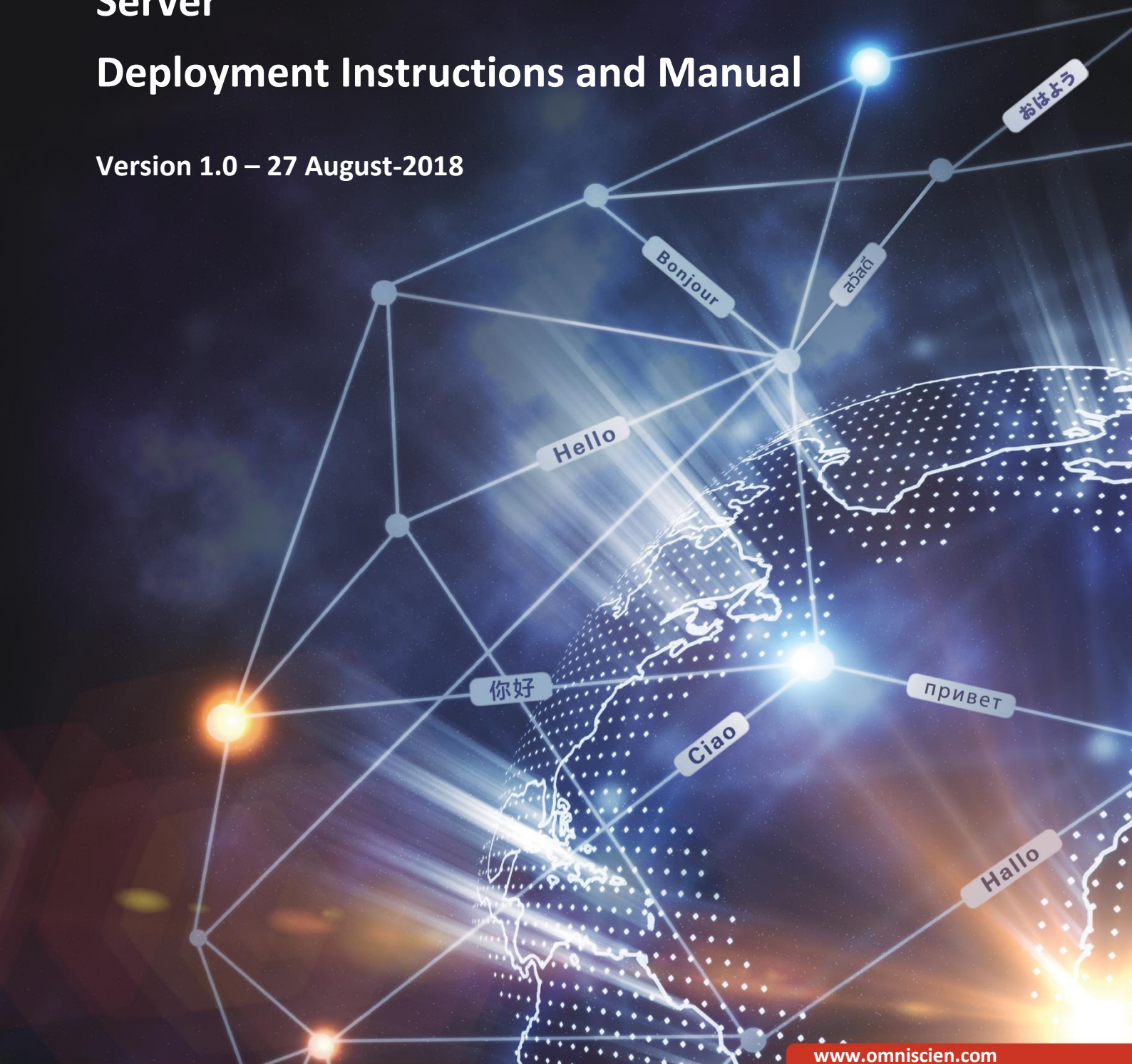




Language Studio Enterprise Translation Server

Deployment Instructions and Manual

Version 1.0 – 27 August-2018



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1. RELEASE NOTE SUMMARY

The LSETS 1.0 release introduces the table below summarizes the bugs fixed and enhancement.

Software Release	Enhancements /Bugs Fixed
LSETS (Language Studio Enterprise Translation Server)	Release initial version <ul style="list-style-type: none">• Release first version of LSETS

2. INTRODUCTION

This document provides instruction on how to set up and install Language Studio Enterprise Translation Server.

Below is an overview of the sections in the documentation.

- Section 3 – System Requirement
 - This section explains the hardware and software requirements needed to install the software.
- Section 4 – Install Ubuntu
 - This section has some important instructions on installing Ubuntu and which versions.
- Section 5 – Install Docker and Language Studio Enterprise Translation Server (LSETS)
 - To install Language Studio Enterprise Translation Server, a Docker will need to be installed onto the system. Instructions here explain how this is done.
 - Instructions on how to install the software.
- Section 6 – Installing MT Engine
 - Instructions on how to download and install MT engines for the software.
- Section 7 – How to translate
 - Instructions on how to Language Studio Enterprise Translation Server (LSETS).

3. SYSTEM REQUIREMENTS

3.1. Hardware Requirements

The system requirements are specific to each installation depending on their requirements. For 4 MT engines, there is a standard specification provided in a separate Hardware and Pricing document.

Your account manager will provide a uniquely tailored and detailed specification for hardware if the number of engines exceeds 4 on a case by case basis that is specific to the requirements.

3.2. Summary of Software Requirements

1. Operating system Ubuntu 16.04
2. Memory \geq 256 GB
3. CPU \geq 64 cores
4. Storage \geq 2 TB
5. Docker version \geq 17.12.0-ce
6. CUDA version 8

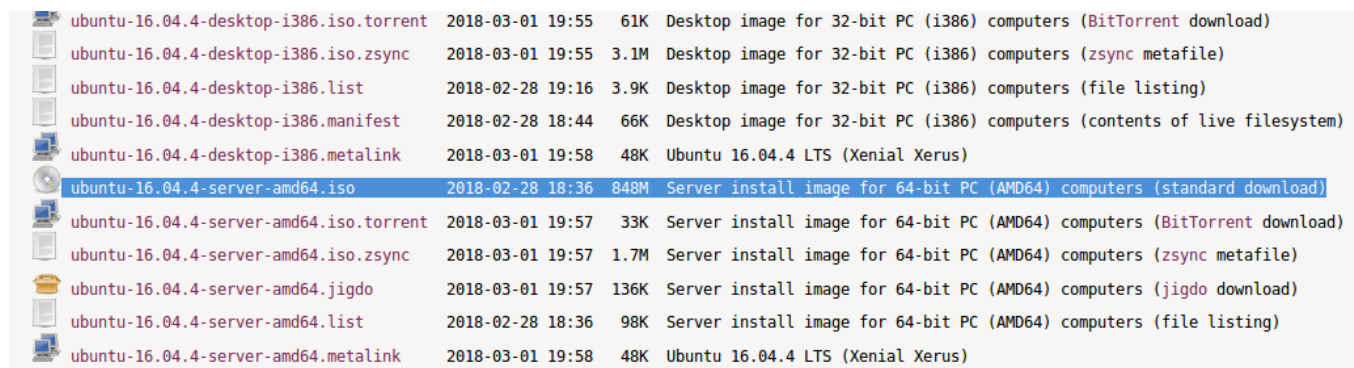
4. INSTALL UBUNTU 16.04

4.1. Download Ubuntu 16.04 64-Bit Server

Download Ubuntu 16.04 64bit Server from the URL below.

<http://releases.ubuntu.com/16.04/>

Download file name “ubuntu-16.04.4-server-amd64.iso”














	ubuntu-16.04.4-desktop-i386.iso.torrent	2018-03-01 19:55	61K	Desktop image for 32-bit PC (i386) computers (BitTorrent download)
	ubuntu-16.04.4-desktop-i386.iso.zsync	2018-03-01 19:55	3.1M	Desktop image for 32-bit PC (i386) computers (zsync metafile)
	ubuntu-16.04.4-desktop-i386.list	2018-02-28 19:16	3.9K	Desktop image for 32-bit PC (i386) computers (file listing)
	ubuntu-16.04.4-desktop-i386.manifest	2018-02-28 18:44	66K	Desktop image for 32-bit PC (i386) computers (contents of live filesystem)
	ubuntu-16.04.4-desktop-i386.metalink	2018-03-01 19:58	48K	Ubuntu 16.04.4 LTS (Xenial Xerus)
	ubuntu-16.04.4-server-amd64.iso	2018-02-28 18:36	848M	Server install image for 64-bit PC (AMD64) computers (standard download)
	ubuntu-16.04.4-server-amd64.iso.torrent	2018-03-01 19:57	33K	Server install image for 64-bit PC (AMD64) computers (BitTorrent download)
	ubuntu-16.04.4-server-amd64.iso.zsync	2018-03-01 19:57	1.7M	Server install image for 64-bit PC (AMD64) computers (zsync metafile)
	ubuntu-16.04.4-server-amd64.jigdo	2018-03-01 19:57	136K	Server install image for 64-bit PC (AMD64) computers (jigdo download)
	ubuntu-16.04.4-server-amd64.list	2018-02-28 18:36	98K	Server install image for 64-bit PC (AMD64) computers (file listing)
	ubuntu-16.04.4-server-amd64.metalink	2018-03-01 19:58	48K	Ubuntu 16.04.4 LTS (Xenial Xerus)

Figure 1: Download Ubuntu 16.04 64-bit server

4.2. Install Ubuntu

1. To begin the installation, insert the installation media into your computer and set the computer to boot from this device.
2. When the computer has booted from this media, you will see the following language selection screen appear.
3. Using the keyboard Arrow keys, select the language you would like to use and press Enter. For this tutorial we will be using the default, English.

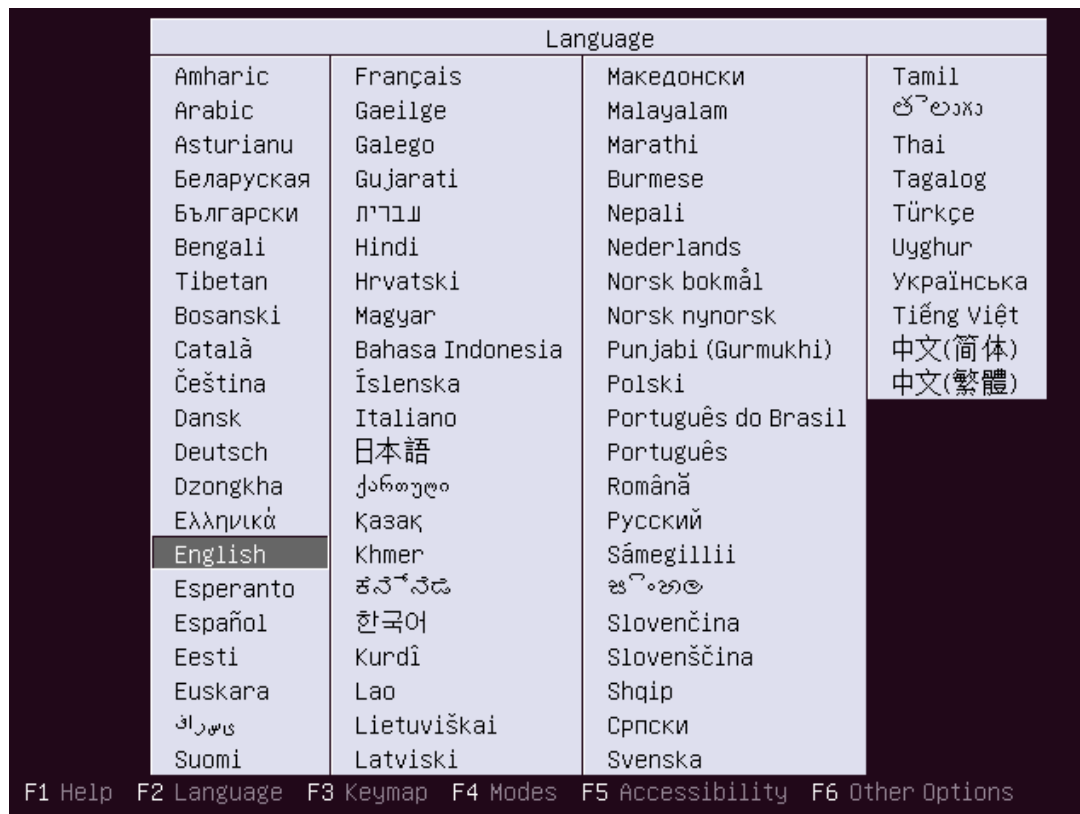


Figure 2: Start to install Ubuntu

- Next, you will be asked to select an action. Since we are installing Linux we will choose the default Install Ubuntu Server by pressing **Enter**.

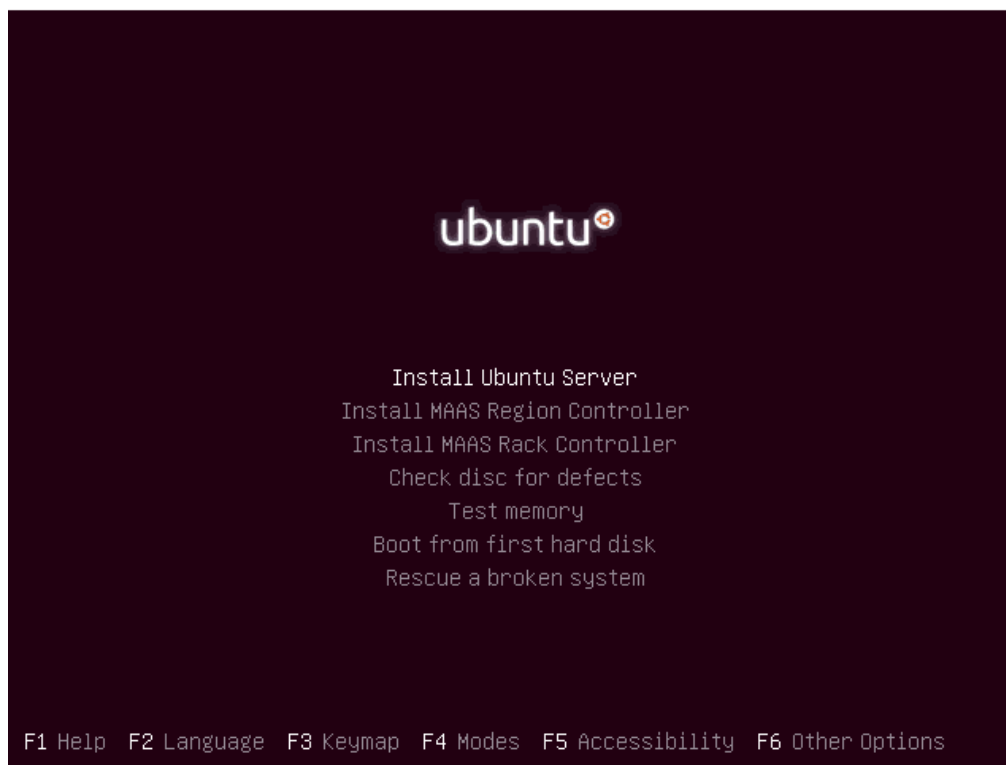


Figure 3: Install Ubuntu server

5. Now that we have begun the installation process, the installer will ask for the language that you would like the system to use during installation and operation. Use the keyboard Arrow keys to make your selection and press **Enter**. We will be using the default, English in this tutorial.

