Prerequisites for Kaltura On-Prem™ Installation Guide

Version: Eagle

Kaltura
open source video

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SECTION 1

Overview of the Kaltura On-Prem™ Edition

Kaltura provides the world's first Open Source Online Video Platform. Over 150,000 media and entertainment companies, enterprises, SMBs, educational institutions, service providers, platform vendors, and system integrators use Kaltura's flexible platform to enhance their websites, web-services, and web-platforms with advanced customized video, photo and audio functionalities. Kaltura's features and products enable you to easily deploy custom work-flows involving video creation, ingestion, publishing, management, syndication, engagement, monetization, and analysis.

The Kaltura On-Prem Edition is Kaltura's full featured self-hosted video platform software installed on your own servers or cloud and supported and maintained by Kaltura.

Kaltura On-Prem Version 5.0

Kaltura On-Prem version 5.0 is based on the Eagle release of the Kaltura online video platform. Version 5.0 provides new features, infrastructure enhancements, and new API services.

Audience

This guide is intended for IT system administrators that intend to prepare their locations for a Kaltura ON-Prem installation.

Preparation for Installing Kaltura On-Prem

Before performing an installation or upgrade procedure, perform the recommended actions.

- Install CentOS 6.2
- Install the Kaltura Prerequisites

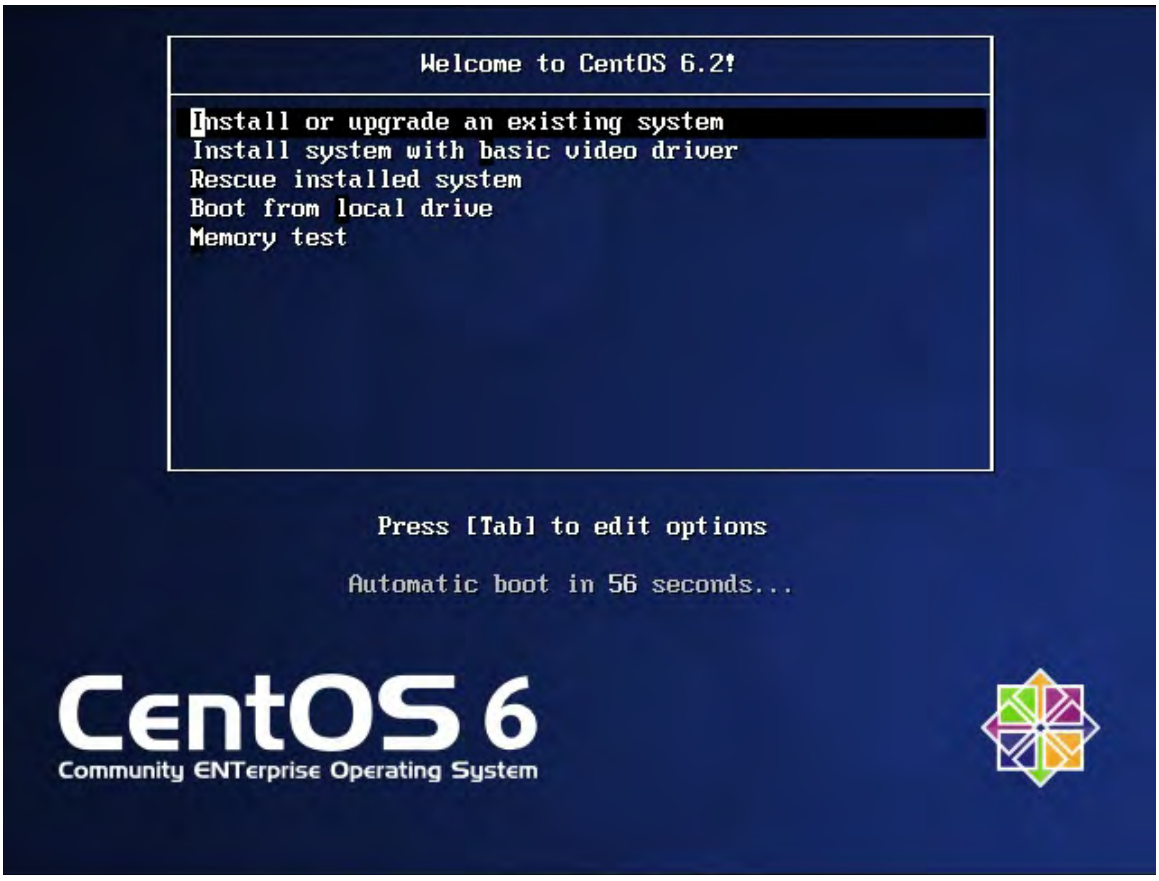
SECTION 2

Installing CentOS 6.2

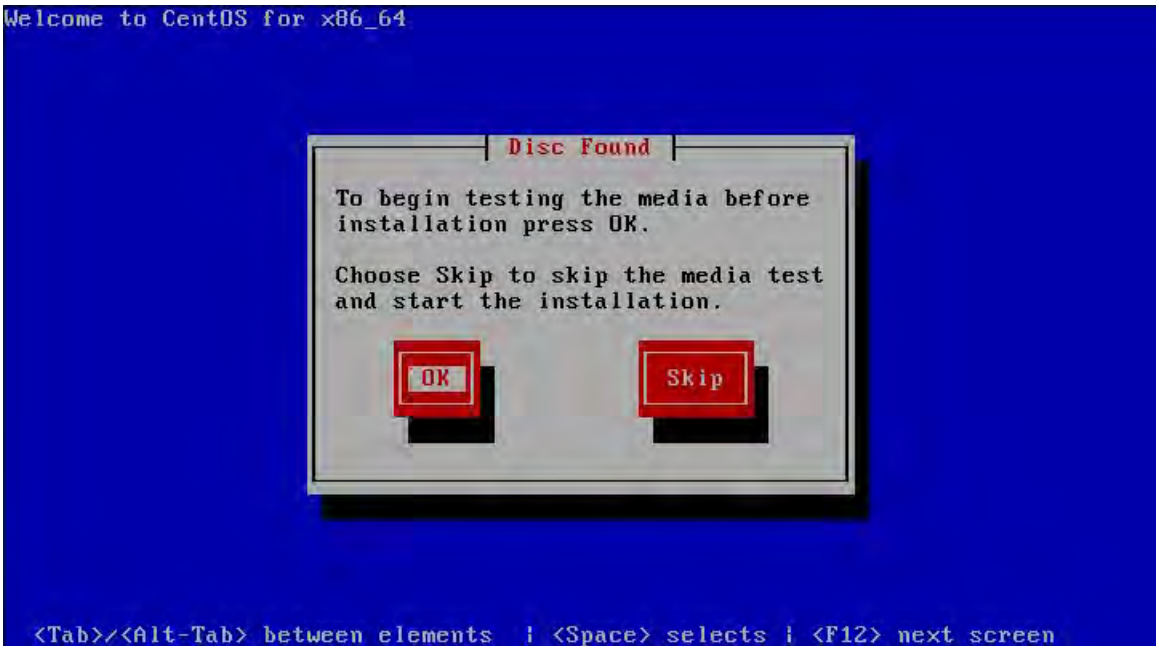
The CentOS has been tested by Kaltura and is supported for installing or upgrading the Kaltura On-Prem edition software. You can use other Linux distributions; however, they are not supported by Kaltura.

