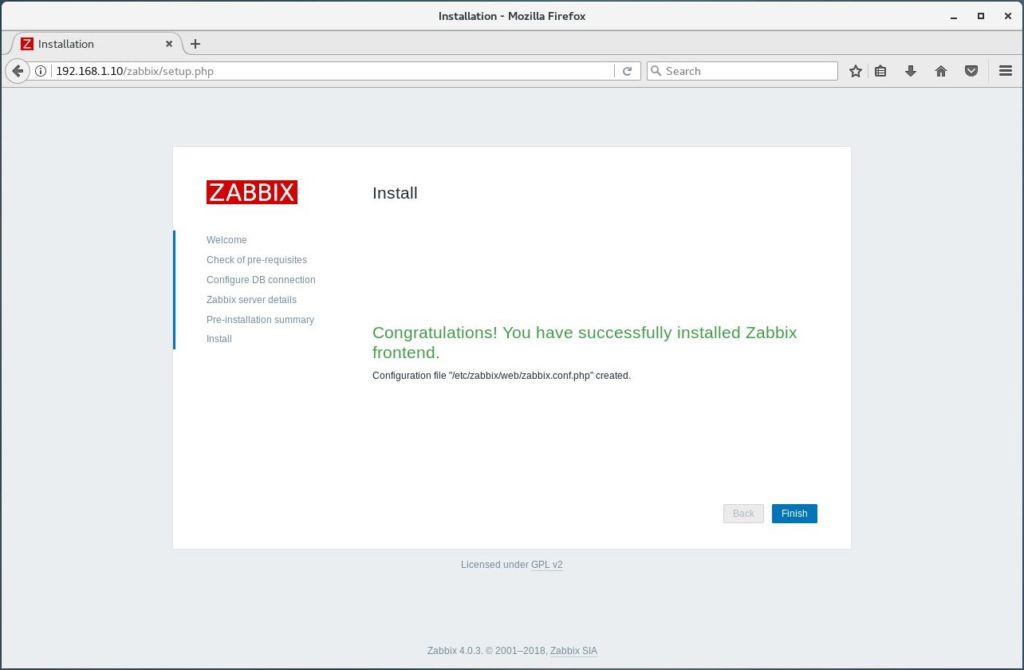
**##### Mention the Zabbix server details, port number, and the name for Zabbix installation and then click** **Next step**.



**##### You will get a pre-installation summary like below. Click** **Next step**.



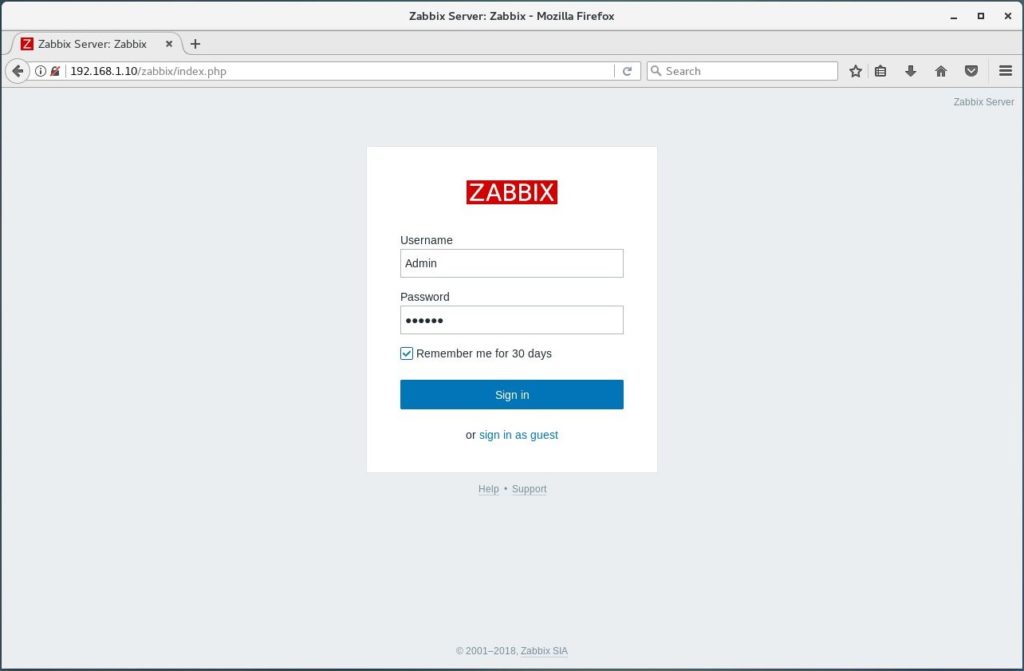
**##### Now, you have completed the installation of Zabbix. Click the** **Finish**.######