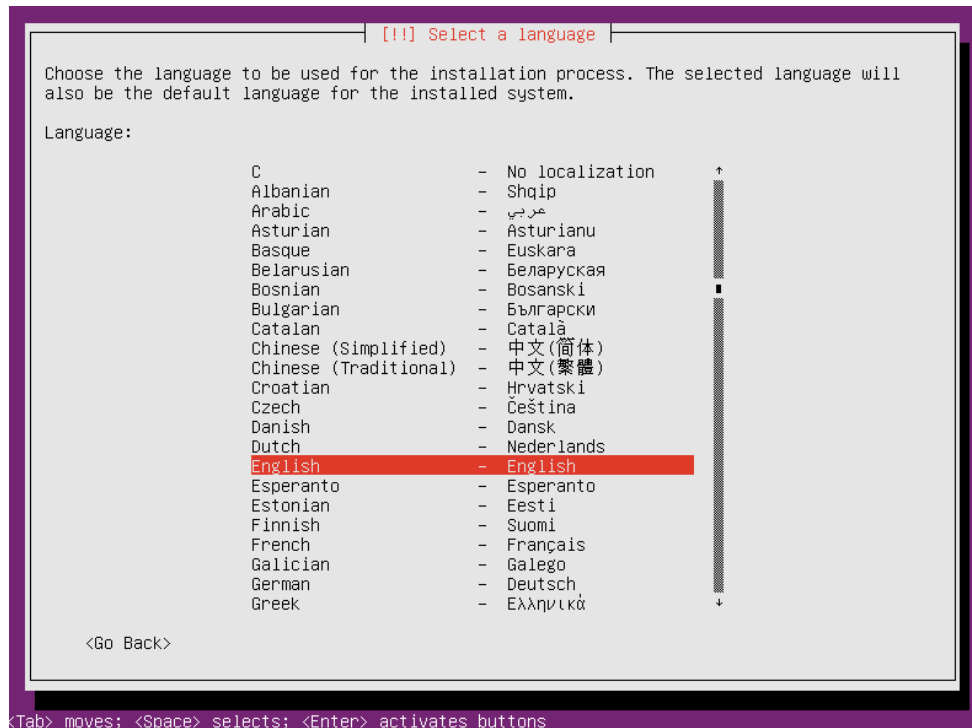


Figure 4: Select language screen

6. Once the system language has been selected you will be asked to select the location the system will use. This setting is used for configuring the locality of several system services. We will choose the default, United States by pressing **Enter**.

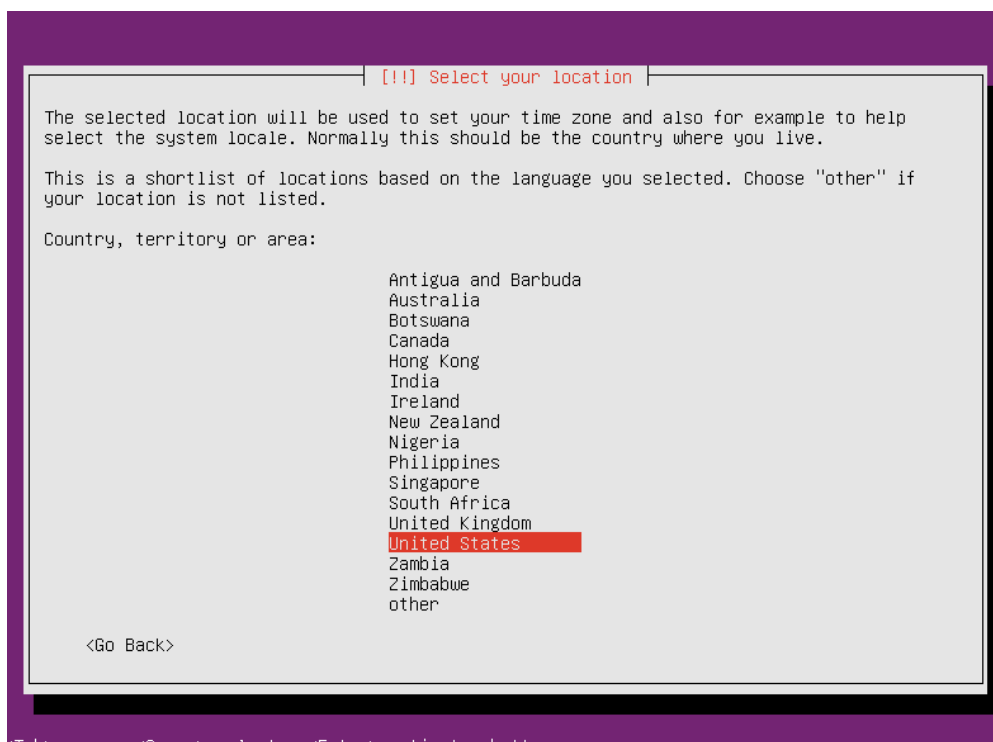


Figure 5: Select location screen

7. The installer will now ask whether or not it should try to detect your keyboard layout. You can select **<Yes>** to allow the system to detect the keyboard layout. If it is successful you will automatically skip to step 8.

If the detection is not successful you will need to complete the manual selection process in steps 6 and 7 as if you had selected **<No>**.

In this tutorial we will select **<No>** to allow us to manually select our keyboard layout. Pressing the **Tab** key will allow you to move between selections.

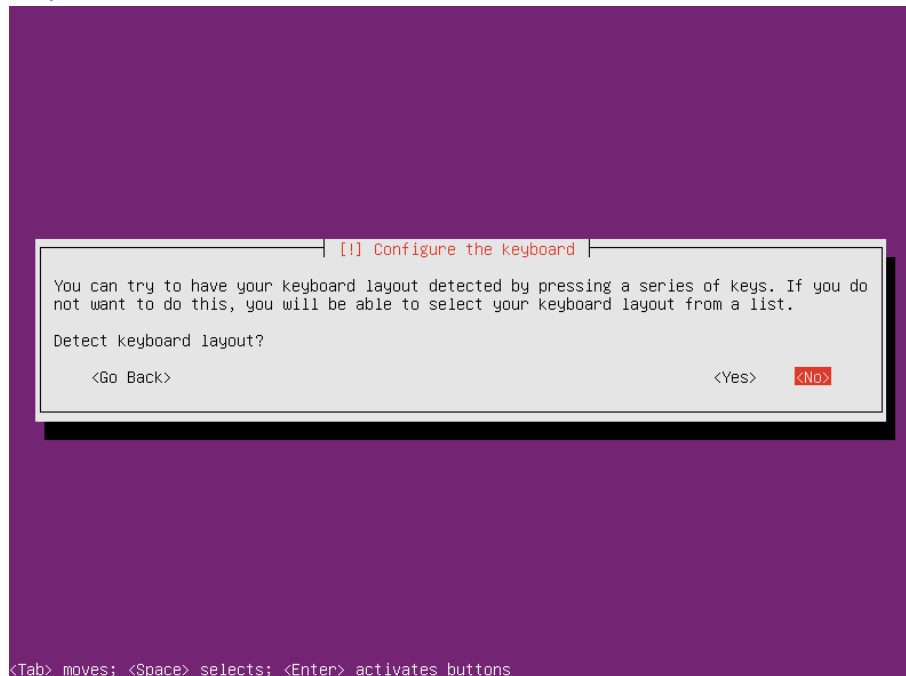


Figure 6: Configure the keyboard screen

8. The first step in selecting your keyboard's layout is to choose the Country of Origin for the keyboard. We will choose English (US) which is the default.



Figure 7: Select layout of keyboard screen

9. Next, you will be asked to select the specific layout within the Country of Origin of your keyboard. We will again choose English (US) which is the default.

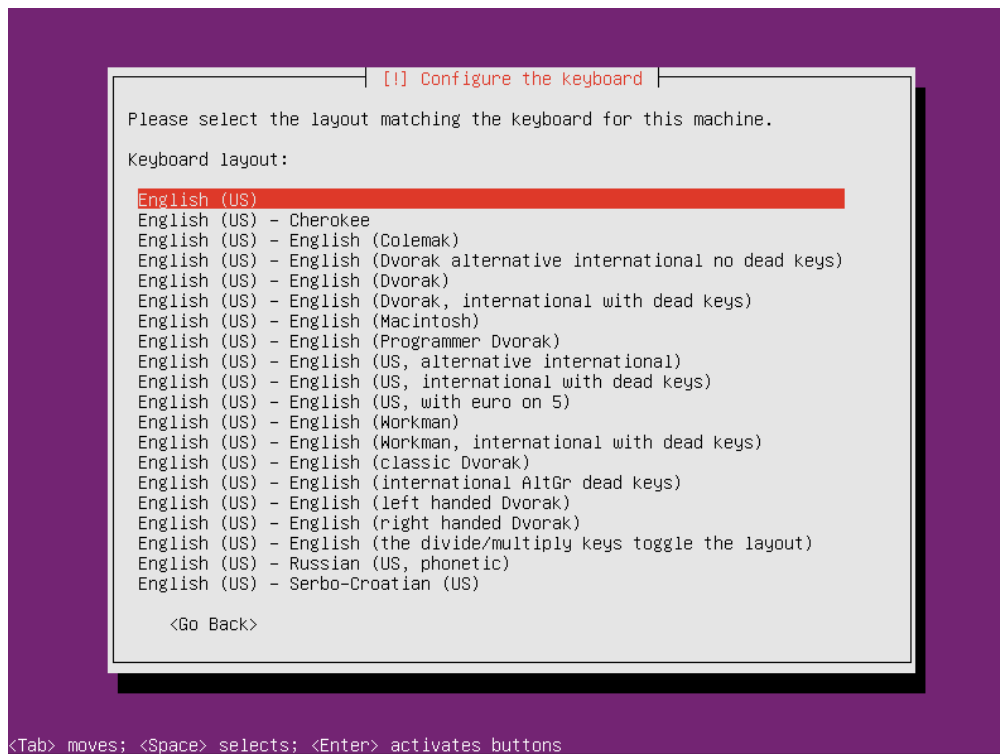


Figure 8: Select layout matching the keyboard screen

10. Your system will now try to automatically configure your network options. If it is unable to do this you will be presented with the following failure message: To continue to the network configuration step press the Enter key.



Figure 9: Configure the network screen

11. To configure your network settings you will be presented with four options.

The first two options allow you to retry the auto-configuration process. These options are useful if you are able to correct the reason your network was not able to be configured automatically and you wish to retry the automatic configuration.

You can also choose to skip configuring the network by selecting “Do not configure the network at this time”. If you choose to skip configuring the network, you will need to manually configure your network settings after installation completes before your system will be able to communicate with other servers on your network.

For our example, we will select **Configure network manually**. After you have made your selection press the **Enter** key to continue.

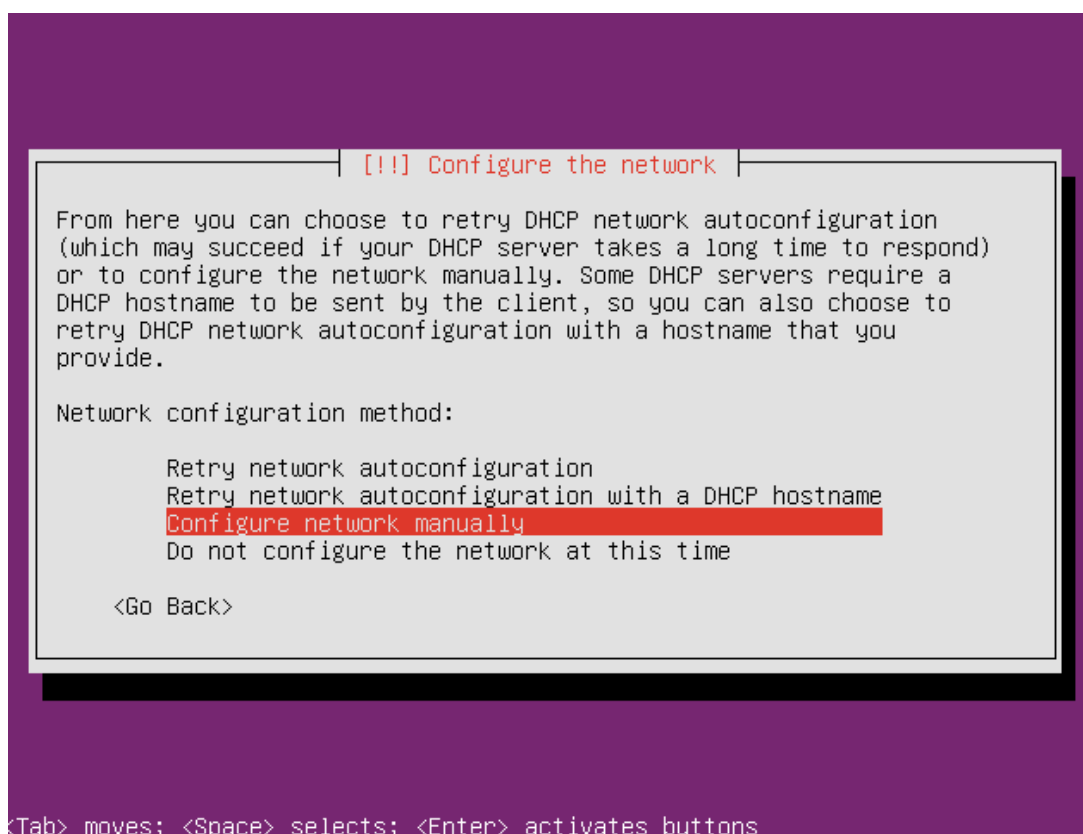


Figure 10: Select the network screen

12. Now that we have selected “Configure network manually” we will be asked to enter the Internet Protocol (IP) address for our system. If you do not know your IP address please consult your network administrator for the information.

In this example we will use the IP address 1.2.3.4.

In the field provided, enter the IP address of 1.2.3.4. When done, press the **Tab** key until you get to **<Continue>** and then press the **Enter** key.

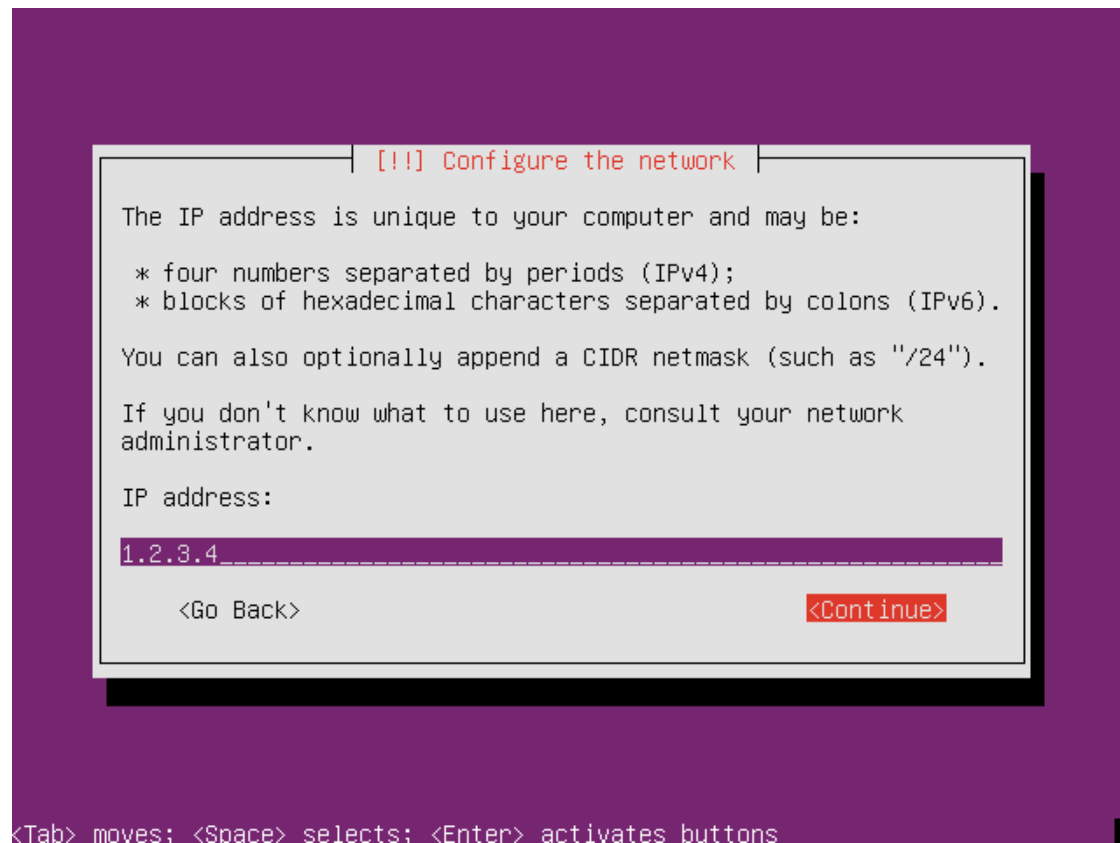


Figure 11: Configure IP address screen

13. You will next be prompted to enter the network mask for your network. Again, if you do not know your network mask, please consult your network administrator for the information.

In our example we will use the default 255.255.255.0 as our network mask. Since we are accepting the default network mask of 255.255.255.0 simply press the **Tab** key until you get to **<Continue>** and then press the **Enter** key.