To Install CentOS 6.2

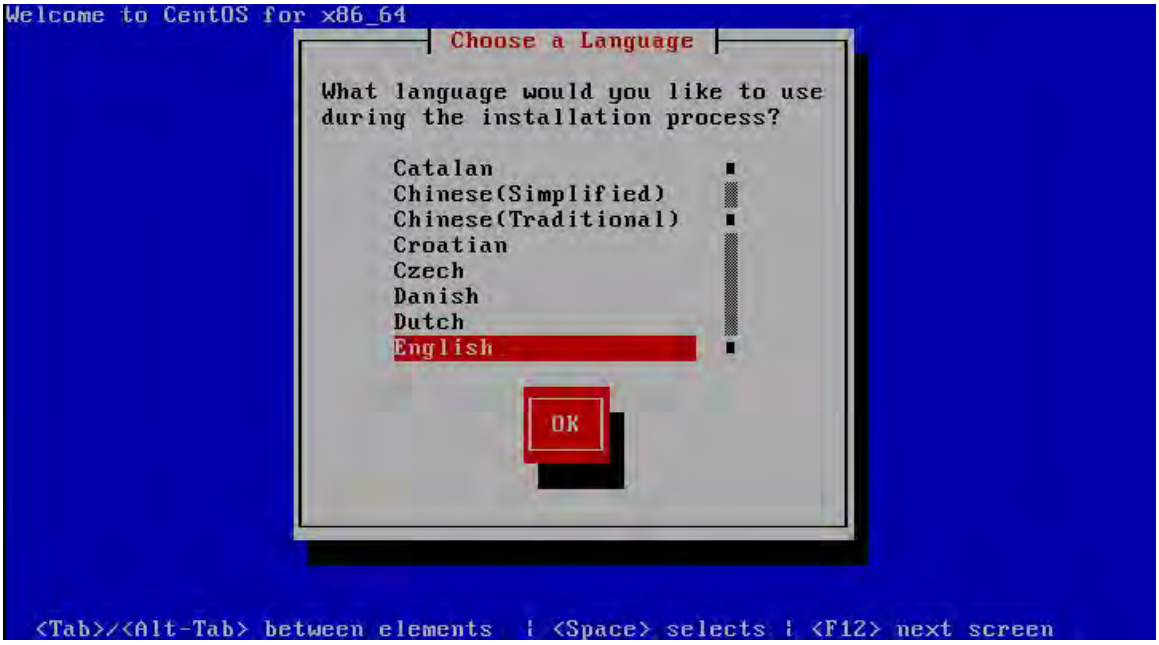
1. Browse to http://www.centos.org/modules/tinycontent/index.php?id=30 and choose the mirror to use according to your location.
2. Download the centos6.2 64bit iso.
   for example - http://mirror.steadfast.net/centos/6.2/isos/x86_64/ CentOS-6.2-x86_64-netinstall.iso
3. Start the installation.



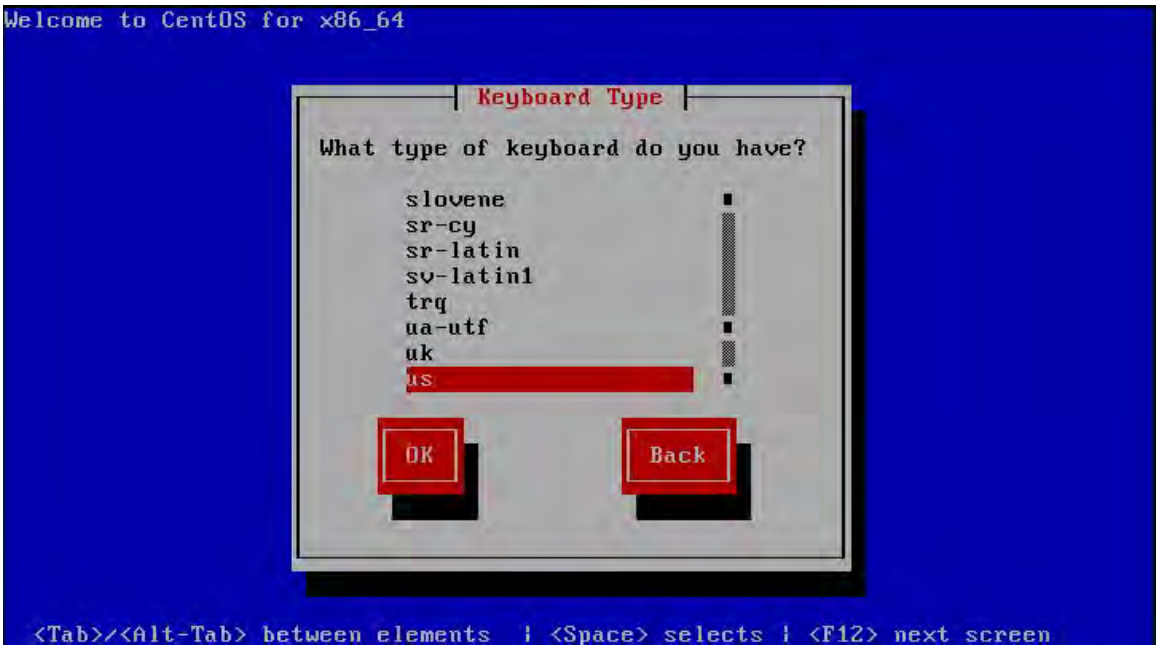
4. Choose “Install or upgrade an existing system”.