**####Access Zabbix Dashboard######**

**Username: Admin**

**Password: zabbix**



# ##### How To Install Zabbix Agent on CentOS 7 ######

# ######Add Zabbix Agent repository########

# ### CentOS 7 / RHEL 7 ###

# # rpm -ivh https://repo.zabbix.com/zabbix/4.0/rhel/7/x86\_64/zabbix-release-4.0-1.el7.noarch.rpm

# ### Ubuntu 18.04 ###

# # wget https://repo.zabbix.com/zabbix/4.0/ubuntu/pool/main/z/zabbix-release/zabbix-release\_4.0-2+bionic\_all.deb

# # dpkg -i zabbix-release\_4.0-2+bionic\_all.deb

# # apt update

# ######Install Zabbix Agent#########

# # yum install -y zabbix-agent

# #####Configure Zabbix Agent########

# # vi /etc/zabbix/zabbix\_agentd.conf

# ##Update the following details on the Zabbix agent file.

# ### Zabbix Server IP Address or Hostname ###

# Server=client.mit.com

# ### Client Hostname ###

# Hostname=centos.mit.com

# 

# ####Control Zabbix Agent#####

# # service zabbix-agent restart

# 

# # systemctl enable zabbix-agent

**######How to Add Remote Linux Host to Zabbix Server for Monitoring#######**

After installing the Zabbix server and Zabbix agent, you are now due for adding a node to the Zabbix server for monitoring.

**#######Add Host To Zabbix Monitoring############**

Login to Zabbix Web console using the admin account. Then, go to Configuration >> Hosts >> Create Host.

**######Enter the details for the following parameters.**

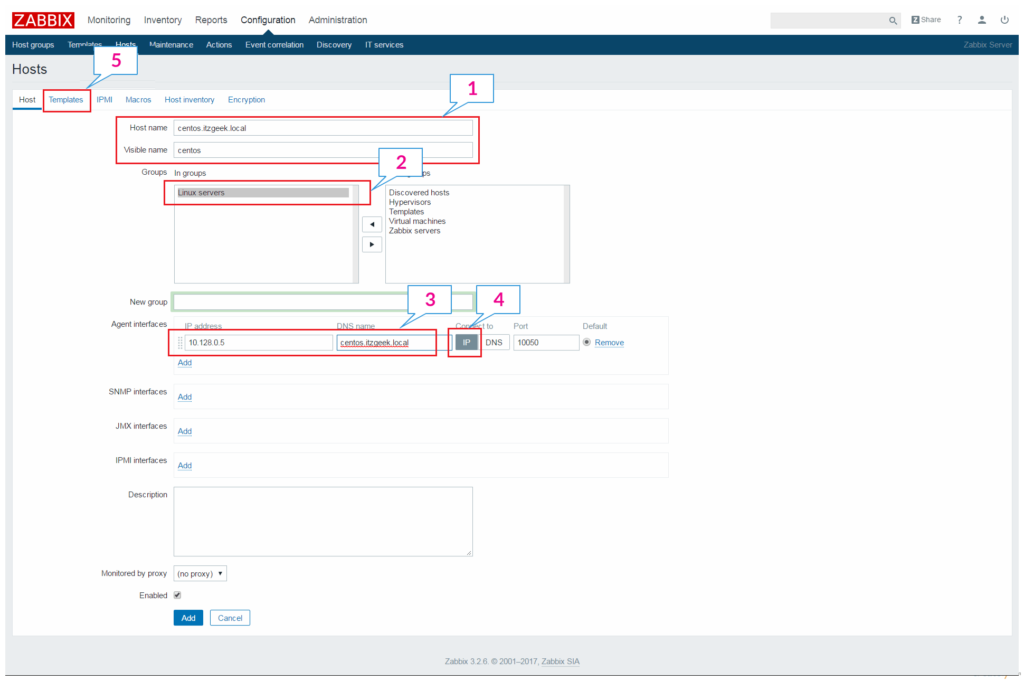
Hostname: Hostname of the remote node

Visible name: Name of the remote node

Group: Select host groups the node belongs to.

Agent Interface: Enter IP Address or DNS name (IP Address is recommended)

Connect to: Choose IP / DNS (The way the communication happen between the server and the node. IP recommended)