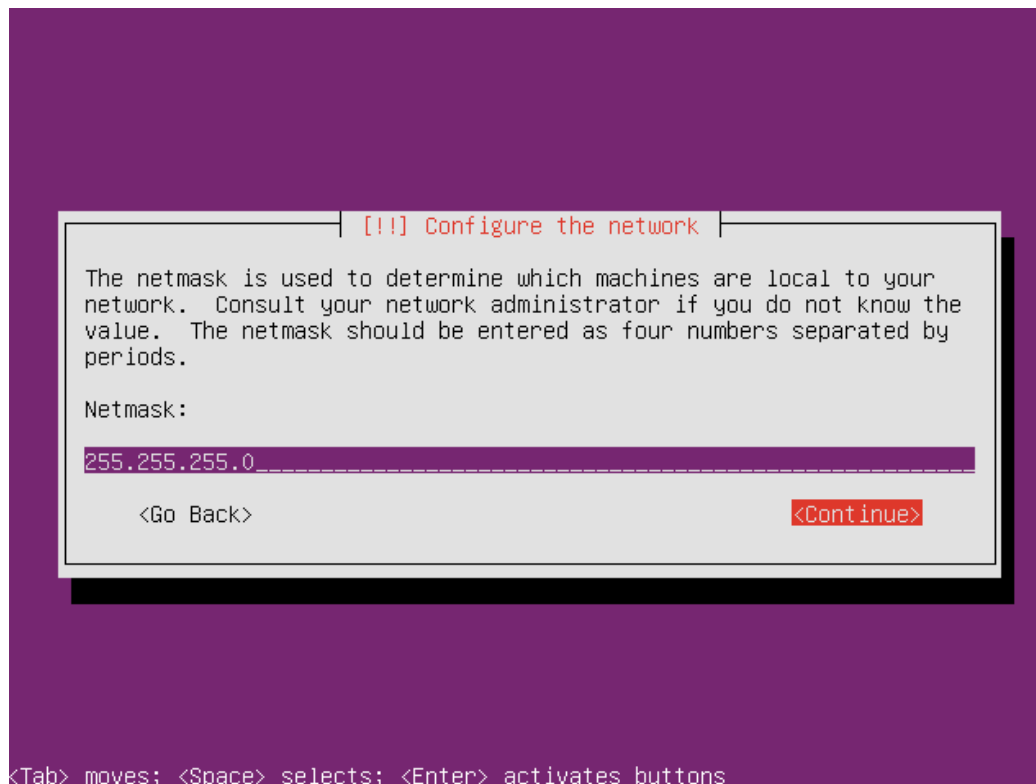


Figure 12: Configure Netmask screen

14. In this step we will enter the IP address of the network gateway for our network. Your network administrator can provide this information to you if you do not know what it is.

In our example we will use the address 1.2.3.1 as our gateway address. In the field provided, enter the IP address of 1.2.3.1 for the gateway address. When done, press the **Tab** key until you get to **<Continue>** and then press the **Enter** key.

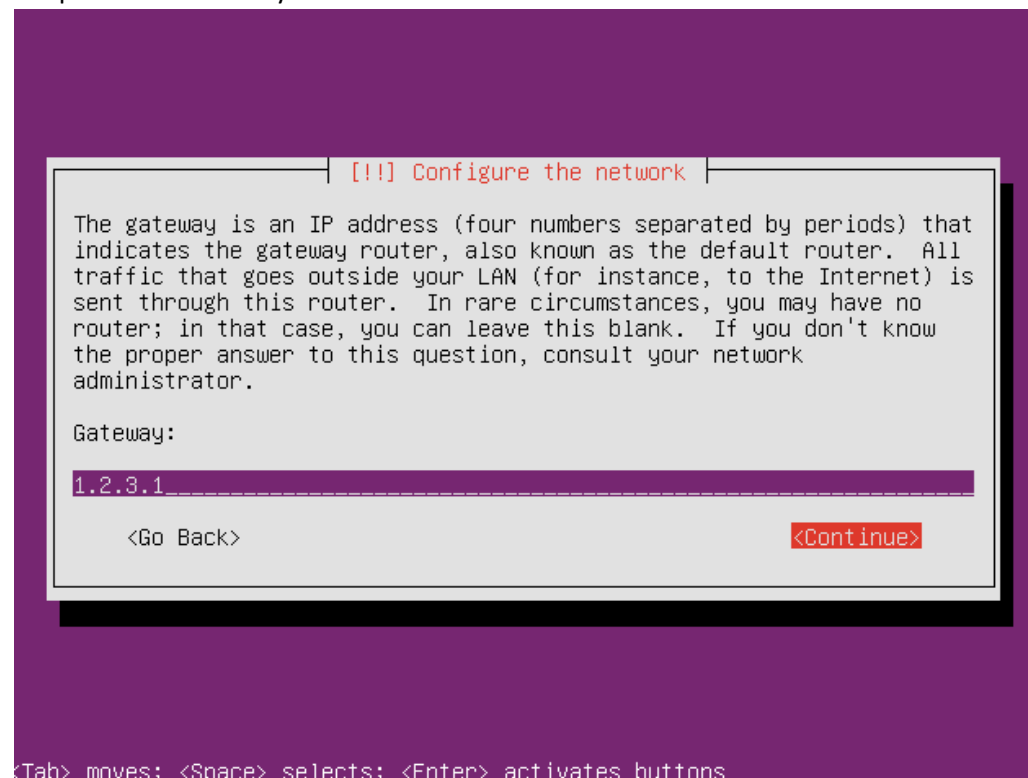


Figure 13: Configure Gateway screen

15. In this step we will enter the IP address of the primary name server for our network. Your network administrator can provide this information to you if you do not know what it is.

In our example we will use the address 8.8.8.8 as our name server address. In the field provided, enter the IP address of 8.8.8.8 for the name server address. When done, press the **Tab** key until you get to **<Continue>** and then press the **Enter** key.

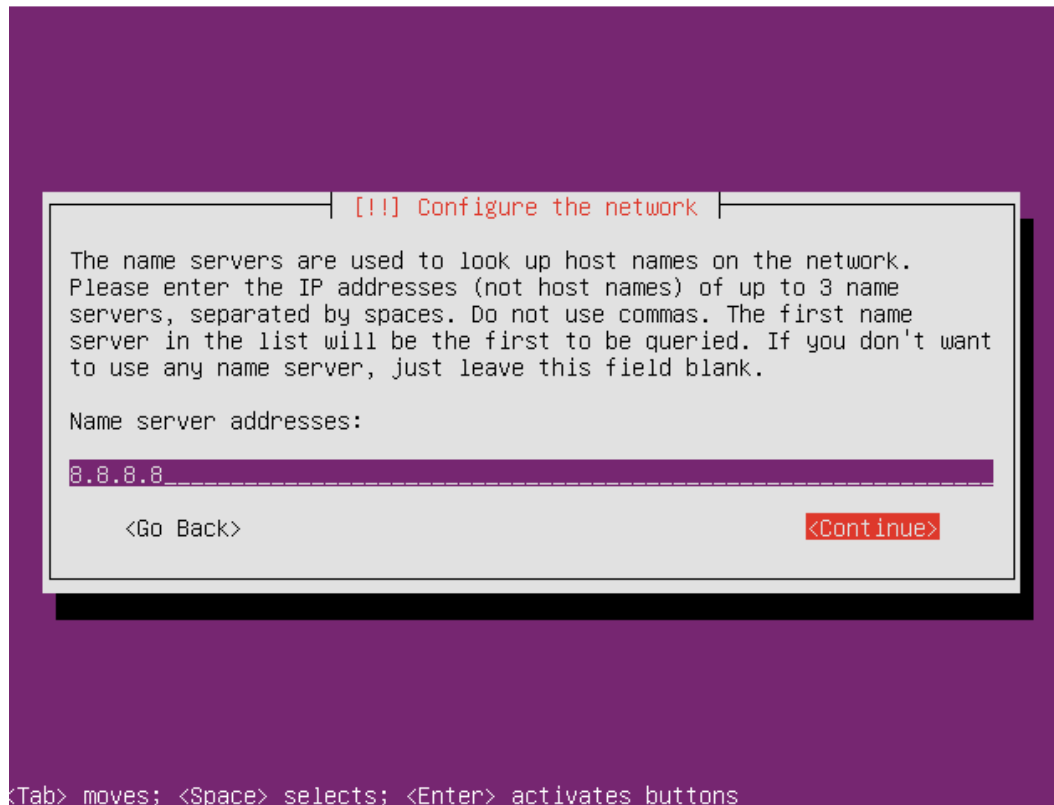


Figure 14: Configure name server address screen

16. Next, you will be asked to enter the name that this host will be known as. This name can be a single word (no spaces) and should not contain special characters such as "%". It is common, however, for system administrators to utilize a dash "-" in their host names. (Such as web-server-1).

When selecting your host's name, it is important to select a meaningful name to prevent confusion with other hosts on your network. Since the host we are building in this tutorial will not appear on a network we will leave the host name as its default value of Ubuntu. Press the **Tab** key until you get to **<Continue>** and then press the **Enter** key.

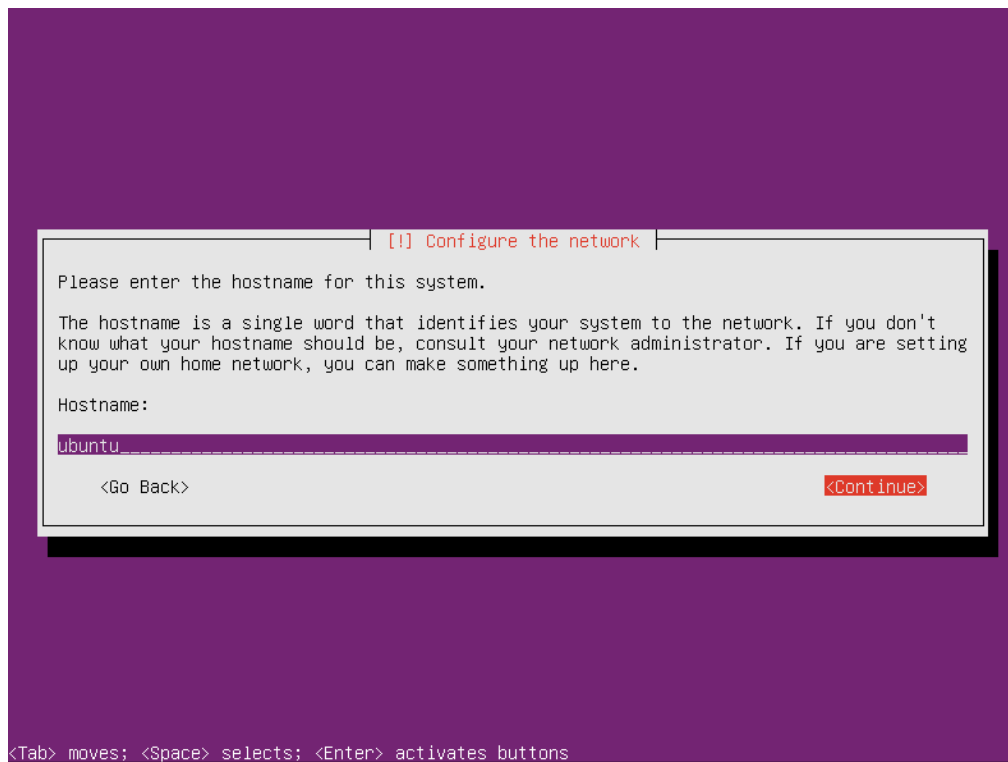


Figure 15: Configure Host name screen

17. In this step, you will be asked to enter the full name of the primary user of the system. (Note: On Ubuntu systems, this user is NOT the root super user but will have administrative capabilities)

On our system we will set this user name to TechOnTheNet but you may choose to use your full name (e.g. John Doe). Press the **Tab** key until you get to **<Continue>** and then press the **Enter** key.

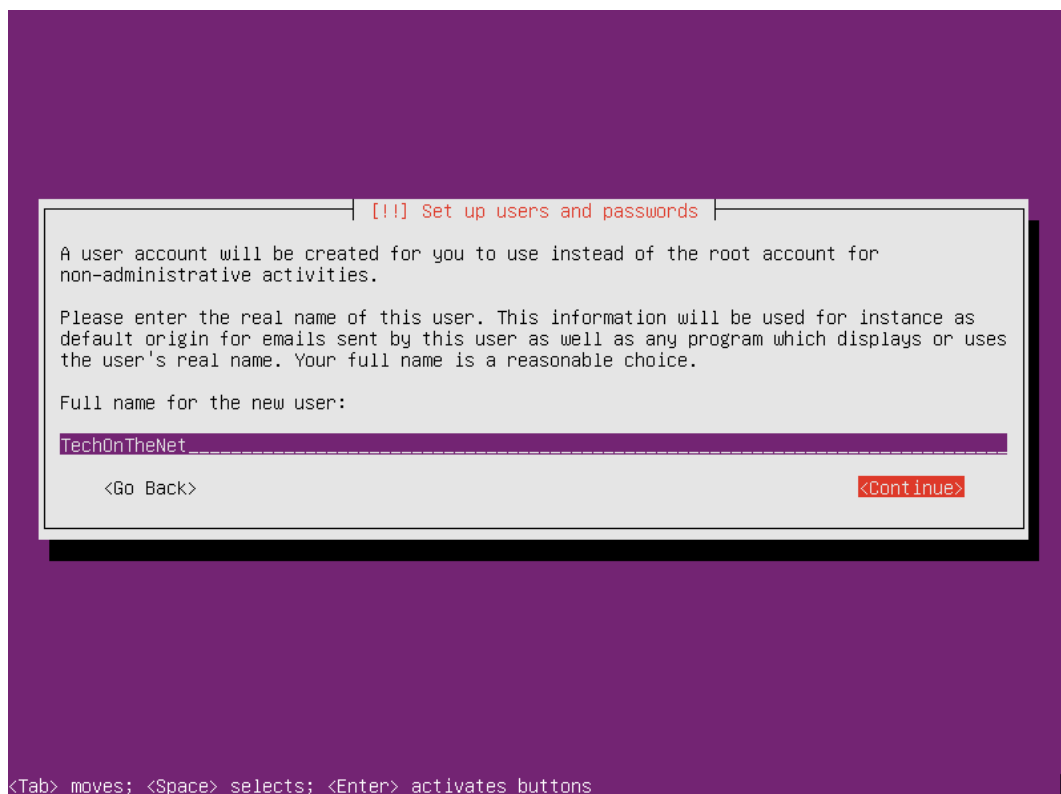


Figure 16: Configure full name for new user

18. Next, we will enter the user name we will use to log in. This name should be lowercase and not include spaces or non-alphanumeric characters (characters that are not numbers or alphabetic characters). In our example we will use techonthenet for our user account. Press the **Tab** key until you get to **<Continue>** and then press the **Enter** key.

The screenshot shows a terminal window with a purple background. At the top, a title bar reads "[!!] Set up users and passwords". The main text area contains the following instructions: "Select a username for the new account. Your first name is a reasonable choice. The username should start with a lower-case letter, which can be followed by any combination of numbers and more lower-case letters." Below this, it says "Username for your account:". A text input field contains the username "techonthenet". At the bottom of the input area, there are two buttons: "<Go Back>" on the left and "<Continue>" on the right. At the very bottom of the terminal window, a status bar reads "<Tab> moves; <Space> selects; <Enter> activates buttons".

Figure 17: Configure username account

On this screen, you will need to enter the password you would like to use for the techonthenet user account. It is important to choose a strong password that cannot be easily guessed and that you will remember! (typically, strong passwords are more than 8 characters long and contain upper/lower case characters and have numbers or special characters such as a "\$".) After entering the password, press the **Tab** key until you get to **<Continue>** and then press the **Enter** key.

The screenshot shows a terminal window with a purple background. At the top, a title bar reads "[!!] Set up users and passwords". The main text area contains the following instructions: "A good password will contain a mixture of letters, numbers and punctuation and should be changed at regular intervals." Below this, it says "Choose a password for the new user:". A text input field is filled with masked characters "xoxoxoxox". Below the input field, there is a checkbox labeled "[] Show Password in Clear". At the bottom of the input area, there are two buttons: "<Go Back>" on the left and "<Continue>" on the right. At the very bottom of the terminal window, a status bar reads "<Tab> moves; <Space> selects; <Enter> activates buttons".

Figure 18: Configure password

19. In this step, you will be asked to re-enter the password you used from the previous step. This is to ensure that the passwords match. After re-entering the password, press the **Tab** key until you get to **<Continue>** and then press the **Enter** key.

