

# Prerequisites for Kaltura On-Prem™ Installation Guide

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Version: Eagle

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# 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](#)

# 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](http://mirror.steadfast.net/centos/6.2/isos/x86_64/CentOS-6.2-x86_64-netinstall.iso)
3. Start the installation.



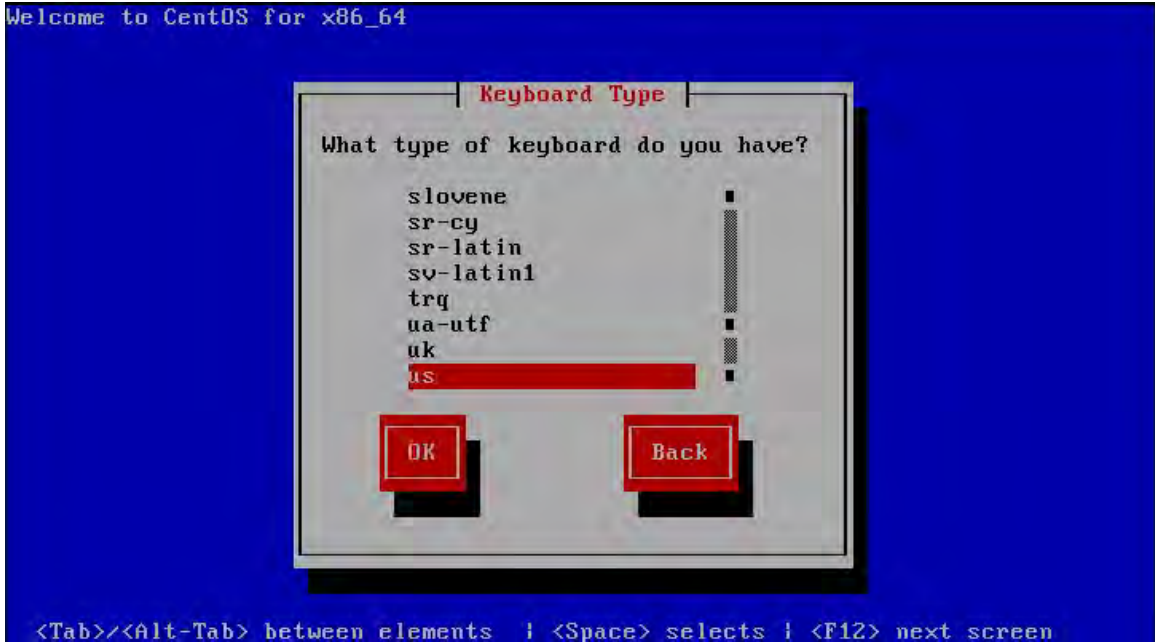
4. Choose "Install or upgrade an existing system".



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



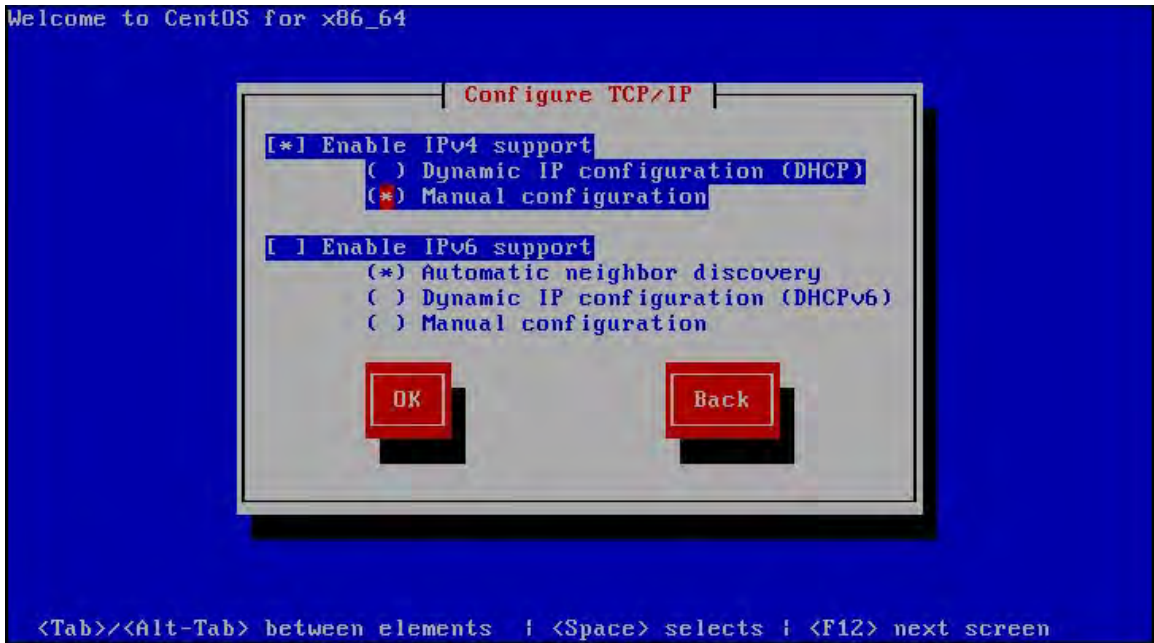
6. Choose your preferred language.