**Don’t click on Add.**

**############Attach Templates to Host###############**

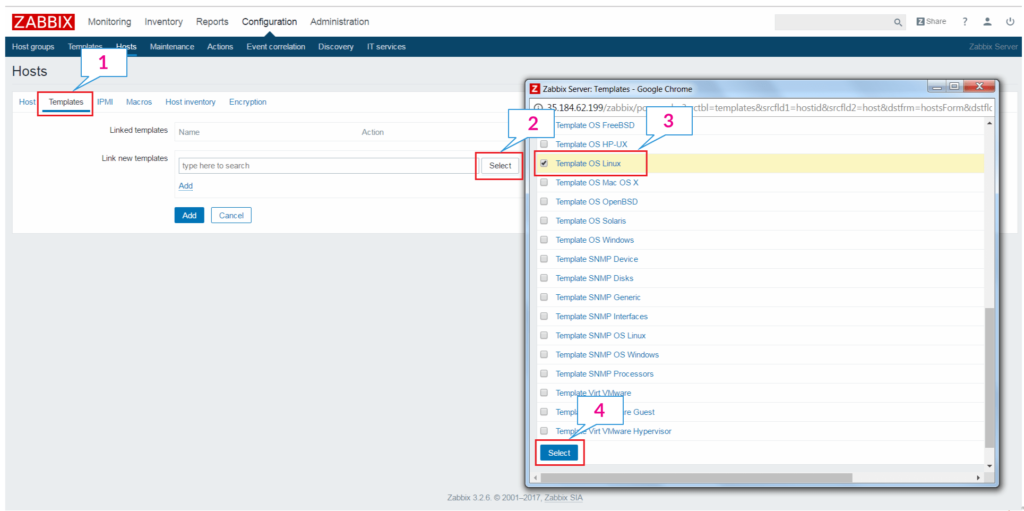
Zabbix has pre-defined templates that can be applied to multiple hosts. A template is a set of entities which

reduces your manual effort in configuring triggers, items, graphs, application, etc. for each host.

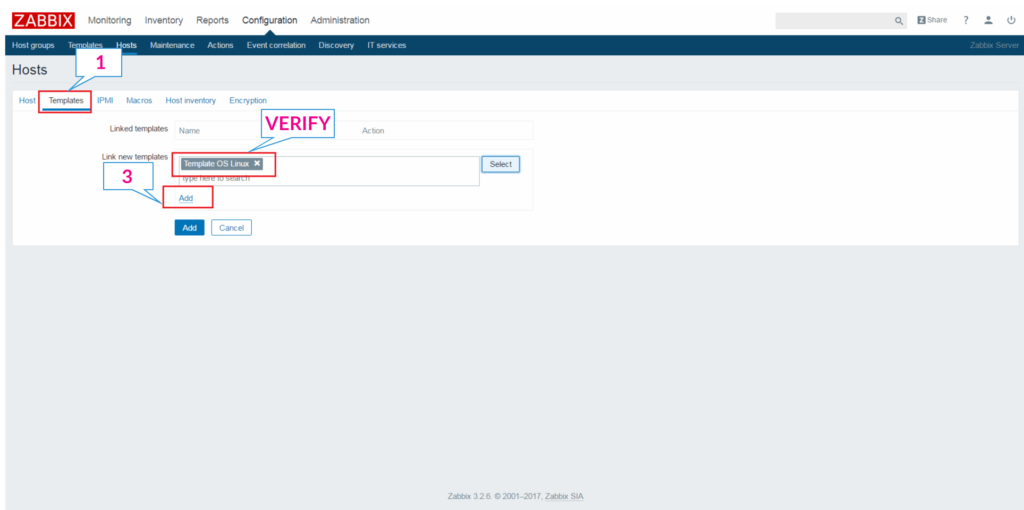
Go to **Templates >> Link new templates**. You either type to search a template or click on the **Select** to choose from

a list of templates. **Tick** mark the template you want to link to the new host.

**Link new templates**: Template OS Linux



Then, click on **Add**.



Finally, click on **Add** to complete the addition of the host.

# Add a Node to Zabbix Server for Monitoring - Add Templates to Host

# ##### Below is the list of hosts under the Zabbix monitoring tool. Go to ****Configuration**** >> ****Hosts**.**

# Add a Client Node to Zabbix Server for Monitoring - List of Hosts

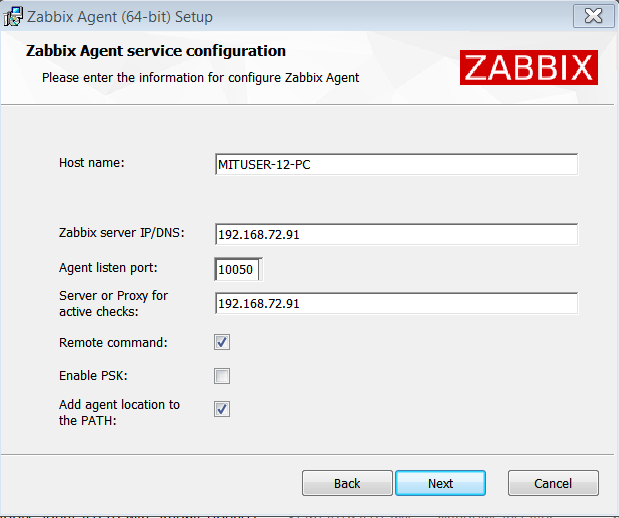
**######Zabbix Agent On Windows##########**

**You have download zabbix agent for windows from:**

<https://www.zabbix.com/download.php>

**(Make sure Package should be 4.2 version)**

**now just install and put the servers IP addres while installation.**

****