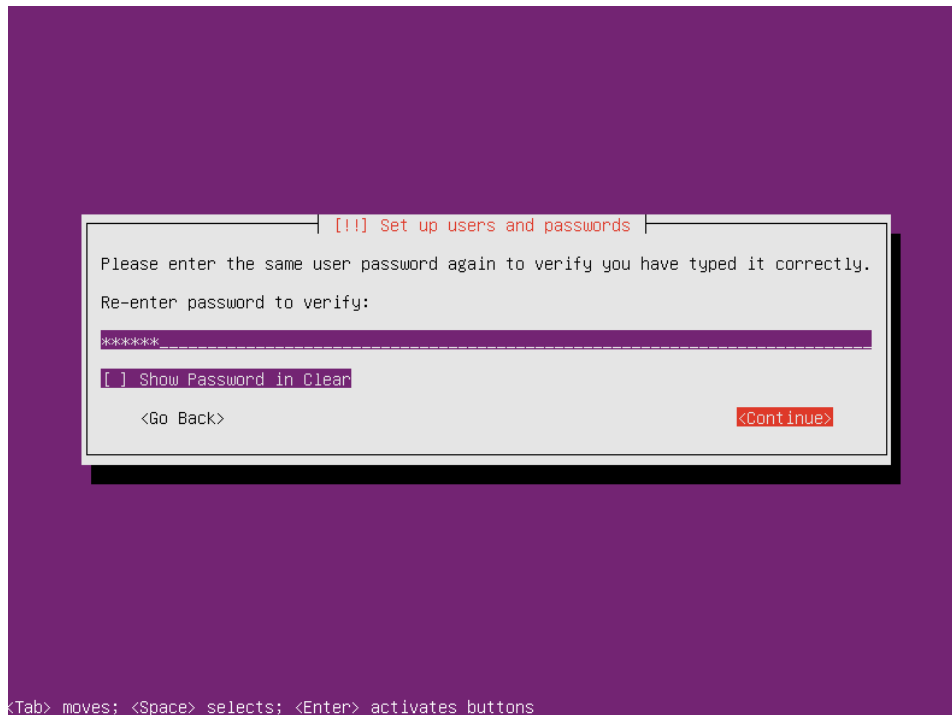


Figure 19: Re-enter password screen

20. If you entered a weak password, the installer will prompt you to confirm that you want to proceed or re-enter a stronger password. Since our machine will only be used for this tutorial, we will accept the risk and continue. If you choose **<No>** you will have to repeat the password selection (steps 11 and 12). If you choose **<Yes>** you will proceed to the next step.

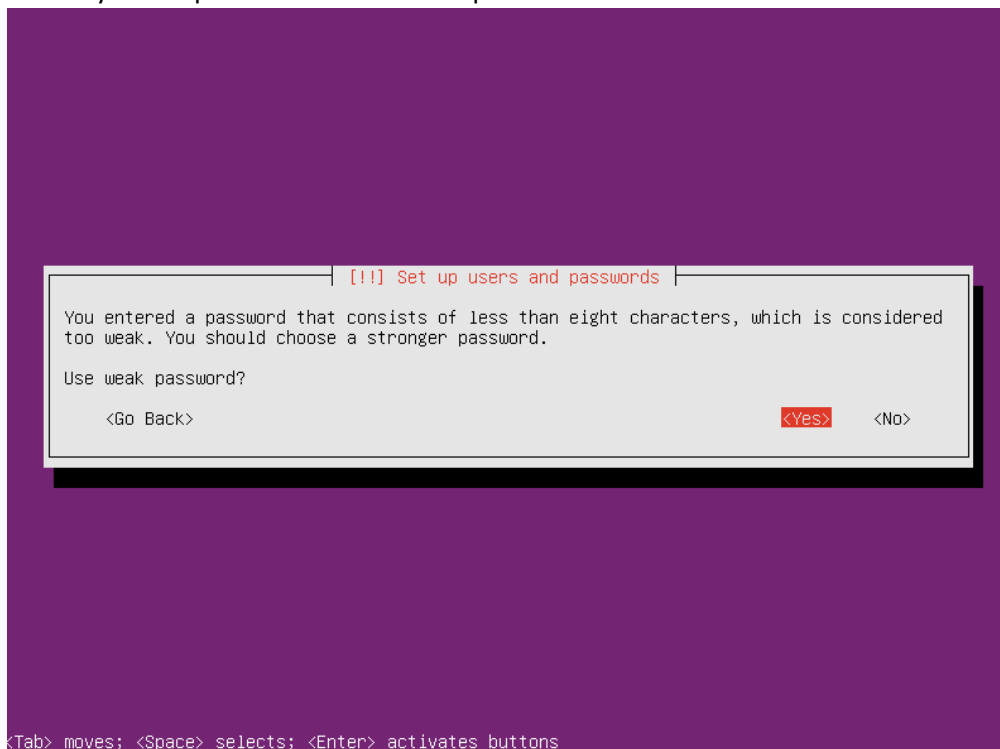


Figure 20: Check strong password screen

21. Ubuntu allows you to encrypt your home directories for security. This is useful for situations where users require security on items they keep in their home directories.

For this tutorial, we will select **<No>** and not encrypt the home directories.

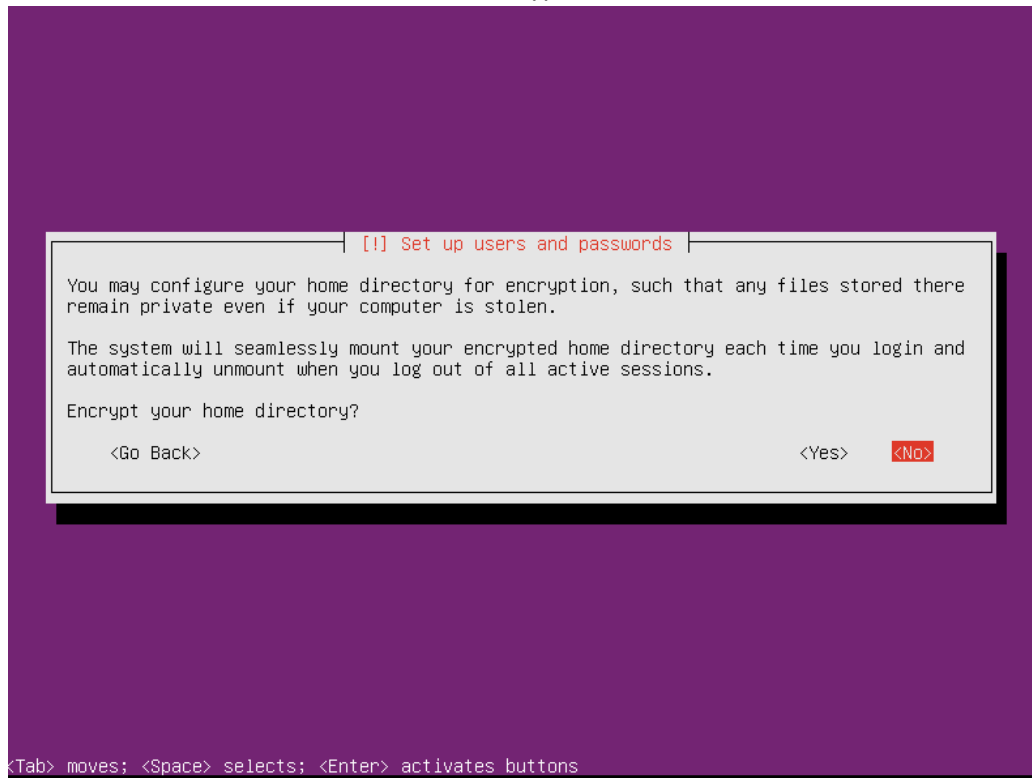


Figure 21: Encrypt home directory screen

22. In this step, you will configure the clock and choose the time zone your computer will use. The system time services will use this setting to display the correct local time. On our system, we will select the Pacific time zone.

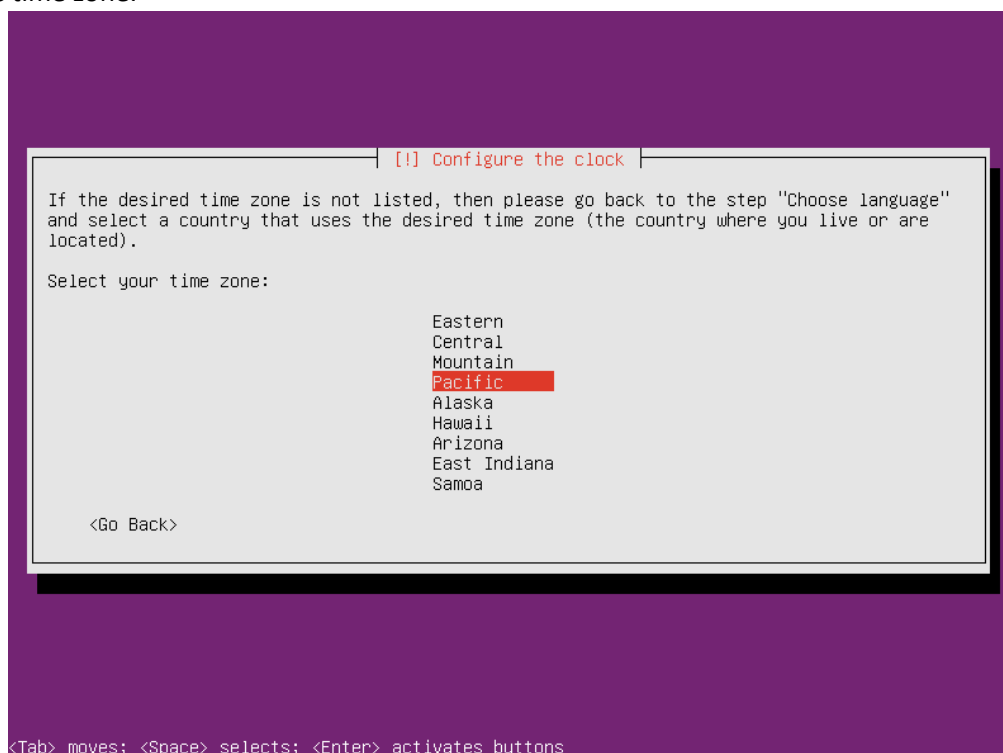


Figure 22: Select time zone screen

23. Ubuntu will now ask you to configure your hard disk partitions. There are several choices available:

Guided - use entire disk

- Creates a non-LVM (Logical Volume Manager) partition layout which follows a more traditional UNIX layout. This scheme creates fixed partitions which cannot be easily changed without re-installation or advanced knowledge of Linux.

Guided - use entire disk and set up LVM

- Allocates a small boot partition and places the remaining available disk space into a logical volume in which the other partitions will be created. LVM allows additional flexibility in how the logical volume will be laid out or changed in the future.

Guided - use entire disk and set up encrypted LVM

- Creates a similar partition layout as the previous option but encrypts the logical volume with a password.

Manual

- Allows manual configuration of disk partitions. This is an advanced mode typically used by experienced UNIX administrators and allows full control over the layout of the partitions.

For this tutorial we will choose the second option which is “Guided - use entire disk and set up LVM”.

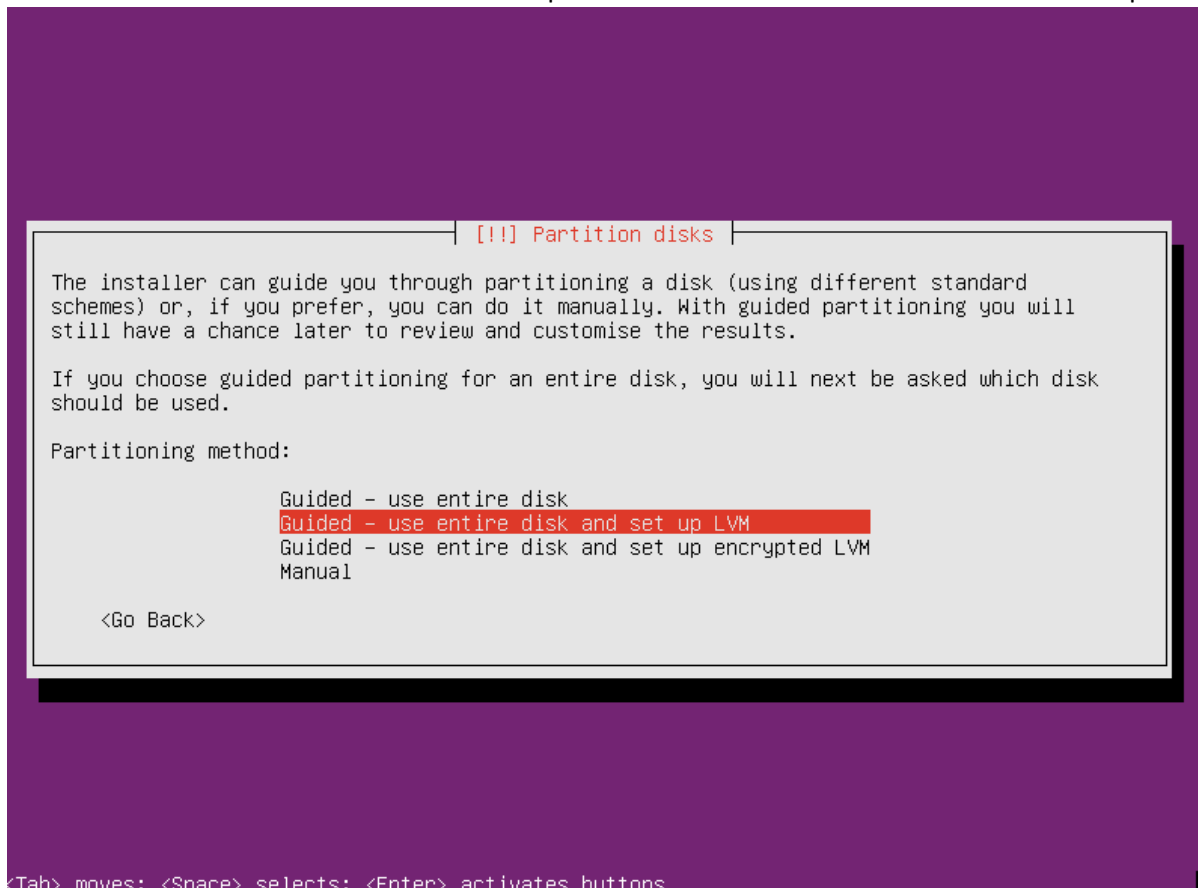


Figure 23: Partition disks screen

24. Next we will need to select the hard disk that we will apply the hard drive partitions to. Since our computer contains only one hard drive we can accept the defaults and continue. If your system has more than one hard disk, you will need to select the appropriate hard drive your system is set to boot from.

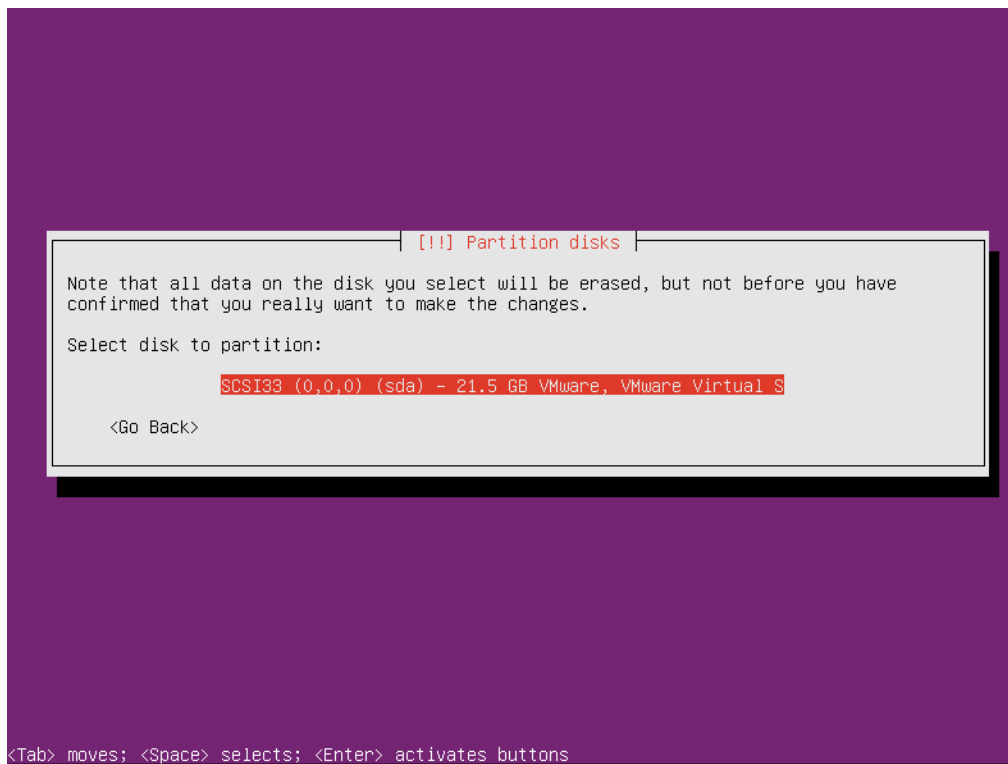


Figure 24: Select disk to partition screen

25. The installer will now confirm that you are prepared to write the partition layout to the hard disk you have selected. If you are ready to apply your selected partition layout to the hard disk, tab to **<Yes>** and then press the **Enter** key.