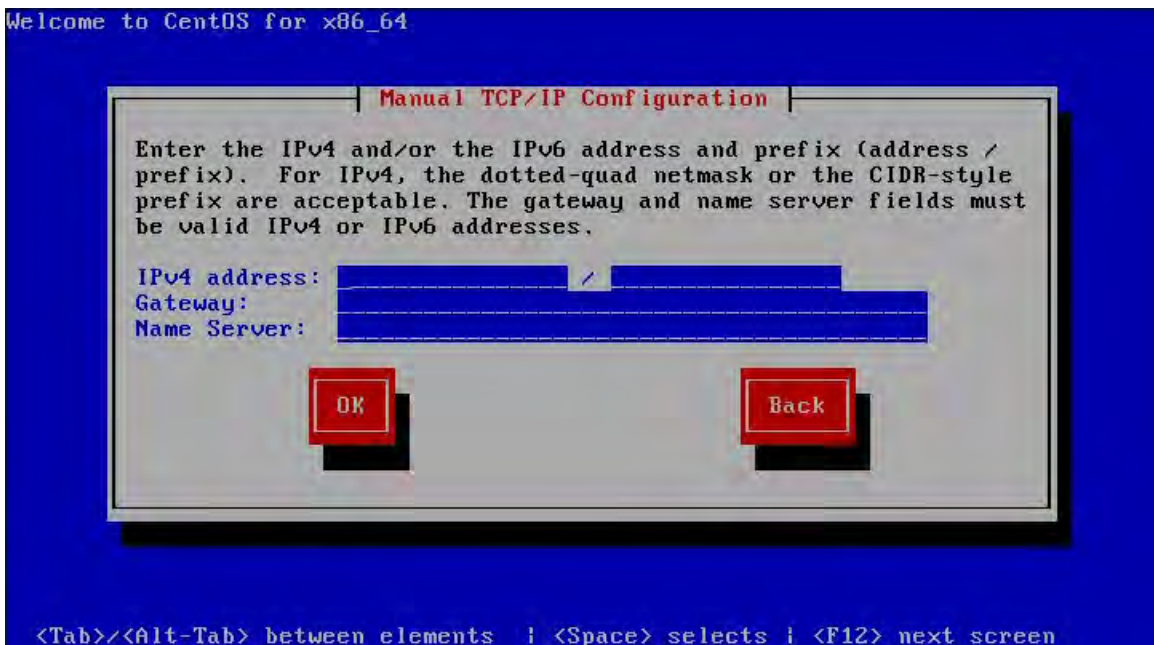
7. Choose your keyboard type.