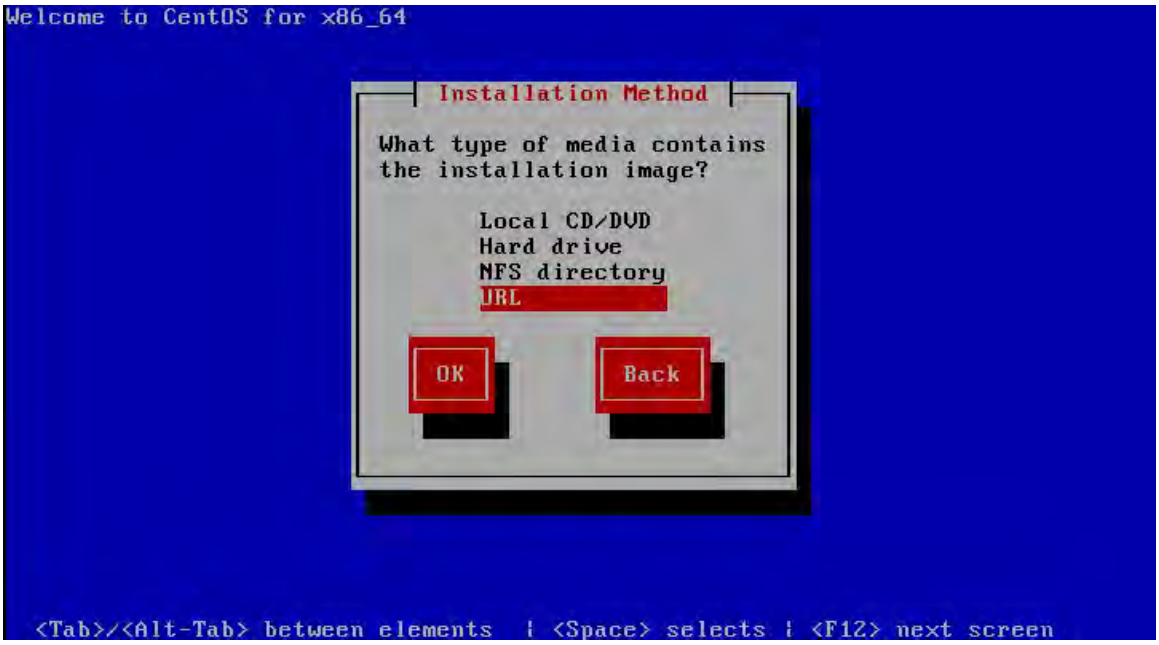
5. Choose to OK to test the media or skip this step.



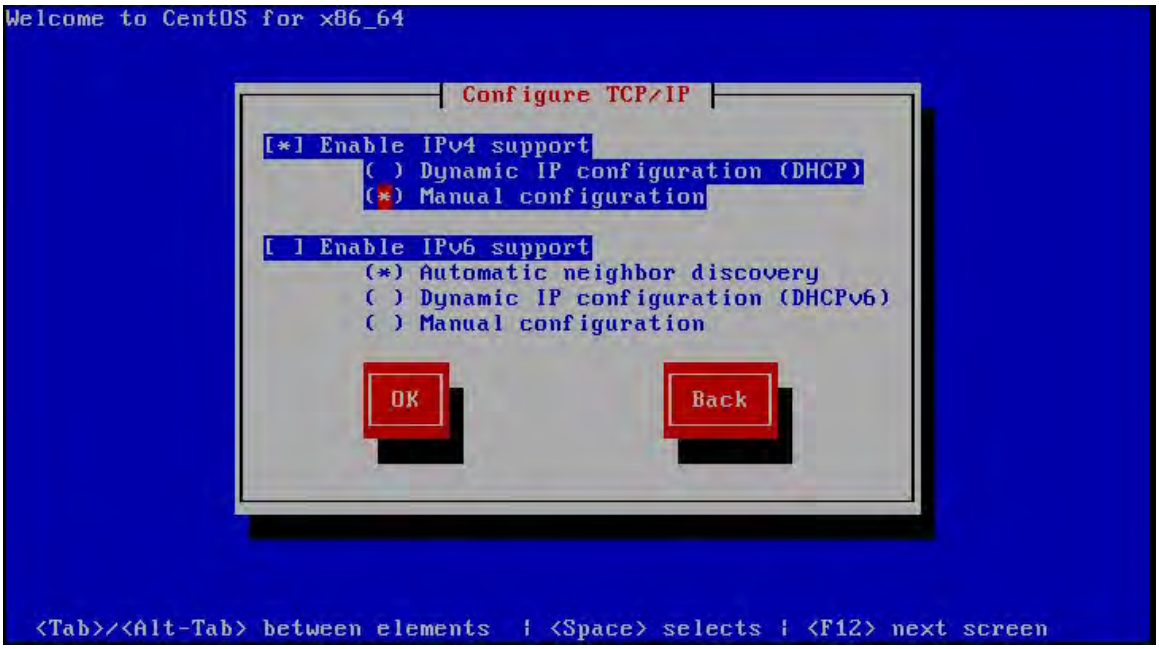
6. Choose your preferred language.



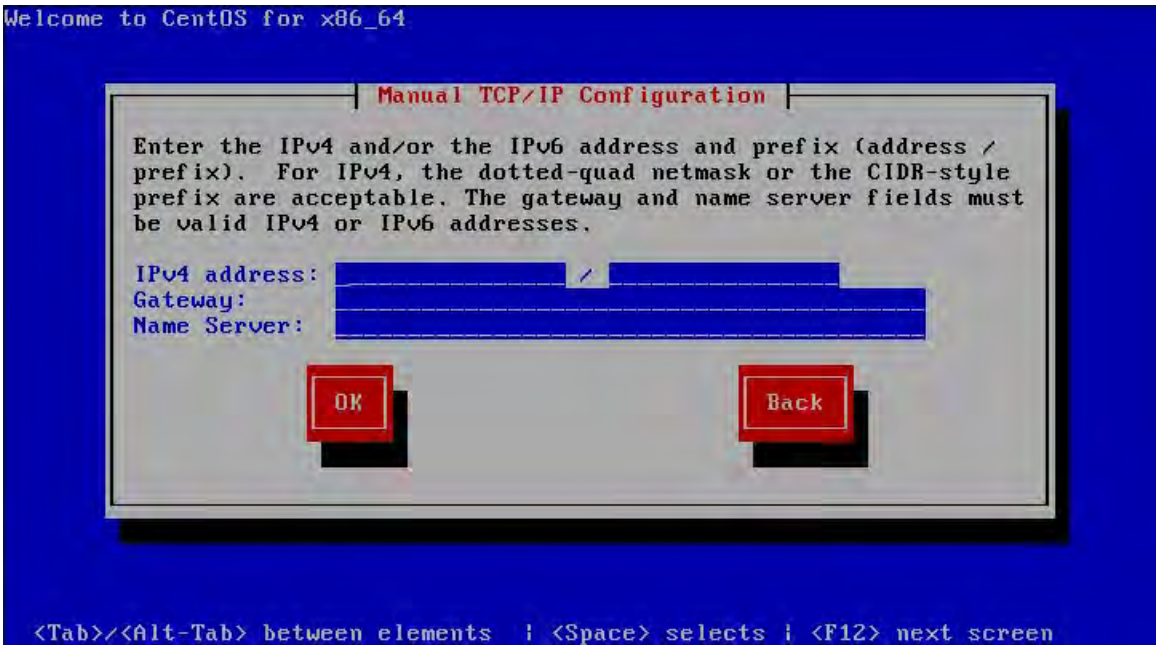
7. Choose your keyboard type.