IMPORTANT: This is your last chance to abort the installation before your hard disk is erased. Please be sure you have backed up any data you would like to keep!

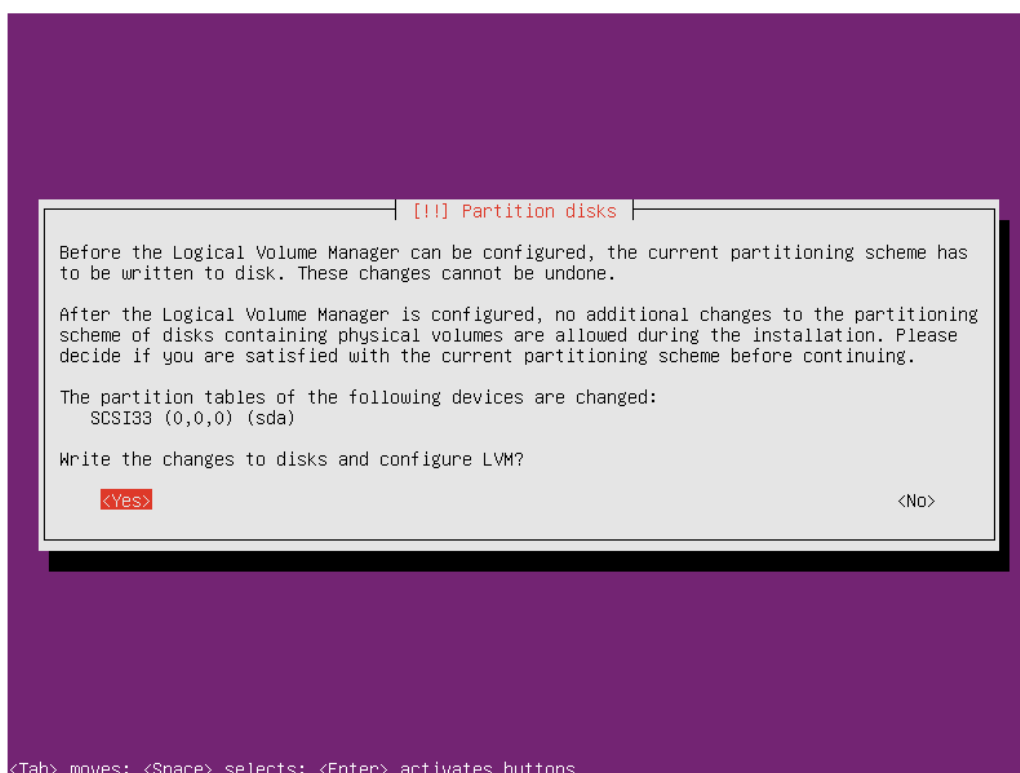


Figure 25: Changing disk partition screen

26. In this step you will be entering the amount of hard disk space you would like the installer to use for Ubuntu Linux Server. The installer will by default fill in the total amount of space available on your hard disk but you can lower this value to leave some space available for other purposes.

Values are typically entered in MB (megabytes), GB (gigabytes) or TB (terabytes).

We will leave the value unchanged which will tell the installer to utilize all available hard disk space. Press the **Tab** key until you get to **<Continue>** and then press the **Enter** key.

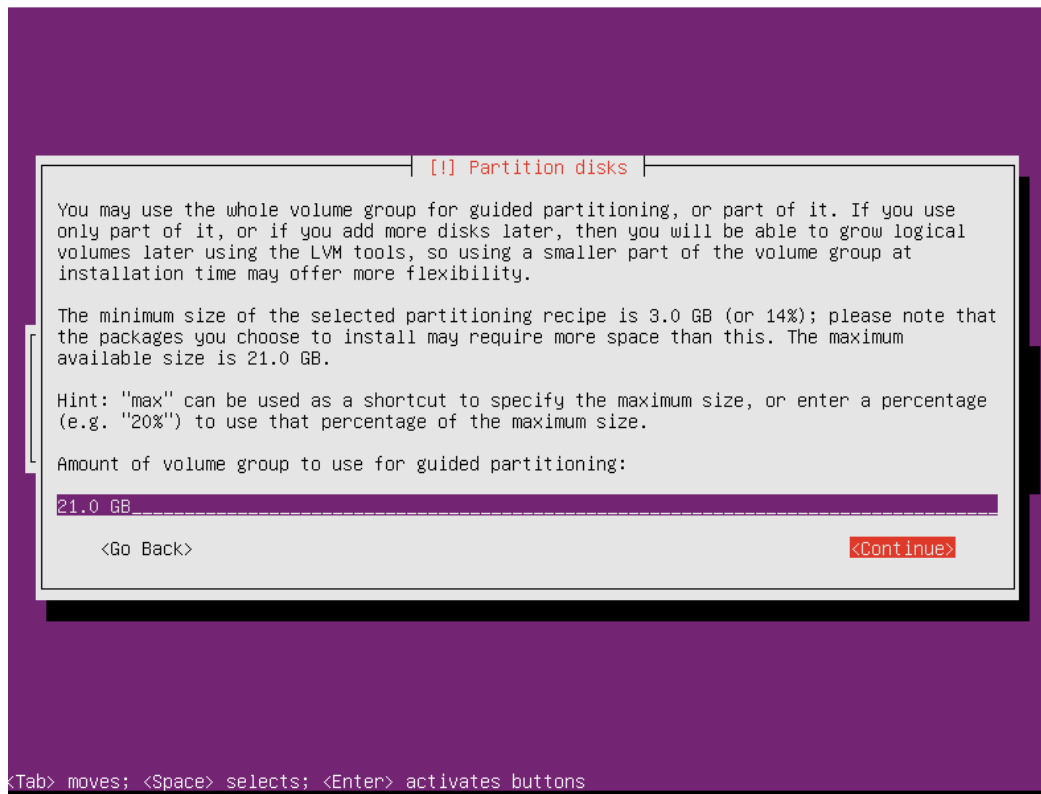


Figure 26: Partition processing screen

27. The installer will confirm that you are ready to write the partition information to the hard disk. Since these settings are correct and we are ready to write the partition information we will select **<Yes>** to continue.

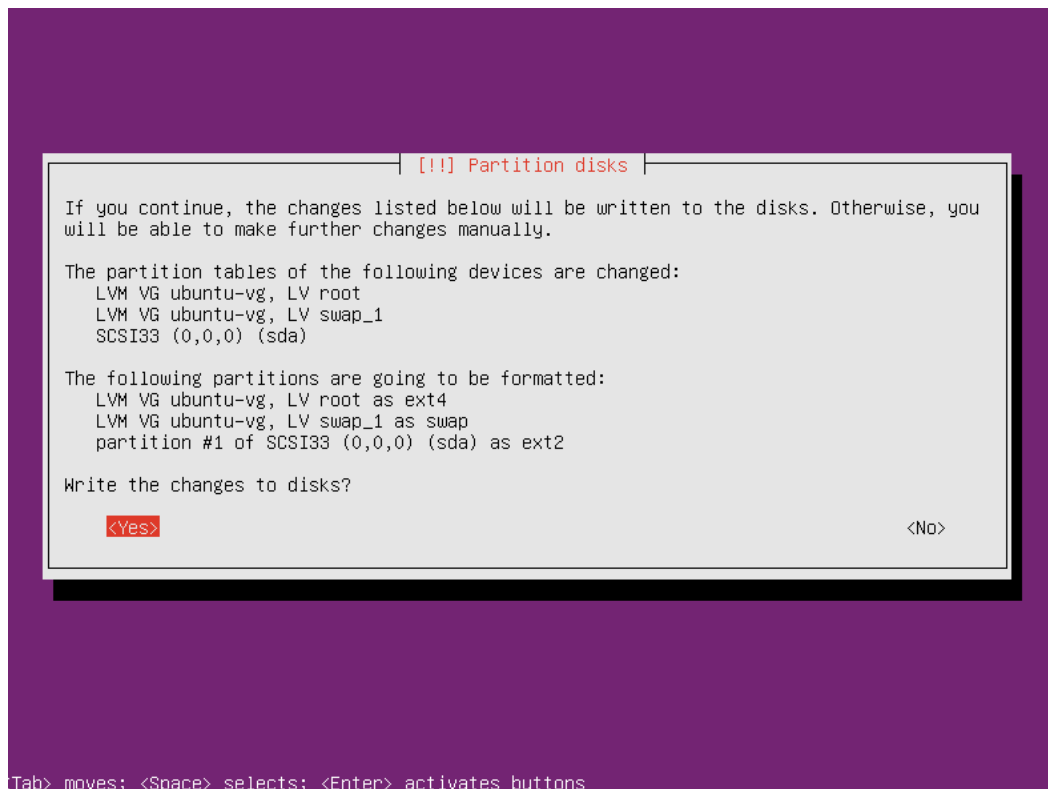


Figure 27: Partition disk to detail screen

28. If you utilize a HTTP proxy on your network, you can enter the proxy information on this screen. In this tutorial we will not provide any HTTP proxy information so we press the **Tab** key until we get to **<Continue>** and then press the **Enter** key.

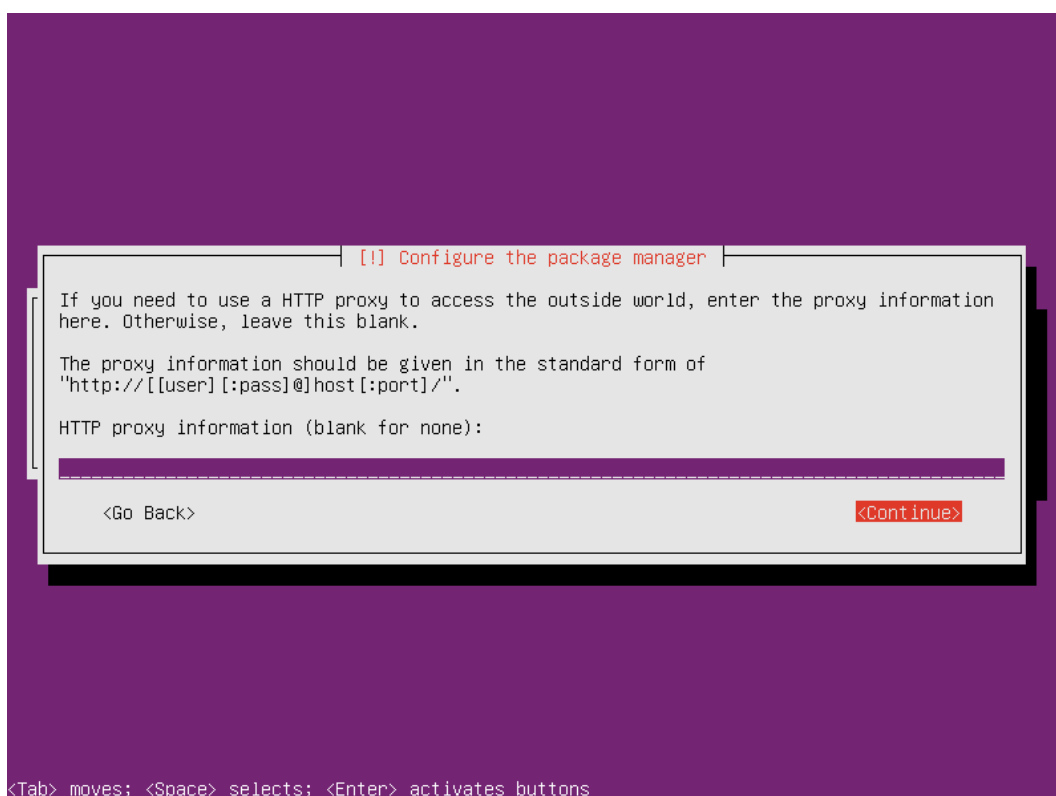


Figure 28: Setting HTTP proxy screen

29. Next, the installer will ask if you would like to configure automatic system updates. The options available are:

No automatic updates

- The system will not apply any updates automatically. System updates will require manual intervention by a system administrator.

Install security updates automatically

- Updates which resolve security issues will be applied automatically once per day.

Manage system with Landscape

- System updates will be managed externally by the Landscape application suite.

Please select **No automatic updates**

30. At this step we will be asked to select any additional software or services we would like to install on the host. By default the standard system utilities option is selected. This option contains many of the system utilities that we will need to manage our system so we will leave it selected.

Since we would like to be able to log into the host using secure shell (SSH) from another host on the network we will also select Opens' server.

You can select a menu option by pressing the **Space Bar**. Moving between menu items can be accomplished by using your keyboard's Arrow keys.

When you are finished selecting the software, select **<Continue>**.

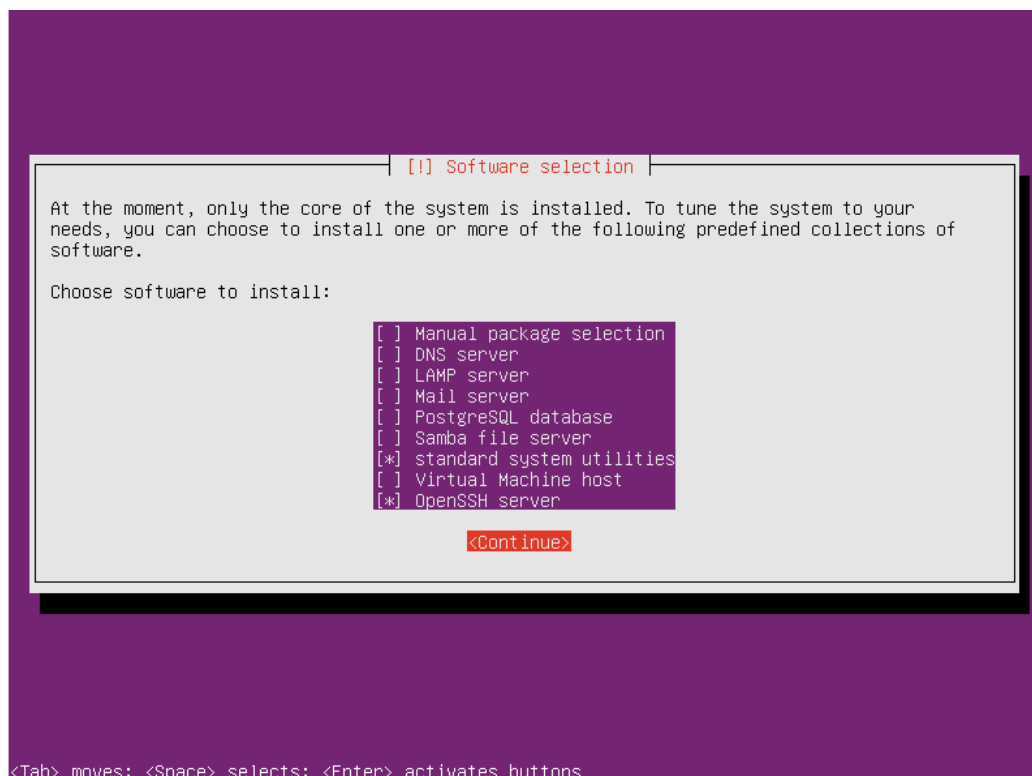


Figure 29: Software selection screen

31. The system will now ask to install the GRUB boot loader onto the master boot record of your hard disk. GRUB is used during the boot up process to enable Ubuntu Linux Server to load.

We will select **<Yes>** to install the GRUB boot loader.



Figure 30: Confirm install GRUB screen

32. The installation is complete!

The installer will now prompt you to reboot the computer.

Select **<Continue>** to reboot into Ubuntu Linux Server.