8. Select "URL" as the installation method.



9. Set your TCP/IP settings.



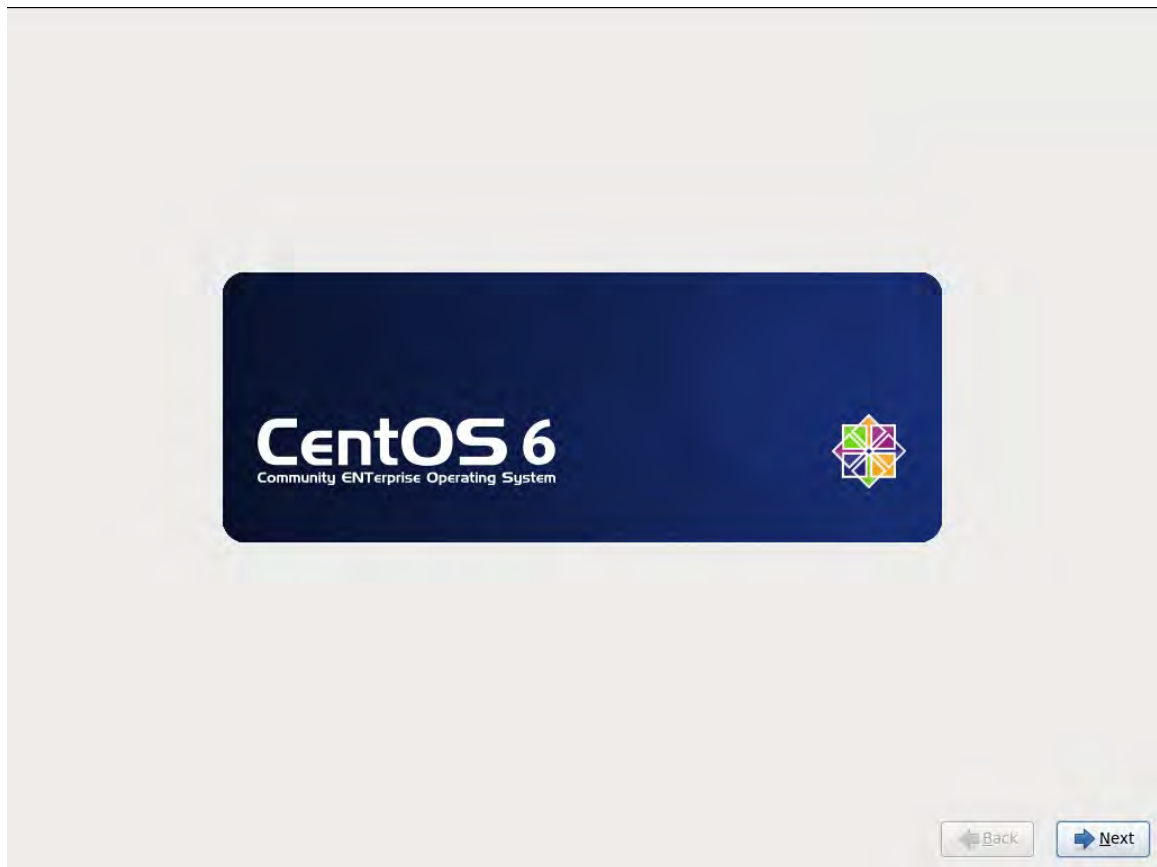
10. If you choose the manual configuration option, fill in the form as follows:

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

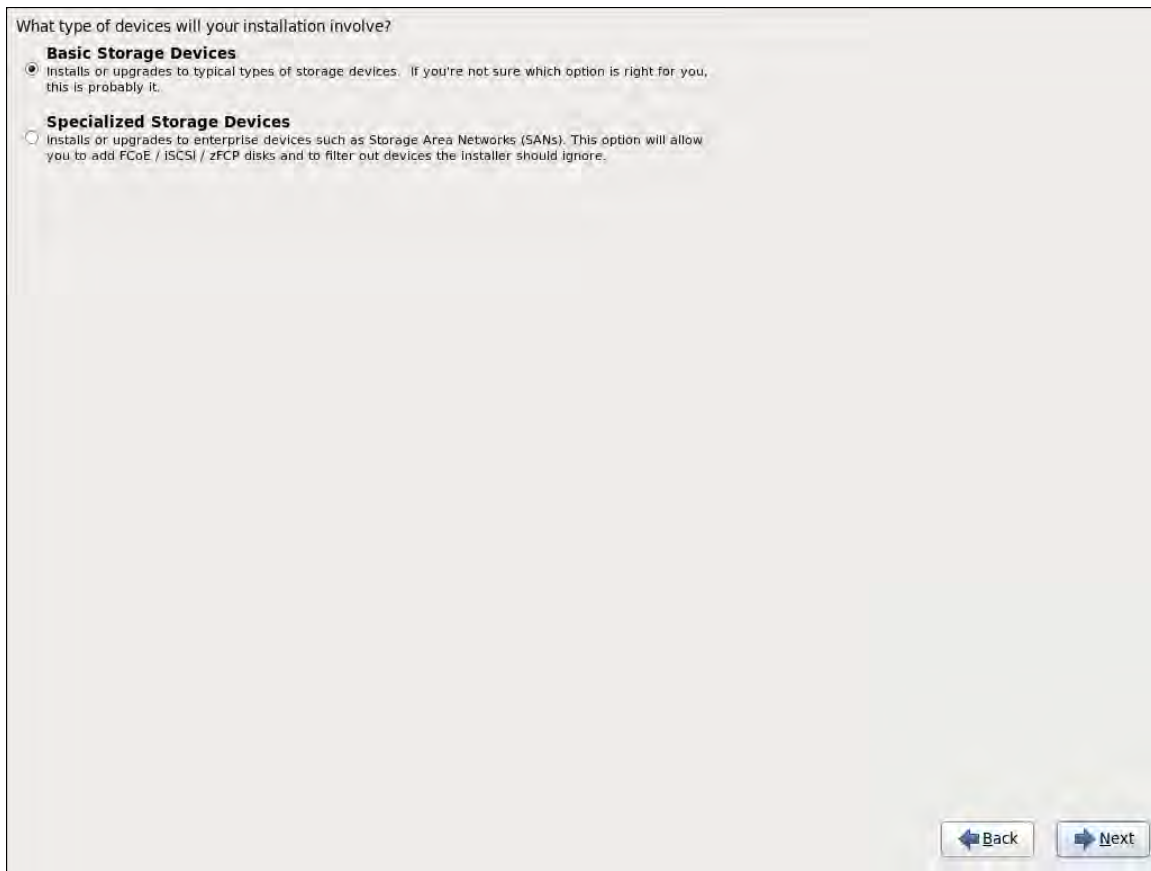




11. Enter the URL setup (for example – [http://mirror.isoc.org.il/pub/centos/6.2/os/x86\\_64](http://mirror.isoc.org.il/pub/centos/6.2/os/x86_64))



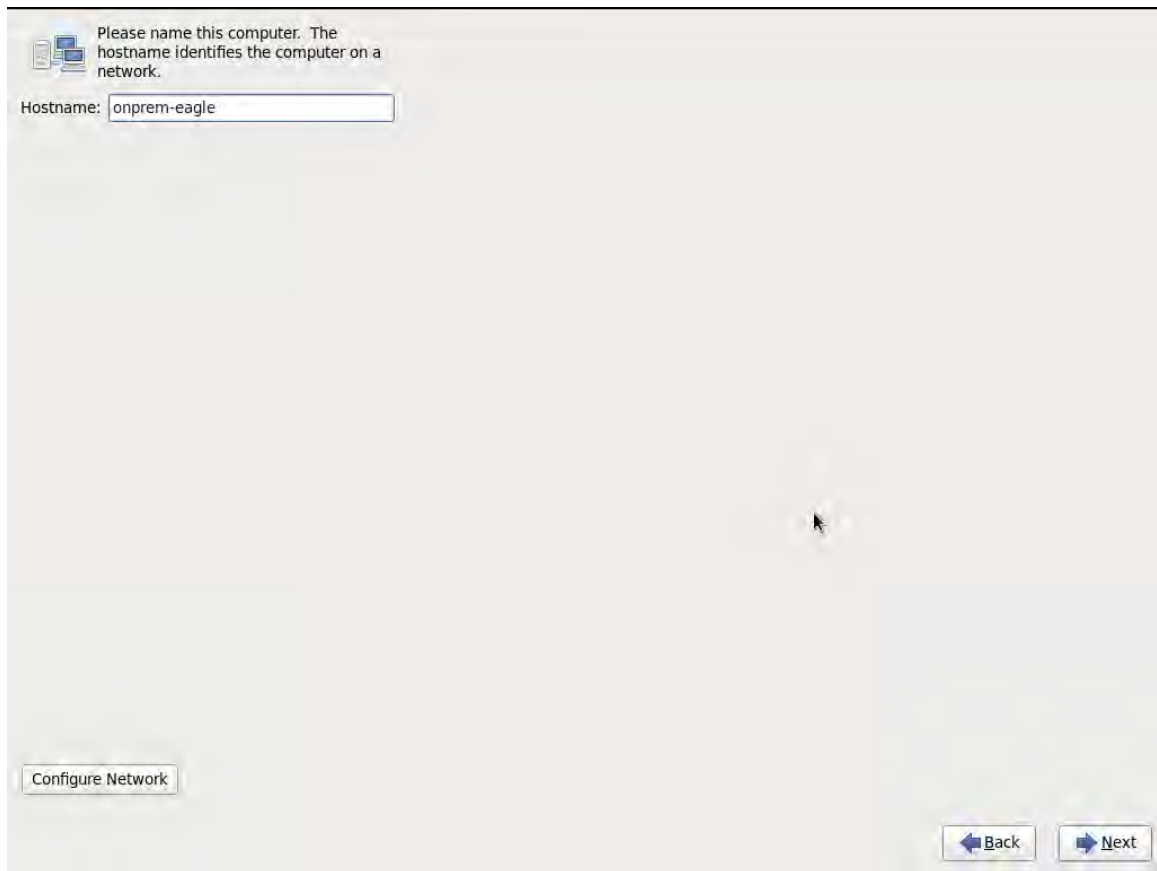
12. Click "Next".