8. Select “URL” as the installation method.

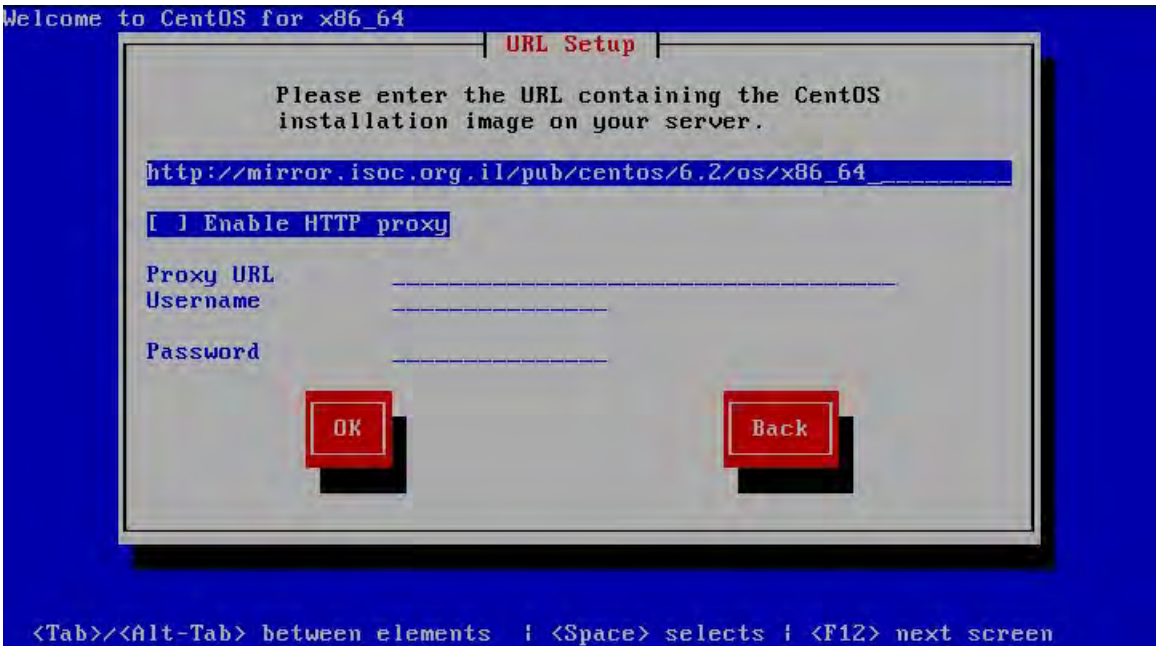


9. Set your TCP/IP settings.



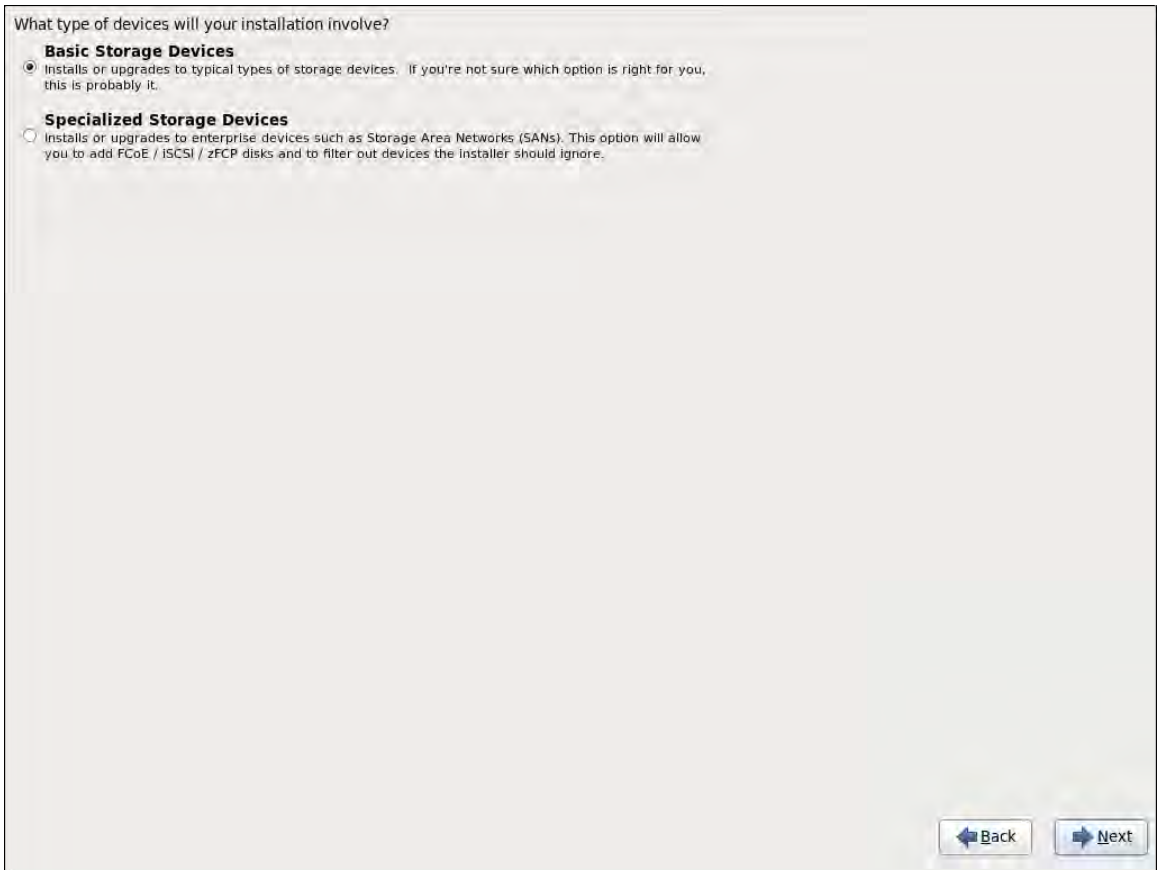
10. If you choose the manual configuration option, fill in the form as follows:

Name	Value
IPv4 address:	ip address / subnet mask
Gateway:	default gateway
Name Server:	DNS server