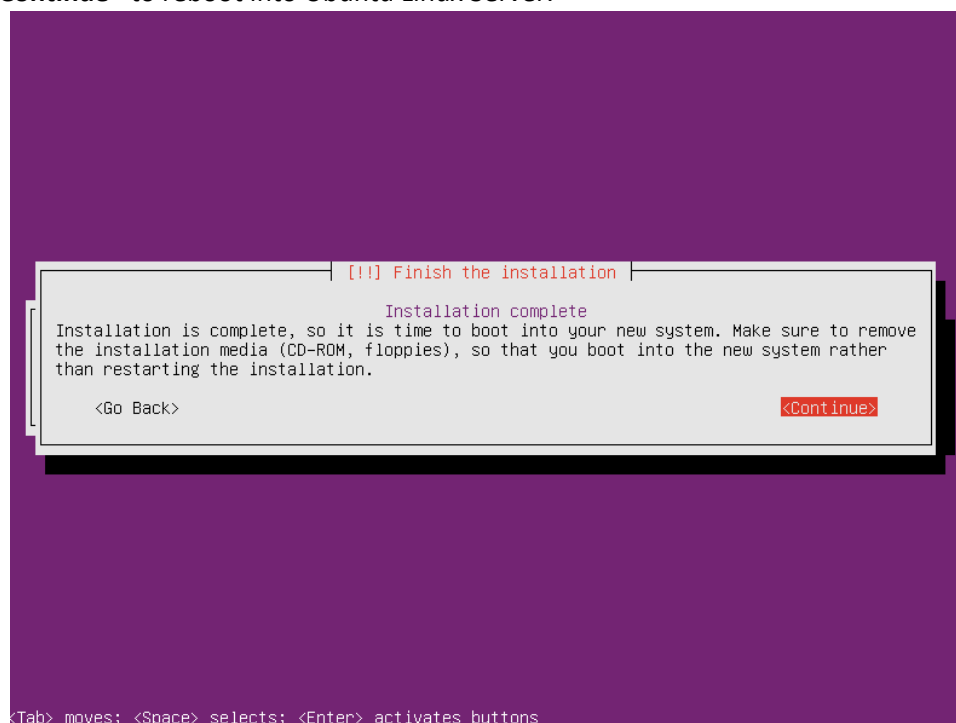


Figure 31: Finish the installation screen

33. If all goes well in a few minutes you will see a login prompt similar to the following screenshot. Congratulations, you've installed Ubuntu Server Linux!

You can now log in using the user name and password you configured during steps 10, 11 and 12



Figure 32: Login screen

5. INSTALL DOCKER AND LSETS

Docker is a tool designed to make it easier to create, deploy, and run applications by using containers.

5.1. Install Docker and LSETS

5.1.1. Copy the “installation” folder to a temp directory path.

```
cp -r /your-path/installation /home/administrator/
```

5.1.2. Go to installation folder and run script to install docker.

```
cd /home/administrator/installation  
./installation.sh
```

Wait until finish.

5.1.3. Update server IP for accessing a web site.

Go to host docker machine and edit the XML configuration file.

```
nano /home/dockeruser/lsets/data/services/lsetx/resources/LSETXServerConfig.xml  
  
<api enabled="1">  
  <apikey>RESTAPIKey-lsetsruntime</apikey>  
  <apiurl>http://[host-ip-address]:9050/lcrestapi/LSRESTAPI.V5.jsp</apiurl>  
</api>
```

6. INSTALLING MT ENGINES

Now that the software has installed, the next part is to download and install your MT engines.

6.1. Access the Administrator Page

LSETS Administrator page requires user to login with the following Login details.

Username: admin

Password: p@s\$w0rd

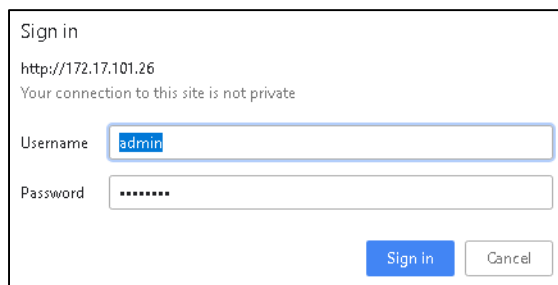


Figure 33: Admin log in screen

To access the engines, the first step is to access the LSETS Administrator. The Administrator page will be as follows: (please change the IP address where appropriate).

<http://172.17.101.26/lsetx/admin/license.jsp>

To get started, you will need to upload and activate the license.

6.2. Uploading and Activating the License

The License tab gives you an overview of your license details.

The first thing you will do is upload the License. This will be in the package sent to you. Click **Choose File** and upload the license.

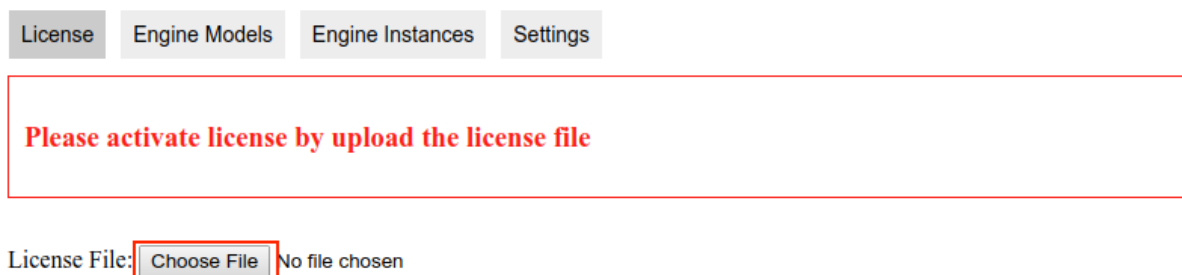


Figure 34: Activating license screen

Once uploaded, a confirmation that the License has updated successfully and is now activated. You will now be able to access the Engine models.

License	Engine Models	Engine Instances	Settings
---------	---------------	------------------	----------

Upload license successfully

License Details	
Name	Detail
Organization Name	Omniscien Technologies
Organization Address	99/999 Thonglor, Maung, Bangkok 10110
Organization Contact Name	Dion Wiggins
Organization Email	dion.wiggins@omniscien.com
Organization Contact Title	CTO
License Start Date	20-Aug-2018
License End Date	20-Oct-2018
Instance License	4

Figure 35: License detail screen

6.3. Installing Engine Models

1. Download engine model into your machine.
2. Copy model file from your machine to a docker host machine.

```
scp -C your-local-path/engine-model-file-name.zip root@[docker-host-ip]:/home/dockeruser/lsets/data/services/lsetx/resources/enginezip/
```

Please change yellow highlight to your information.

your-local-path = The path of downloaded engine model in your local machine.

engine-model-file-name.zip = The file name of engine model.

docker-host-ip = The IP address of your docker host machine.

3. Modify owner file by run a command below.

```
/home/dockeruser/lsets/data/services/lsetx/resources/enginezip/*
```

4. After finished copy model engine file, you can start to install engine model.

Step to install engine model:

1. In the **Engine Models** tab, you will see engine model list located in `/home/dockeruser/lsets/data/services/lsetx/resources/enginezip/`

Engine Models

File Name	Install	Install Date	Delete
20180824-dc1311267-en-fr-patent-and-legal.zip	<input type="button" value="Install"/>		<input type="button" value="Delete"/>
20180822-dc1311153-fr-en-patent-and-legal.zip	<input type="button" value="Install"/>		<input type="button" value="Delete"/>
20180720-dc1311153-fr-en-patent-and-legal.zip	<input type="button" value="Install"/>		<input type="button" value="Delete"/>
20180520-dc1311267-en-fr-patent-and-legal.zip	<input type="button" value="Install"/>		<input type="button" value="Delete"/>

Figure 36: Engine model screen

2. In case no engine model in path (/home/dockeruser/lsets/data/services/lsetx/resources/enginezip/), system should display message.

Engine Models

No engines have been installed. Please install the engine into system.

Figure 37: No engine message

3. Please click Install button to install each engine.

Engine Models

File Name	Install	Install Date	Delete
20180824-dc1311267-en-fr-patent-and-legal.zip	<input type="button" value="Install"/>		<input type="button" value="Delete"/>
20180822-dc1311153-fr-en-patent-and-legal.zip	<input type="button" value="Install"/>		<input type="button" value="Delete"/>
20180720-dc1311153-fr-en-patent-and-legal.zip	<input type="button" value="Install"/>		<input type="button" value="Delete"/>
20180520-dc1311267-en-fr-patent-and-legal.zip	<input type="button" value="Install"/>		<input type="button" value="Delete"/>

Figure 38: Install engine model

- Once installed, the screen will show message and install date.

License Engine Models Engine Instances Settings Reset System

New model successfully created.

Engine Models

File Name	Install	Install Date	Delete
20180824-dc1311267-en-fr-patent-and-legal.zip	<input type="button" value="Install"/>	24-Aug-2018	<input type="button" value="Delete"/>
20180822-dc1311153-fr-en-patent-and-legal.zip	<input type="button" value="Install"/>		<input type="button" value="Delete"/>
20180720-dc1311153-fr-en-patent-and-legal.zip	<input type="button" value="Install"/>		<input type="button" value="Delete"/>
20180520-dc1311267-en-fr-patent-and-legal.zip	<input type="button" value="Install"/>		<input type="button" value="Delete"/>

Figure 39: Install engine model successful

6.4. Updating Engine Models

Note – This step is not for initial set up, but for later use when Omniscien Technologies send on an updated version of the engine.

If Omniscien Technologies send an updated model of an engine, then please delete the appropriate engine and follow the step to install engine model.

Step to delete engine model:

- In the **Engine Models** tab, you will see engine model list located in /home/dockeruser/lsets/data/services/lsetx/resources/enginezip/
- Click **Delete** button to delete the appropriate engine.

Engine Models

File Name	Install	Install Date	Delete
20180824-dc1311153-fr-en-patent-and-legal.zip	<input type="button" value="Install"/>	24-Aug-2018	<input type="button" value="Delete"/>
20180824-dc1311267-en-fr-patent-and-legal.zip	<input type="button" value="Install"/>		<input type="button" value="Delete"/>
20180822-dc1311153-fr-en-patent-and-legal.zip	<input type="button" value="Install"/>		<input type="button" value="Delete"/>
20180720-dc1311153-fr-en-patent-and-legal.zip	<input type="button" value="Install"/>		<input type="button" value="Delete"/>
20180520-dc1311267-en-fr-patent-and-legal.zip	<input type="button" value="Install"/>		<input type="button" value="Delete"/>

Figure 40: Delete engine model

3. System should display confirm message to confirm delete engine model.

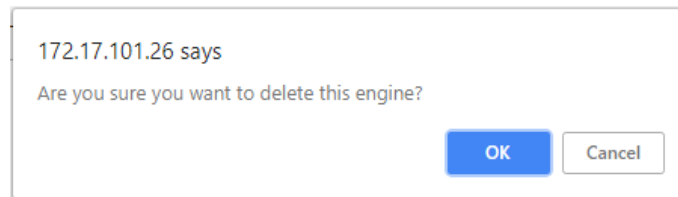
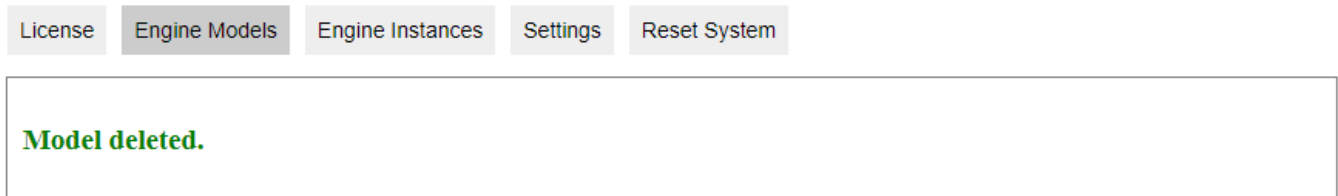


Figure 41: Confirm message to delete engine model

4. Once deleted, the screen will show message and clear install date.



Engine Models

File Name	Install	Install Date	Delete
20180824-dc1311267-en-fr-patent-and-legal.zip	<button>Install</button>		<button>Delete</button>
20180822-dc1311153-fr-en-patent-and-legal.zip	<button>Install</button>		<button>Delete</button>
20180720-dc1311153-fr-en-patent-and-legal.zip	<button>Install</button>		<button>Delete</button>
20180520-dc1311267-en-fr-patent-and-legal.zip	<button>Install</button>		<button>Delete</button>

Figure 42: Engine model deleted

5. After that you can install the updated engine model. Please follow the step to install engine model.

6.5. Setting Engine Instances

For the translations to run, you need to set the engines up on instances of the Translation server. To do this, please follow the instructions below.

Once the engine models have been applied, you can set engines to the available instances. The amount of Instances available depends on your License (under Instance License). So, you could have four separate engines on four separate instances.

The container is translation machine. You should input Container No. following your translation machine amount.

Instance Detail

Instance #	Engine Model	Container No
1	FR-EN Patents Classbase (DNMT Hybrid) - 1311153	1
2	No Engine Assign	1
3	No Engine Assign	1
4	No Engine Assign	1

Save

Figure 43: Setting engine instance

Or for example have two engines on two instances like below. The more instances the engine is assigned to, the likelihood of faster translations.

Select the relevant engine model from each instance then click the Save button.

Instance Detail

Instance #	Engine Model	Container No
1	EN-KO Domain Name (Domain Name2) - 1303001	1
2	EN-KO Domain Name (Domain Name2) - 1303001	1
3	JA-EN Domain Name (Domain Name2) - 1303002	2
4	JA-EN Domain Name (Domain Name2) - 1303002	2

Save

Figure 44: Setting one engine on many instances

Once saved, a confirmation will appear the instances have been saved.

Save instances successfully

Instance Detail

Instance #	Engine Model	Container No
1	EN-KO Domain Name (Domain Name2) - 1303001	1
2	EN-KO Domain Name (Domain Name2) - 1303001	1
3	JA-EN Domain Name (Domain Name2) - 1303002	2
4	JA-EN Domain Name (Domain Name2) - 1303002	2

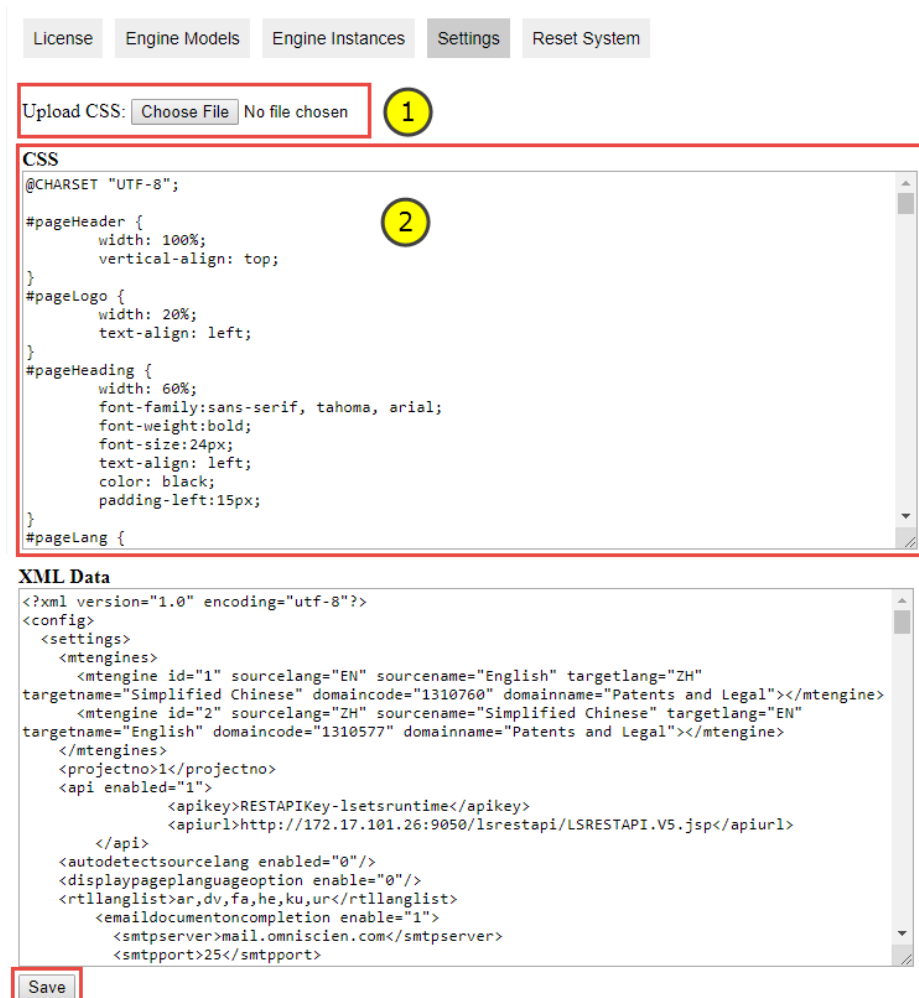
Save

Figure 45: Save engine instances successful

6.6. Setting for Custom View and Configuration

6.6.1. CSS

You can configure your web page to your own views, for example font style, font size, font colour and background colour. To do this, you need a little experience with CSS.