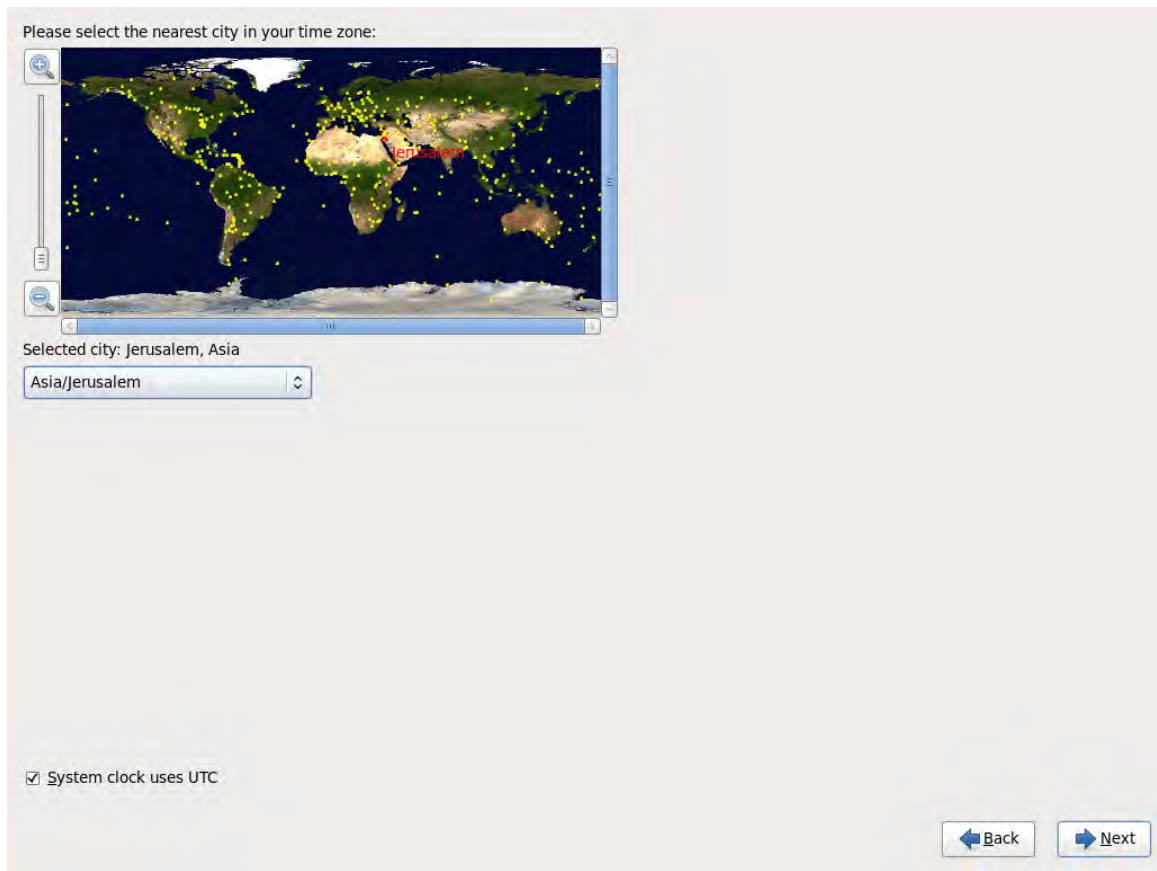
13. Select "Basic Storage Devices".