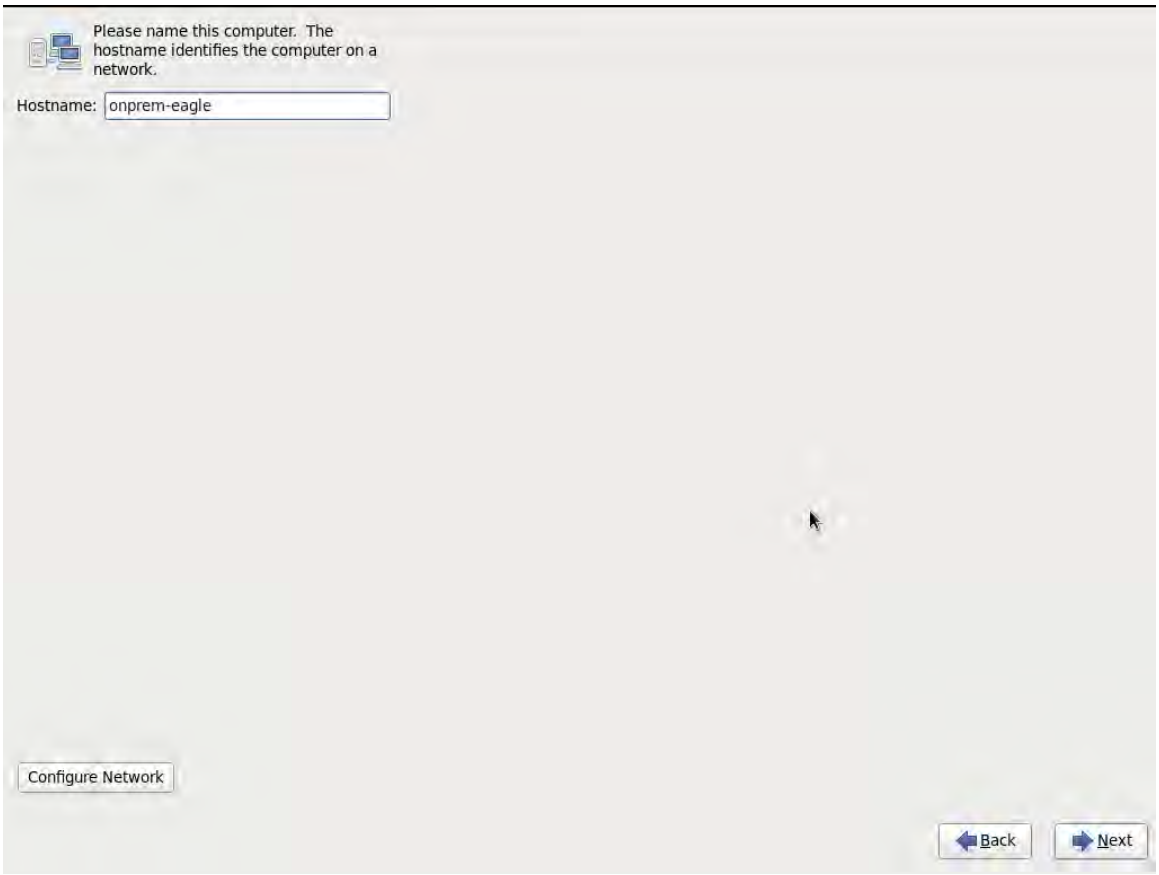
11. Enter the URL setup (for example – http://mirror.isoc.org.il/pub/centos/6.2/os/x86_64