License Engine Models Engine Instances **Settings** Reset System

Upload CSS: No file chosen

CSS

```
@CHARSET "UTF-8";

#pageHeader {
    width: 100%;
    vertical-align: top;
}

#pageLogo {
    width: 20%;
    text-align: left;
}

#pageHeading {
    width: 60%;
    font-family:sans-serif, tahoma, arial;
    font-weight:bold;
    font-size:24px;
    text-align: left;
    color: black;
    padding-left:15px;
}

#pageLang {
```

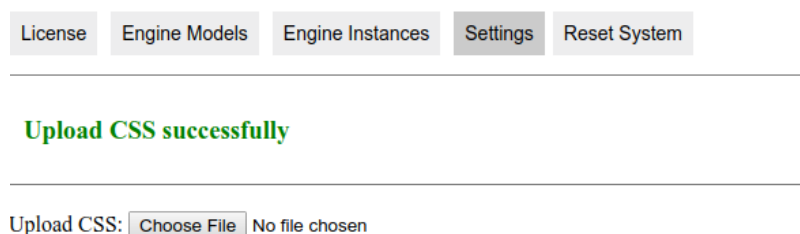
XML Data

```
<?xml version="1.0" encoding="utf-8"?>
<config>
  <settings>
    <mtengines>
      <mtengine id="1" sourcelang="EN" sourcename="English" targetlang="ZH"
targetname="Simplified Chinese" domaincode="1310760" domainname="Patents and Legal"></mtengine>
      <mtengine id="2" sourcelang="ZH" sourcename="Simplified Chinese" targetlang="EN"
targetname="English" domaincode="1310577" domainname="Patents and Legal"></mtengine>
    </mtengines>
    <projectno>1</projectno>
    <api enabled="1">
      <apikey>RESTAPIKey-lsetsruntime</apikey>
      <apiurl>http://172.17.101.26:9050/lrestapi/LSRESTAPI.V5.jsp</apiurl>
    </api>
    <autodetectsourcelang enabled="0"/>
    <displaypageplanguaeoption enable="0"/>
    <rtlallanglist>ar,dv,fa,he,ku,ur</rtlallanglist>
    <emaildocumentoncompletion enable="1">
      <smtpserver>mail.omniscien.com</smtpserver>
      <smtpport>25</smtpport>
    </emaildocumentoncompletion>
  </settings>
</config>
```

Figure 46: Setting CSS screen

Below is step to setting CSS.

1. In the **Settings** tab, click upload your own CSS file (see no.1). Once done, a Success message will appear.



License Engine Models Engine Instances **Settings** Reset System

Upload CSS successfully

Upload CSS: No file chosen

Figure 47: Upload CSS file successful

2. Edit CSS in box no.2, please check the CSS syntax, if some syntax wrong, it will not impact.
3. After finish editing, click **Save** to save the changes. Once done, a Success message will appear.

Save CSS and XML successfully

Upload CSS: No file chosen

Figure 48: Save CSS file successful

6.6.2. XML Data

You can change your own logo, company name your, mail server, etc. To do this, you need a little experience with XML.

License Engine Models Engine Instances Settings Reset System

Upload CSS: No file chosen

CSS

```
@CHARSET "UTF-8";

#pageHeader {
    width: 100%;
    vertical-align: top;
}
#pageLogo {
    width: 20%;
    text-align: left;
}
#pageHeading {
    width: 60%;
    font-family:sans-serif, tahoma, arial;
    font-weight:bold;
    font-size:24px;
    text-align: left;
    color: black;
    padding-left:15px;
}
#pageLang {
```

XML Data

```
<?xml version="1.0" encoding="utf-8"?>
<config>
  <settings>
    <mtengines>
      <mtengine id="1" sourcelang="EN" sourcename="English" targetlang="ZH"
targetname="Simplified Chinese" domaincode="1310760" domainname="Patents and Legal"></mtengine>
      <mtengine id="2" sourcelang="ZH" sourcename="Simplified Chinese" targetlang="EN"
targetname="English" domaincode="1310577" domainname="Patents and Legal"></mtengine>
    </mtengines>
    <projectno>1</projectno>
    <api enabled="1">
      <apikey>RESTAPIKey-lsetsruntime</apikey>
      <apiurl>http://172.17.101.26:9050/lcrestapi/LSRESTAPI.V5.jsp</apiurl>
    </api>
    <autodetectsourcelang enabled="0"/>
    <displaypagelanguageoption enable="0"/>
    <rtlallanglist>ar,dv,fa,he,ku,ur</rtlallanglist>
    <emaildocumentoncompletion enable="1">
      <smtpserver>mail.omniscien.com</smtpserver>
      <smtpport>25</smtpport>
    </emaildocumentoncompletion>
  </settings>
</config>
```

Figure 49: Setting XML screen

Below is step to edit XML.

1. In the **Settings** tab, edit XML in red box.
2. After finish editing, click **Save** to save the changes. Once done, a Success message will appear.

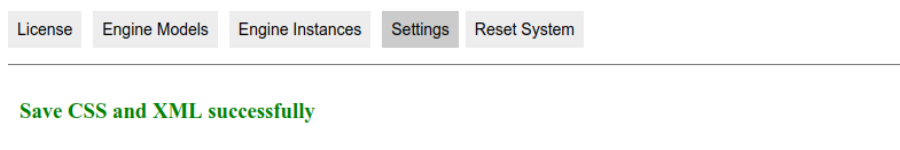


Figure 50: Save changed XML

3. Editable parameters

No.	Name	Description	Value example
1	API configuration		
2	apikey	API key, please contact sale to get API key.	
3	apiurl	URL of API http://172.17.105.172/lsrestapi/L SRESTAPI.V5.jsp	Please change your IP in yellow highlight
4	rtl郎list	List language for align right.	ar,dv,fa,he,ku,ur
5	SMTP configuration		
6	Smtppserver	SMTP server (mail server)	mail.omniscien.com
7	smtppport	SMTP port	25
8	smtppusername	SMTP username	
9	smtpppassword	SMTP password	
10	smtppencryptiontype	SMTP encryption type	None
11	Mail configuration		
12	sendernamedefault	Sender name	Translation Admin
13	Senderemaildefault	Sender email	LSETX@omniscien.com
14	subjectdefault	Mail subject	The translation output
15	bodydefault	Mail body	Dear all, Please find out the translation output in attached file.
16	Setting language in translation page		
17	lang	Language in list box for translation web. If you have new language and want to change text on screen, add new language in here. id : Abbreviation language name : Language name	<lang id="en" name="English">
18	logourl	Path of logo picture	/resources/images/Logo.png
19	pageheading	Heading text	Private and Secure Translation
20	buttontranslate	Text for translate button.	Translate
21	buttonreset	Text for reset button.	Reset
22	buttoncopy	Text for copy button.	Copy
23	cleartooltip	Text for tool tip of clear text box	Clear Text
24	copytooltip	Text for tool tip of copy button.	Copy to Clipbord
25	textheadlabel	Text on input box.	Text
26	textplaceholder	Leading text into input text box.	Enter text here...
27	translationplaceholder	Leading text into output text box.	Text translation...
28	headinglable	Text on file translation area.	Document(s)

29	draglabel1	Text for drag and drop file (line 1)	Drag and Drop Files
30	draglabel2	Text for drag and drop file (line 2)	into this Box
31	draglabel3	Text for drag and drop file (line 3)	or
32	buttonbrowse	Text for browse for file button.	Browse for Files
33	documentoutputformatlabel	Text for output format option.	Output Format
34	sameasdocumentlabel	Text for same as input document.	Same as Document
35	htmllabel	Text for HTML output.	HTML
36	textlabel	Text for text file output.	Text file
37	documentaftertranslationlabel	Text for after translation option.	After Translation
38	downloadlabel	Text for download document.	Download Document
39	emaildocumentlabel	Text for email document as attachment.	Email Document as Attachment
40	selectfile	Text for select file.	Select the engine and click translate button.
41	tblfilename	Text for file name.	Document(s) to translate
42	tblsize	Text for file size.	Size
43	tbllanguagepair	Text for language pair.	Language Pair
44	tblstatus	Text for translation status.	Status
45	statusqueue	Text for queue status.	Queue
46	statusprocessing	Text for processing status.	Processing
47	statuscomplete	Text for complete status.	Complete
48	statuserror	Text for error status.	Error
49	statuscancel	Text for cancel status.	Cancel
50	domain	Text for language domain Id = domain code (Please see domain code in engine model screen)	<domain id="1303001:1303001"> English to French (Patents) </domain>
51	errormaxchar	Error message for validate maximum translation text.	Maximum characters exceeded

6.7. Resetting the System

Once all set up, you will need to reset the system, so that everything is in sync.

To reset the system, please click the Reset System tab, then the **Reset System** button. System will reset all of service in LSETS.

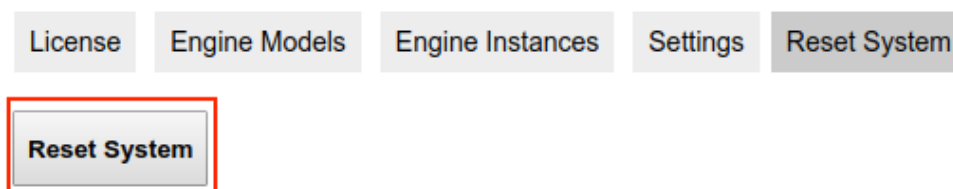


Figure 51: Reset system feature

Once done, a success message will appear.

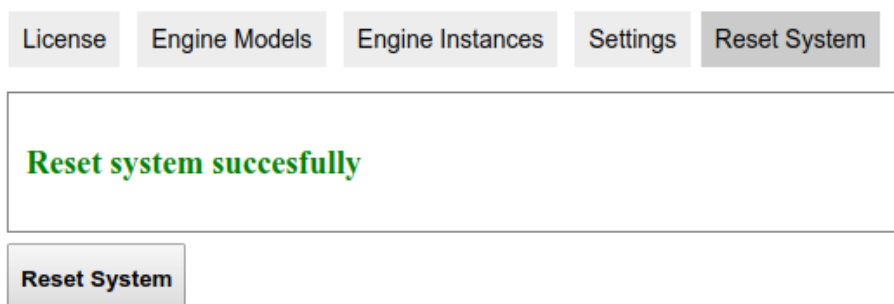


Figure 52: Reset system successful message

Please note - There may be other instances where you need to reset the system. For example, if you run into any problems where in the system where you are unable to translate, get errors or if advised by Omniscien Technologies to do so, then use this tab to reset the system.

6.8. Running a test translation

Once the models have been downloaded and instances set and the system has been reset; run a translation test by selecting the translation page as shown below, by choosing one of the engines and sending a translation through. Changing the IP address as appropriately.

<http://172.17.101.26/lsetx/TranslatePageTemplate.jsp>

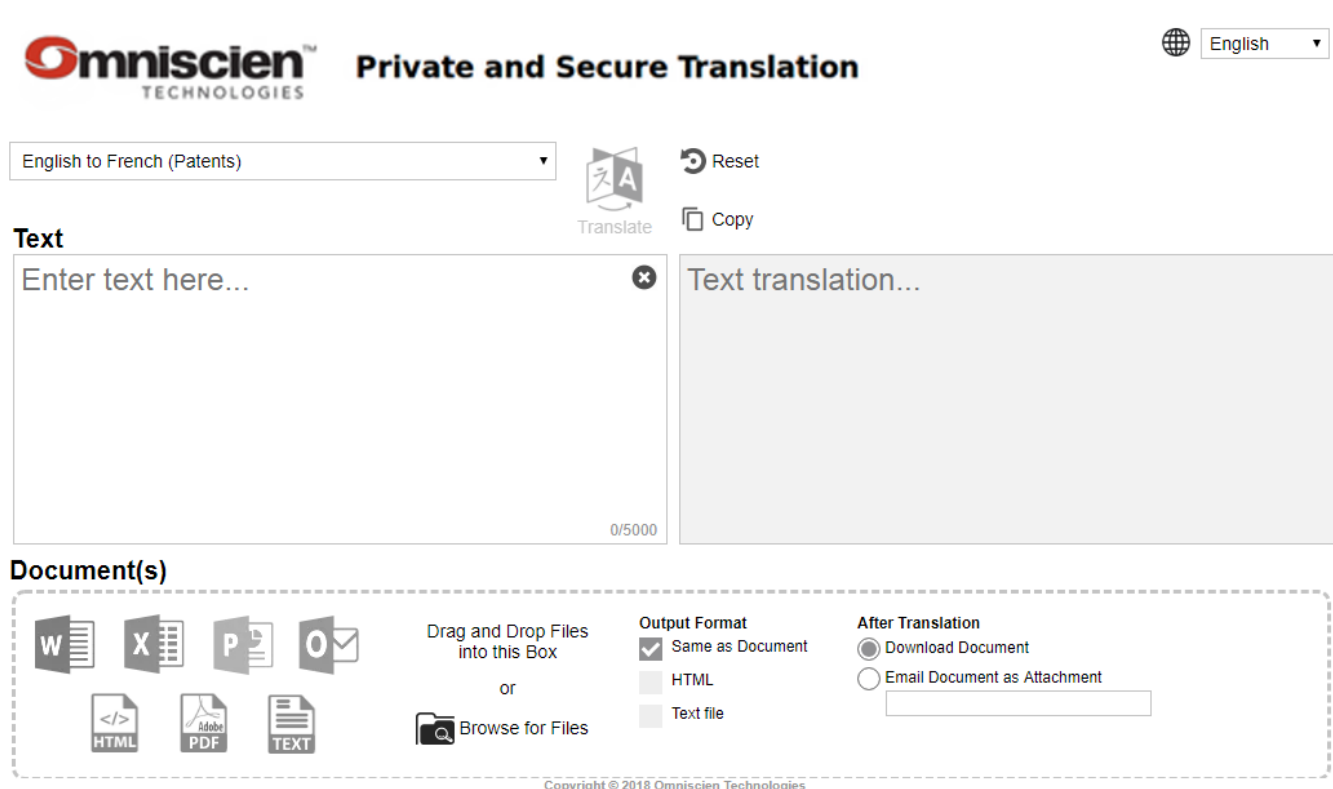


Figure 53: Testing translation screen

7. HOW TO TRANSLATE

The translation page operate via web browser. You can translate text or drop file to translation.

7.1. Translation page

Open the browser to do translation. Changing the IP address as appropriately.

<http://172.17.101.26/lsetx/TranslatePageTemplate.jsp>

The screenshot shows the Omniscien Private and Secure Translation web interface. At the top, there is a logo for Omniscien Technologies and a language selector set to 'English'. Below the header, a dropdown menu shows 'English to French (Patents)'. To the right of this menu are 'Translate' and 'Reset' buttons. Below the dropdown is a 'Text' section with a large text input area containing the placeholder 'Enter text here...' and a 'Copy' button. To the right of the text input is a 'Text translation...' output area. Below the text input is a 'Document(s)' section with icons for Word, Excel, PowerPoint, Outlook, HTML, PDF, and Text files. It includes a 'Drag and Drop Files into this Box' instruction, a 'Browse for Files' button, and an 'Output Format' section with radio buttons for 'Same as Document', 'HTML', and 'Text file'. To the right of the output format is an 'After Translation' section with radio buttons for 'Download Document' and 'Email Document as Attachment', followed by an email address input field. The footer of the interface shows 'Copyright © 2018 Omniscien Technologies'.

Figure 54: Translation page

7.2. Text Translation

Open the browser to do translation. Changing the IP address as appropriately.