14. Choose whether to discard or keep previous data.

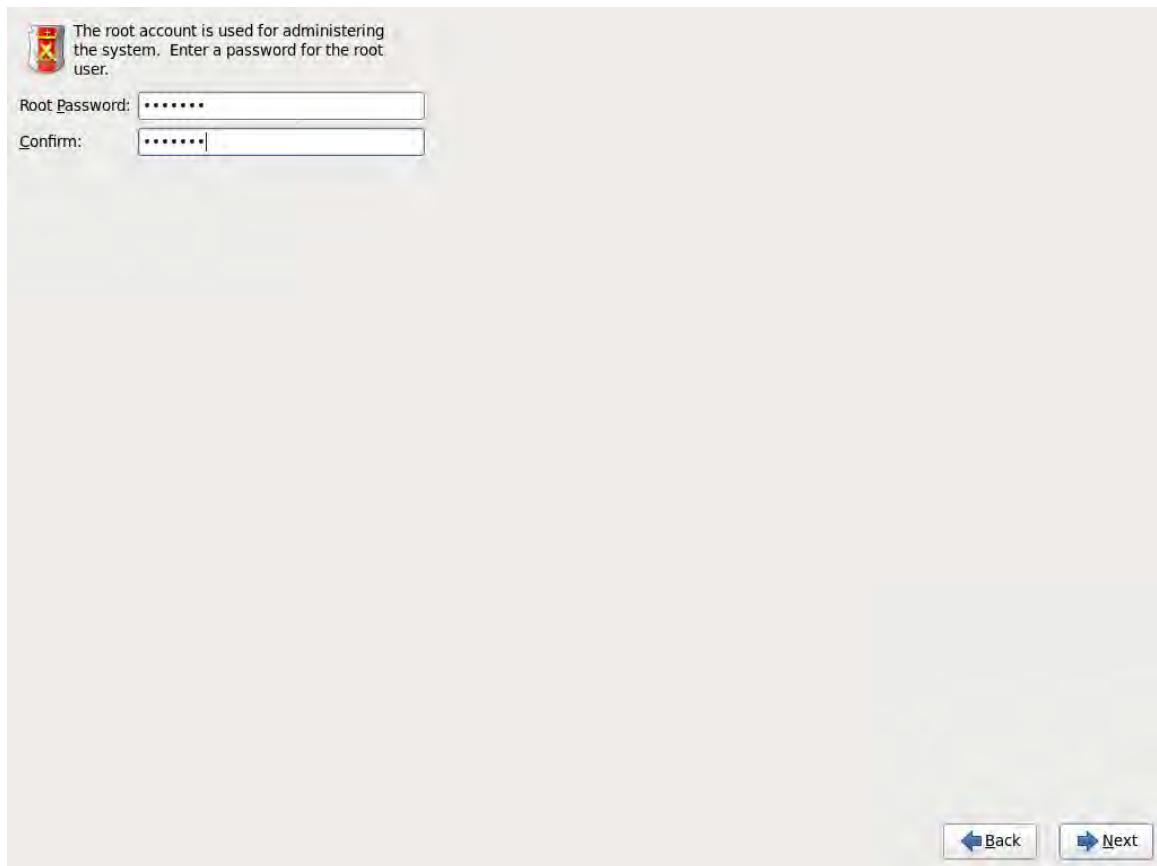


15. Set the computer name.



16. Select time zone.

## Installing CentOS 6.2



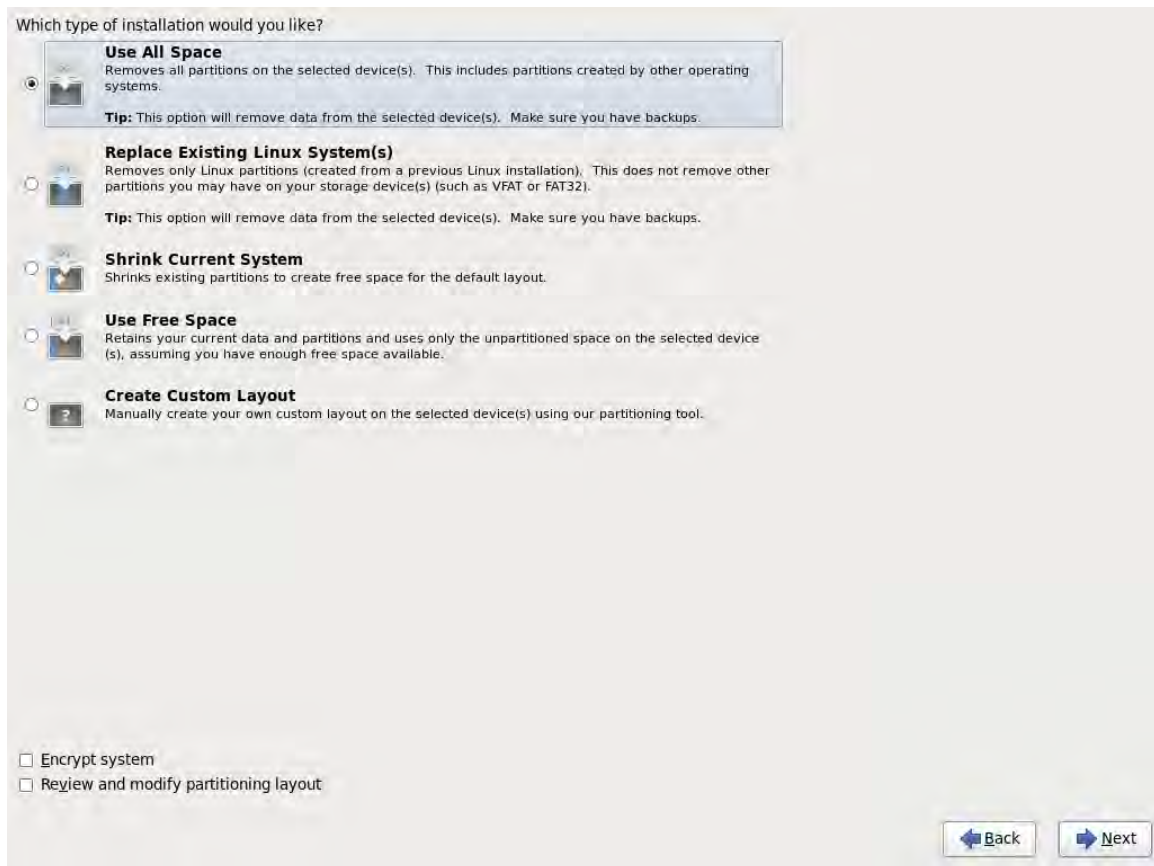
The root account is used for administering the system. Enter a password for the root user.