12. Click “Next”.

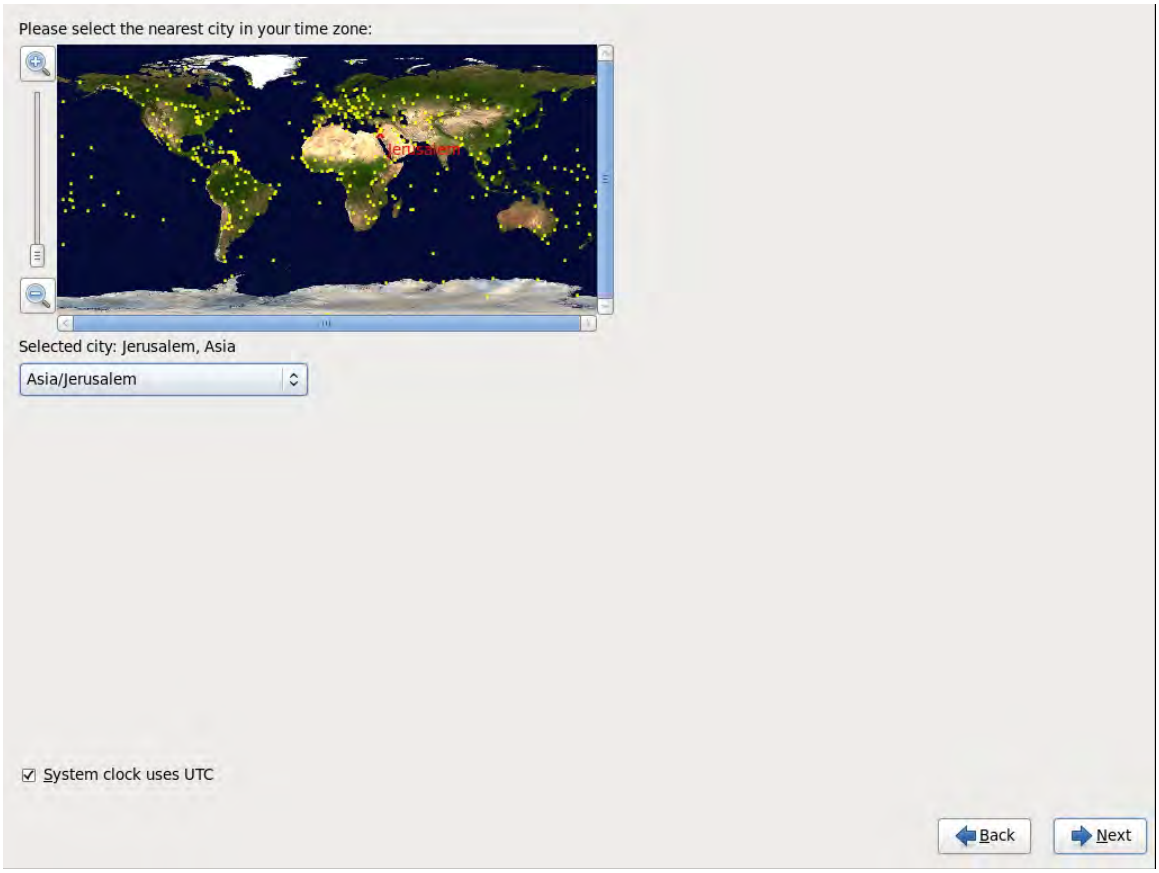


13. Select “Basic Storage Devices”.

14. Choose whether to discard or keep previous data.

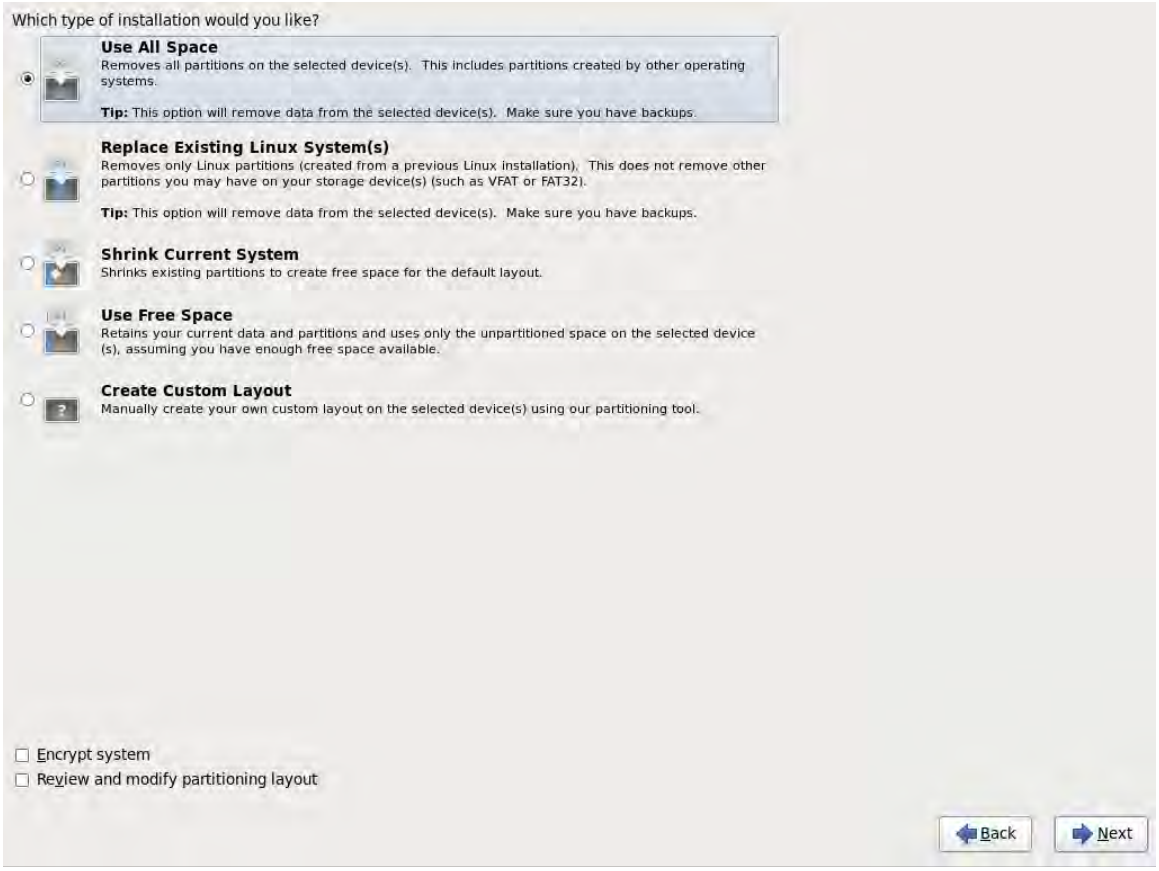


15. Set the computer name.