<http://172.17.101.26/lsetx/TranslatePageTemplate.jsp>

Step to translate text :

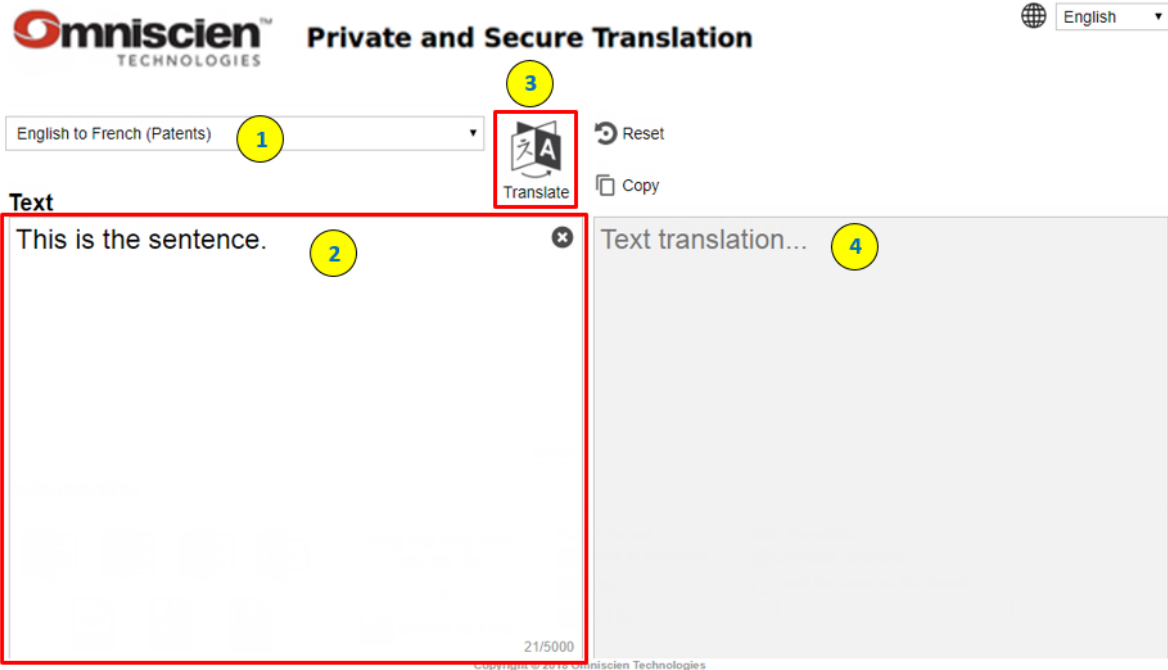





Figure 55: Step to translate text

1. Select language pair in list box.
2. Type text in translation box.
3. Click translation button.
4. The output will display in text translation box.

Another function in translation page.

1. Reset button  **Reset**, click reset button to clear translation text.
2. Copy button  **Copy**, click copy button to copy translated text.
3. Change language  **English**, select language to change text in translation screen.

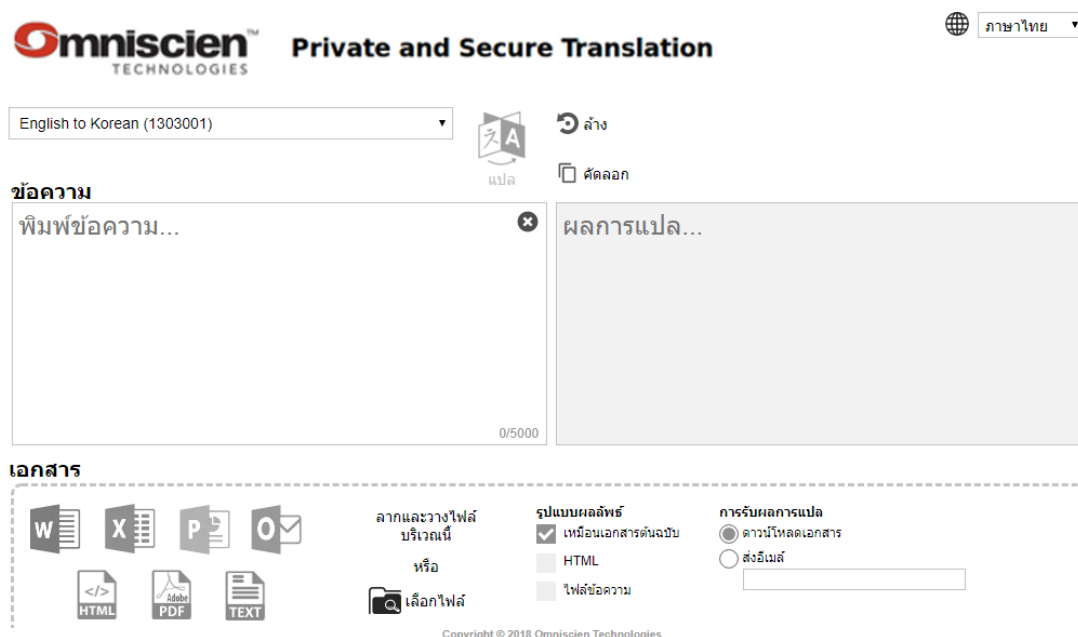


Figure 56: Changed language in translation screen

Limitation : The maximum character for text translation is 5,000 characters. If input text more than 5,000 characters, system will display error message “Maximum characters exceeded 14748/5000” and cannot click translate button.

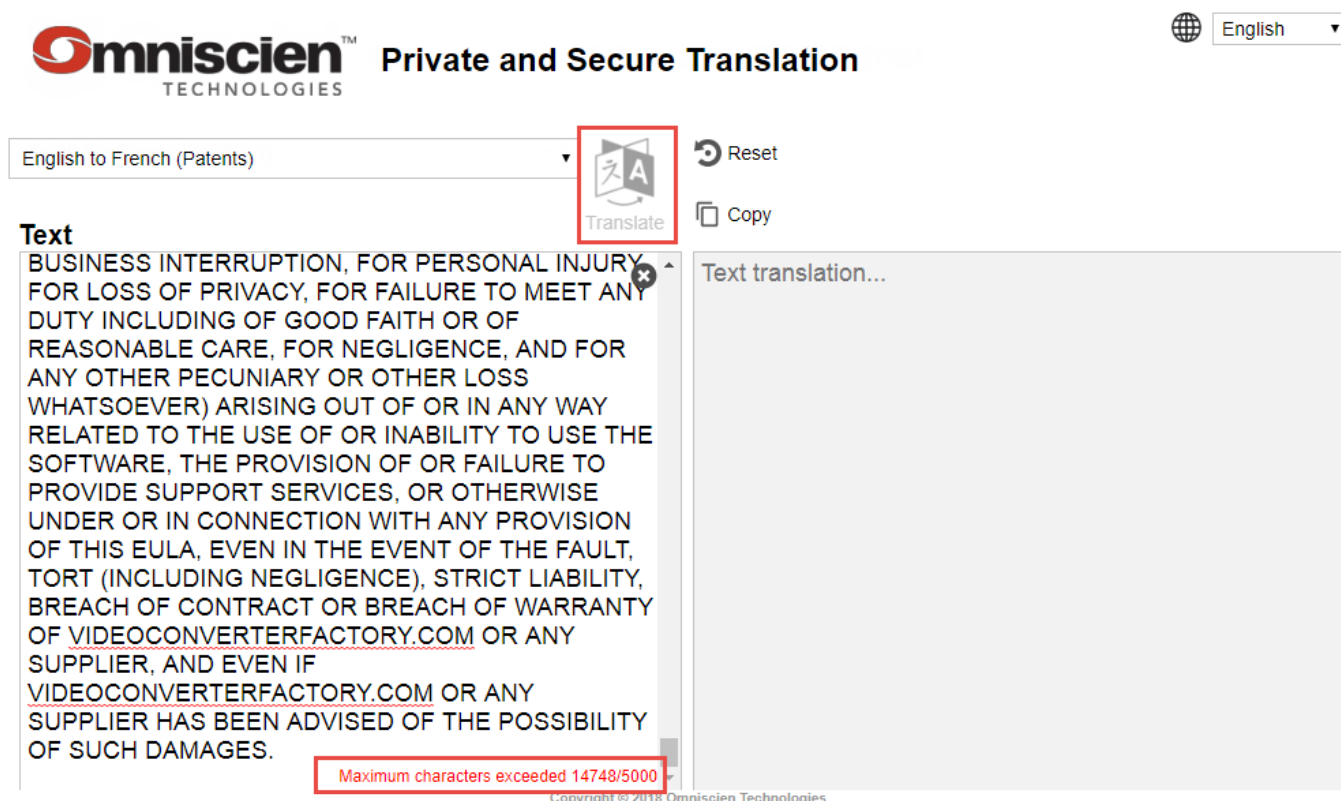


Figure 57: Warning exceeded input text translation

7.3. File Translation

Open the browser to do translation. Changing the IP address as appropriately.

<http://172.17.101.26/lsetx/TranslatePageTemplate.jsp>

File type translation

No.	Input type	Output format		
		Same as input format	HTML file	Text file
1	Pain text	Yes	Yes	Yes
2	Microsoft Words (.doc, .docx)	Yes	Yes	Yes
3	Microsoft Excel (.xls, .xlsx)	Yes	Yes	Yes
4	Microsoft PowerPoint (.ppt, .pptx)	Yes	No	Yes
5	Microsoft Outlook (.msg) (Not support Non-Romanize)	No	Yes	Yes
6	HTML file (.html)	Yes	Yes	Yes
7	Text file (.txt)	Yes	Yes	Yes

Remark : The PDF file input not available now.

Step to translate file :

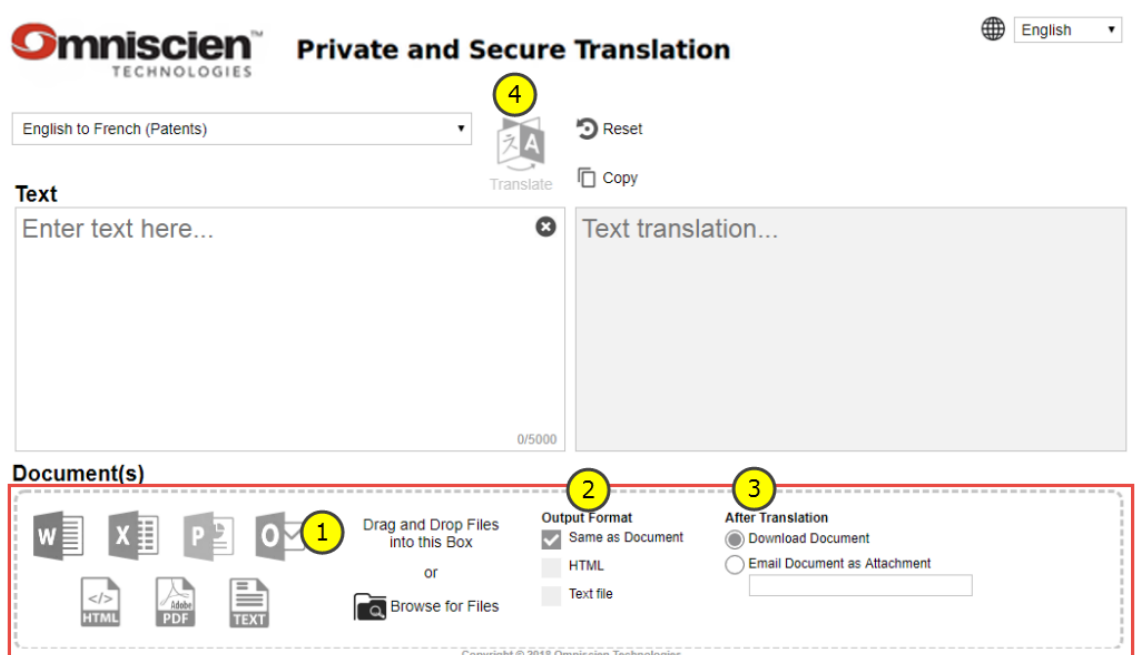


Figure 58: Step to translate file

1. Drag and drop file into red box or click Browse button. System should display document file list and file size in table. You can drop many files in same time.

Document(s) to translate	Size	Select the engine and click translate button.
USER LICENSE AGREEMENT.docx	18KB	

Figure 59: Translate file list

2. Select output format, you can select multiple output format.
3. Select the method for receive output file Download Document or Send output via email. In case select send mail, need to set SMTP configuration in XML setting and input email in textbox.

After Translation

☐ Download Document

☒ Email Document as Attachment





siriwan.sirisinvibul@omniscien.com

Figure 60: After translation : method for receive translation output

4. Click translation button. System should display translation status table about document file name, file size, language pair, after translation (method to get output) and job status.


English to French (Patents) Translate Reset Copy

Document(s)

Drag and Drop Files into this Box

or

 Browse for Files

Output Format
☒ Same as Document
☐ HTML
☐ Text file

After Translation
☒ Download Document
☐ Email Document as Attachment

Document(s) to translate	Size	Language Pair	Output Format	After Translation	Status
USER LICENSE AGREEMENT.docx	18KB	Simplified Chinese to English	Same as Document	Download Document	Processing

Figure 61: Translate text

- Once finish translation, the status should change to "Complete". You can click Complete to download the output.

Document(s) to translate	Size	Language Pair	Output Format	After Translation	Status
USER LICENSE AGREEMENT.docx	18KB	Simplified Chinese to English	Same as Document	Download Document	Complete


Figure 62: Completed translation

For send output via email, you will see the recipient mail in After Translation column. The recipient will receive output file when the status change to complete.

Document(s) to translate	Size	Language Pair	Output Format	After Translation	Status
USER LICENSE AGREEMENT.docx	18KB	English to Simplified Chinese	Same as Document	Email Document as Attachment : siriwan.sirisinvibul@omniscien.com	Processing


Figure 63: Recipient mail

- Clear job history

To clear the completed job, please click button  in each row. You cannot clear job that during processing or queue.

Document(s) to translate	Size	Language Pair	Output Format	After Translation	Status
USER LICENSE AGREEMENT.docx	18KB	Simplified Chinese to English	Same as Document	Download Document	Complete

Figure 64: Clear job

To clear all jobs history, please click clear button  in header table. In case some job not complete, you will cannot click clear button.





Document(s) to translate	Size	Language Pair	Output Format	After Translation	Status	
1 Quality Management _EN.ppt	532KB	English to Korean	Same as Document	Download Document	Complete	
Prototype CIF Android R4_20141226.xlsx	137KB	English to Korean	Same as Document	Download Document	Complete	
USER LICENSE AGREEMENT.docx	18KB	English to Korean	Same as Document	Download Document	Complete	

Figure 65: Clear all jobs history

8. APPENDICES

8.1. Appendix A : Setup java script in a system

The Java script file is belong to customer site. You can implement and apply the java script to handle your data by yourself. The LSETS maintenance will not cover customer java script.

Step to setup java script :

1. Login to a host machine and copy a file to a path below.

```
cp your-file.js /home/dockeruser/lsets/data/lse-data/account/00002/00001/
```

Example:

```
cp default.1303001.js2 /home/dockeruser/lsets/data/lse-data/account/00002/00001/
```

```
cp default.1303001.js7 /home/dockeruser/lsets/data/lse-data/account/00002/00001/
```

2. Run reset system.

Login to web admin screen and please click the Reset System tab, then the **Reset System** button.

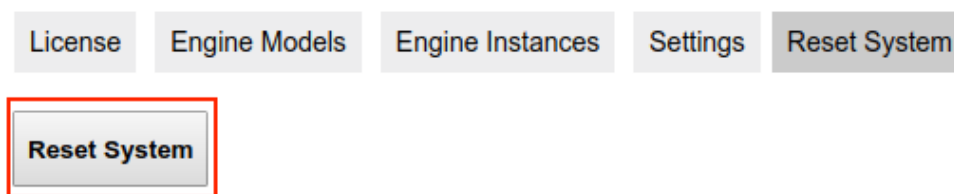


Figure 66: Reset system screen

3. Once done, a success message will display. After success you will can do translation.

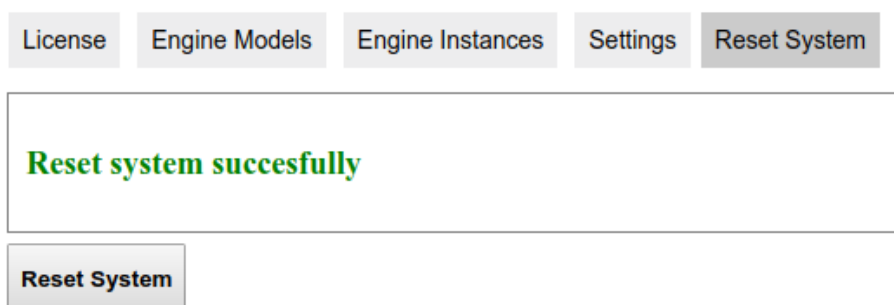


Figure 67: Reset system successful