Root Password:

Confirm:

[← Back](#) [Next →](#)

17. Set the root password.



18. Select the installation type.

The default installation of CentOS is a minimum install. You can optionally select a different set of software now.

Desktop  
 Minimal Desktop  
 Minimal  
 Basic Server  
 Database Server  
 Web Server  
 Virtual Host  
 Software Development Workstation

Please select any additional repositories that you want to use for software installation.

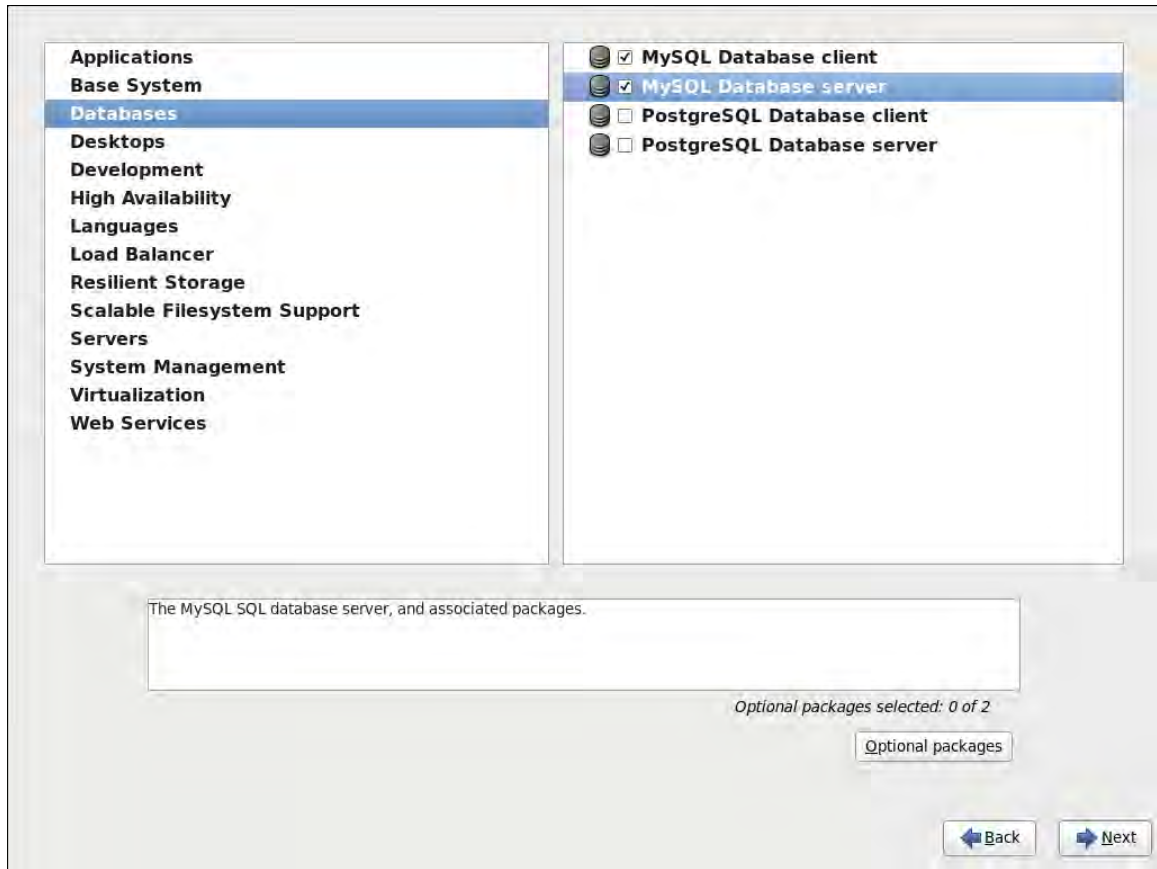
CentOS

You can further customize the software selection now, or after install via the software management application.

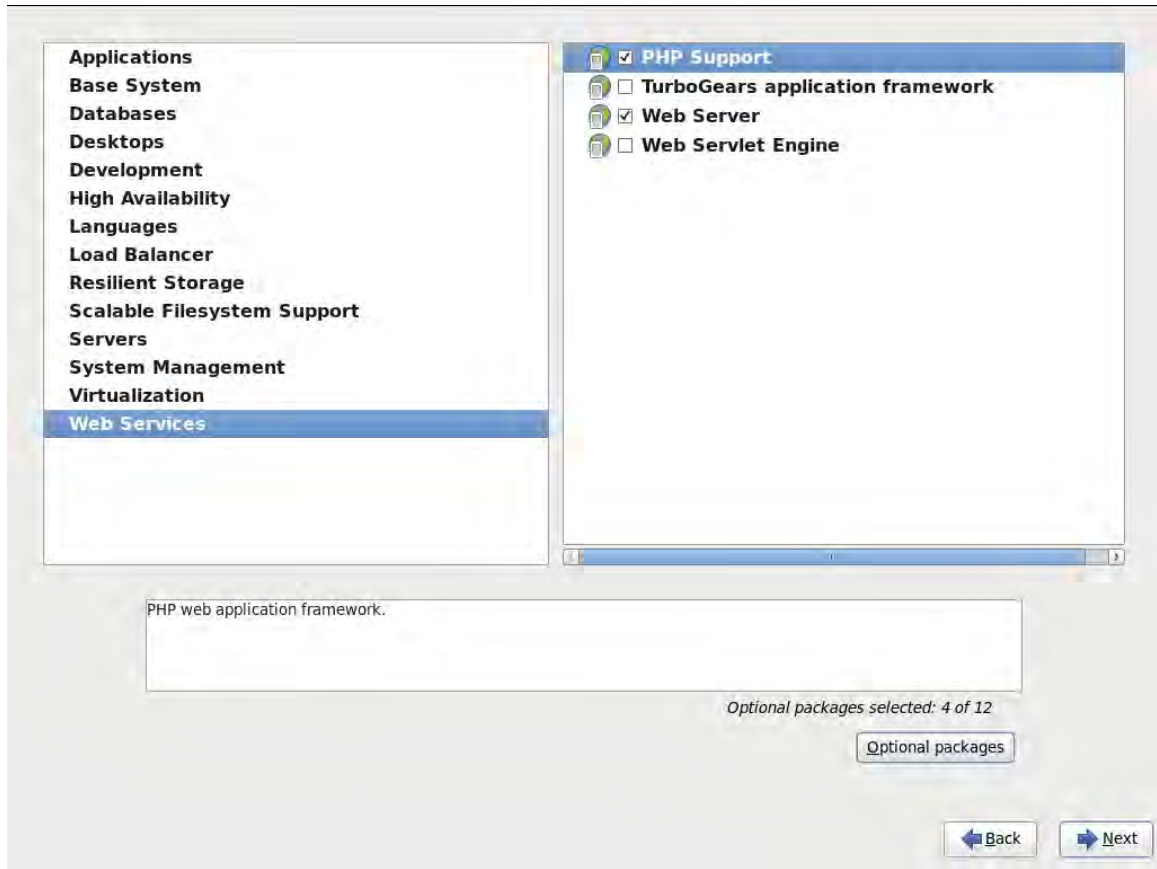
Customize later  Customize now

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

# 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