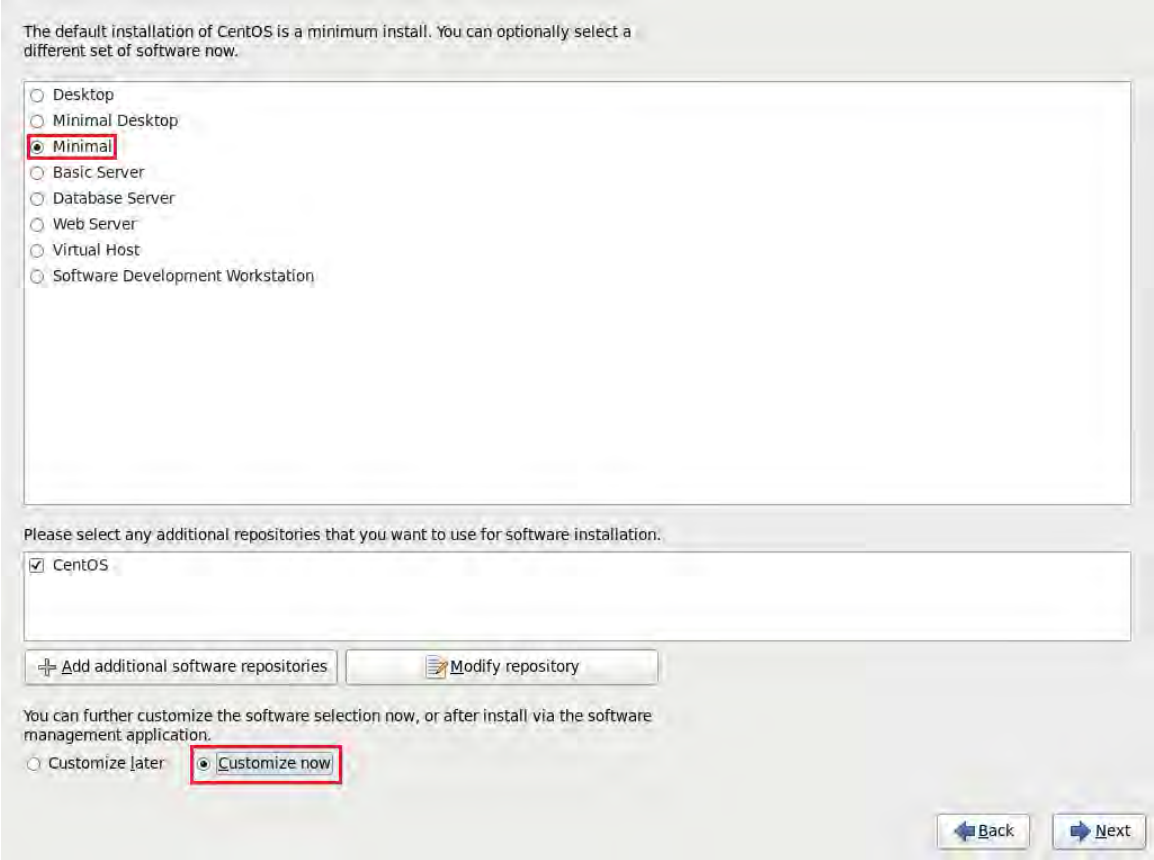


16. Select time zone.

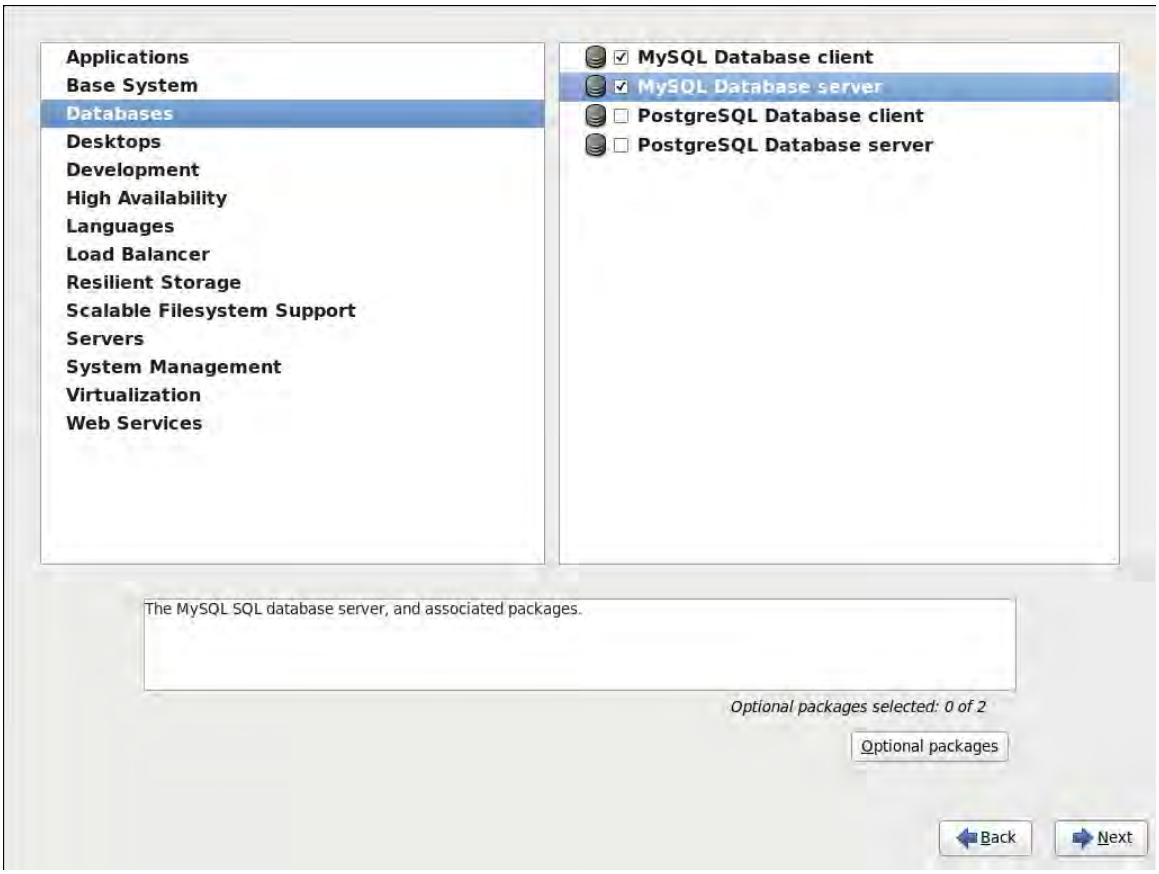
17. Set the root password.



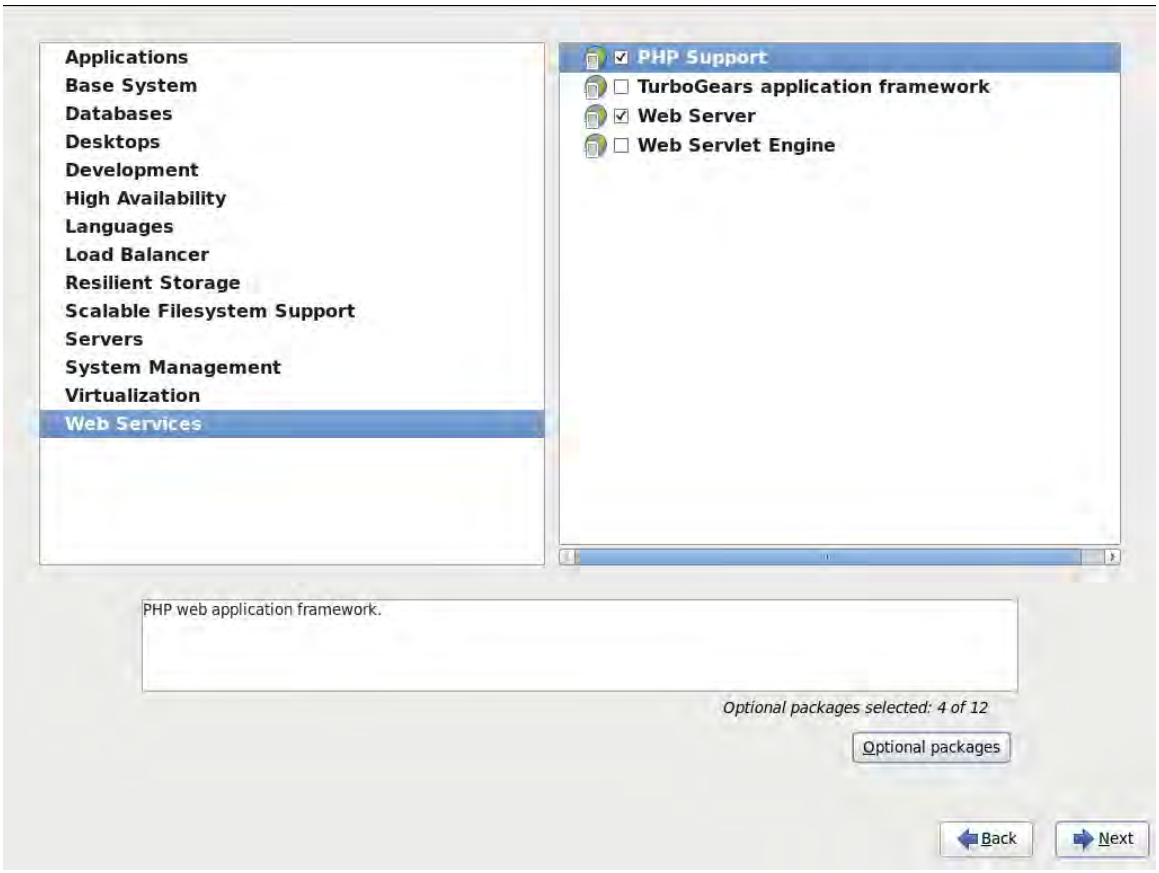
18. Select the installation type.



19. Select the “minimal” set of software and choose “Customize now” to set the required packages.



20. Select “MySQL Database client” and “MySQL Database server”.



21. Select “PHP Support” and “Web Server”.

Prerequisites for Installing Kaltura On-Prem

If you installed CentOS using the wizard described in this section, the following components that are required for installing Kaltura On –Prem were installed on your system. If you used another distribution, be certain to verify that you have the following components installed:

- php-gd-5.3.3-3.el6_2.5.x86_64
- php-pdo-5.3.3-3.el6_2.5.x86_64
- php-common-5.3.3-3.el6_2.5.x86_64
- php-5.3.3-3.el6_2.5.x86_64
- php-pear-1.9.4-4.el6.noarch
- php-xml-5.3.3-3.el6_2.5.x86_64
- php-cli-5.3.3-3.el6_2.5.x86_64
- mysql-libs-5.1.52-1.el6_0.1.x86_64
- mysql-5.1.52-1.el6_0.1.x86_64
- mysql-server-5.1.52-1.el6_0.1.x86_64
- perl-DBD-MySQL-4.013-3.el6.x86_64
- httpd-2.2.15-15.el6.centos.x86_64
- httpd-tools-2.2.15-15.el6.centos.x86_64

SECTION 3

Additional Prerequisites for the Kaltura On-Prem Installation

You will need to install and modify several additional components for the Kaltura On-Prem software. This section contains the following topics:

- Components to Install
- Other Actions to Perform before Installing Kaltura On-Prem
- Installation Instructions for Prerequisite Components

Components to Install

The following components must be installed as prerequisites for the Kaltura On-Prem software.

- memcached
- php apc extension
- php memcache extension
- php soap extension
- php devel extension
- php mbstring extension
- php xml rpc extension
- php mysql extension
- ImageMagick
- glibc.i686
- ncurses-libs.i686
- freetype.x86_64
- zlib.i686
- bzip2-libs.i686
- java
- penthao
- rsync
- xymon

Other Actions to Perform before Installing Kaltura On-Prem

- Edit php.ini
- Edit my.cnf
- Disable SELINUX
- Modify the mod_file_cache_apache_module

- Modify the mod_filter_apache_module
- Start services on boot.

Installation Instructions for Prerequisite Components

To install memcached

1. yum install memcached
2. memcached-1.4.4-3.el6.x86_64
3. chkconfig memcached on

To install the php apc extension

- yum install php-pecl-apc.x86_64

To install the php memcache extension

- yum install php-pecl-memcache.x86_64
  php soap extension

To install php soap extension

1. yum install php-soap
2. php-soap-5.3.3-3.el6_2.5.x86_64

To install php devel extension

1. yum install php-devel
2. php-devel-5.3.3-3.el6_2.5.x86_64

To install php mbstring extension

1. yum install php-mbstring
2. php-mbstring-5.3.3-3.el6_2.5.x86_64

To install php xml rpc extension

1. yum install php-xmlrpc
2. php-xmlrpc-5.3.3-3.el6_2.5.x86_64

To install php mysql extension

1. yum install php-mysql
2. php-mysql-5.3.3-3.el6_2.5.x86_64

To install ImageMagick

1. yum install ImageMagick
2. ImageMagick-6.5.4.7-5.el6.x86_64

To install glibc.i686

1. Yum install glibc.i686
2. glibc-2.12-1.47.el6.i686

To install ncurses-libs.i686

1. yum install ncurses-libs.i686
2. ncurses-libs-5.7-3.20090208.el6.i686

To install freetype.x86_64

1. yum install freetype.x86_64
2. freetype-2.3.11-6.el6_1.8.x86_64

To install zlib.i686

1. yum install zlib.i686
2. zlib-1.2.3-27.el6.i686

To install bzip2-libs.i686

1. yum install bzip2-libs.i686
2. bzip2-libs-1.0.5-7.el6_0.i686

To install java

1. yum install wget
2. mkdir /opt/java
3. cd /opt/java/
4. wget -O jre-6u27-linux-x64.bin "http://javadl.sun.com/webapps/download/AutoDL?BundleId=52242"
5. chmod u+x jre-6u27-linux-x64.bin
6. ./jre-6u27-linux-x64.bin
7. ln -s /opt/java/jre1.6.0_27/bin/java /bin/java

To install penthao

1. mkdir /usr/local/pentaho/
2. cd /usr/local/pentaho/
3. wget http://sourceforge.net/projects/pentaho/files/Data%20Integration/3.2.0-stable/pdi-ce-3.2.0-stable.tar.gz/download
4. tar xvfz pdi-ce-3.2.0-stable.tar.gz -C /usr/local/pentaho
5. mv data-integration pdi

To edit php.ini (/etc/php.ini)

1. set request_order = ”CGP”
2. set date.timezone = America/New_York (or different timezone)

To edit my.cnf

1. Add the following parameters:
2. lower_case_table_names = 1
   thread_stack = 262144
   open_files_limit = 20000
3. character-set-server = utf8
4. /etc/init.d/mysqld restart

To disable SELINUX

1. vi /etc/sysconfig/selinux
2. Set SELINUX=disabled.
3. Reboot your machine.

To modify the mod_file_cache apache module

1. compile mod_file_cache module
2. Load this module from apache conf file.
   a. vi /etc/httpd/conf/httpd.conf
   b. Add the following line:
      LoadModule file_cache_module modules/mod_file_cache.so

To modify the mod_filter apache module

- load the modulr from apache conf file
  a. vi /etc/httpd/conf/httpd.conf
  b. LoadModule filter_module modules/mod_filter.so

To install rsync

- yum install rsync

To install xymon

1. yum install rrdtool-devel
2. yum install pcre-devel
3. On the server
   a. wget http://www.kaltrua.com/content/files/centos6.x86_64/xymon/xymon-4.3.7-1.x86_64.rpm
   b. rpm -ivh xymon-4.3.7-1.x86_64.rpm
   c. vi /etc/httpd/conf/httpd.conf and add the following line: Include /etc/httpd/conf.d/xymon-apache.conf
   d. restart apache /etc/init.d/httpd restart
   e. restart xymon /etc/init.d/xtmon restart
4. On the client
   a. Wget wget http://www.kaltrua.com/content/files/centos6.x86_64/xymon/xymon-client-4.3.7-1.x86_64.rpm
   b. rpm –ivh xymon-client-4.3.7-1.x86_64.rpm
   c. vi /etc/default/xymon-client – set XYMONSERVERS parameter to your xymon server host

name

d. start xymon - /etc/init.d/xymon-client start

To start services on boot

- Enter the following commands:
  - chkconfig httpd on
  - chkconfig mysql on