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TIKILIVE SERVER INSTALL REQUIREMENTS

HARDWARE REQUIREMENTS:

OS Platform	Linux (CentOS 5.x) x64_86	Works on other distros too but the folder or binary executables structure may differ)
CPU Requirements	Intel/AMD quad > 2.3 Ghz	Minimum required. The more computing power the better
RAM Requirements	8 GB DDR2/3 minimum	The more RAM server has the better the app will work
Disk Space Requirements	2x500 GB SATA drives	Minimum recommended. More HDD space available, more storage

SOFTWARE & HARDWARE REQUIREMENTS FOR OPTIONAL MODULES:

Wowza Media Server 3	HTML5 LIVE + VOD	1 dedicated server running Wowza 3.5 instance

DOMAIN IP AND SERVER CONFIG SETTINGS:

Domain	Valid .TLD domain required	The domain also requires wildcards enabled in the DNS zone
IP Information	Public, static IPv4 IP required	At least 1 public, static IP is required
DNS Services		DNS has to be configured and propagated prior TikiLIVE install
Required Ports		80, 443, 21, 1935, 1111, 943, 4502:4532, 8080, 8081, 8083, 8086

RECOMMENDED BACKUP AND ACCESS PROCEDURES:

Backup Strategy	Offsite backup / external attached storage backup	It can be done on a remote server over LAN or an external drive attached
Backup Scheduling	Off peak hours	It must be done during off peak hours to avoid service degradation
Remote Access Enabled	Optional	Used only for external server support

REQUIRED SOFTWARE MODULES, 3rd PARTY LICENSES AND SETTINGS

Apache version	Apache v 2.2.x	It must have the following modules present: • mod_ssl • mod_rewrite • cgi • suexec • suphp
PHP version	PHP 5.2.x and PHP 5.3.x	Compiled with the following modules: • apc • curl • filter • ftp • gd • json • mbstring • mcrypt • memcache • memcached • mhash • mysql • openssl • PDO module with PDO_MYSQL driver • pdo_mysql • session • soap • sockets • SPL • Uploadprogress • Xml • Xmlreader • Xmlrpc • Xmlwriter • Zip • Zlib • SimpleXML • Reflection • Posix • Date • Dom • Calendar • Bcmath • and with the extension (Ioncube PHP Loader) php.ini values: • memory_limit = 64M • magic_quotes_gpc = Off • post_max_size = 128M • upload_max_filesize = 128M • safe_mode = Off • register_globals=off
MySQL Version	mysql v. 5.0.x	
FMS v. 5.0.x	Adobe Flash Media Interactive Server	http://www.adobe.com/products/adobe-media-server-professional.html
cPanel + WHM (optional)	http://www.cpanel.net	cPanel can help in compiling the Apache + PHP with the required modules making it easier to setup.
Mono	http://www.monoproject.com/	For CentOS we use this: http://origin-download.mono-project.com/archive/2.6.7/download/RHEL_5/x86_64/ -> or compile from source Only these packages: • monoaddon-libgdiplus0-2.6.7-6.1.x86_64.rpm • mono-addondata-2.6.7-6.1.x86_64.rpm • mono-addon-core-2.6.7-6.1.x86_64.rpm
ffmpeg	http://www.ffmpeg.org/	Recommended version: git-8759ce6 or higher
ip2location	http://www.ip2location.com	DB4
ionCube Loader	http://www.ioncube.com/loaders.php	Version for Linux (x86-64)
Node.js	http://nodejs.org/download/	Current version

INSTALLATION STEPS

Considering all the required software is installed and configured a typical TikiLIVE install looks like this:

1. Setup the location where the website will be hosted (either under a user's home with apache vhost or in a custom location)

2. Setup databases and database users

3. Modify the FMS conf files (*defined below)

4. Deploy website

5. Setup website config files

6. Setup cron jobs

7. Install mono (*defined below)

8. Start Silverlight storage (*defined below)

3. Modify the FMS conf files

In FMS config files there are some paths which have to be modified to match the paths where the content of the website is located.

The FMS config files which have to be modified are:

a. fms.ini
b. Server.xml
c. Users.xml
d. Vhost.xml

fms.ini
(SERVER.HTTPD_ENABLED = false, VHOST.APPSDIR = /path/to/fms/apps, USERS.HTTPCOMMAND_ALLOW = true)

Users.xml
(Replace <Allow>ping</Allow> with <Allow>All</Allow>)

We usually deploy the fms folder in user's home where the vhost is installed.
Example: /home/example/fms

If the FMS is installed using the install script from the kit make sure to make the fms folder from /home/example/fms chmod 777 recursive.

Inside the FMS folder will be these folders (applications, encoded_streams, recorded_streams, monster_encoded_all)

In **Vhost.xml** at line <Streams></Streams> make it look like:
<Streams>recorded_streams;/home/example/fms/recorded_streams</Streams>
<Streams>encoded_streams;/home/example/fms/encoded_streams</Streams>

FMS requires these libs to be present on the server (libcap nspr libstdc++).

7. Install mono

After mono is installed a symlink is created from /opt/novell/mono/bin/mono to /usr/bin/mono.

8. Start silverlight storage

Silverlight storage contains 2 folders (WSPolicy and WSStorage). WSPolicy must be executed as root while WSStorage must be executed as the user under which the website is deployed.

These 2 folders must reside in a folder called monster which will reside in user's home under which the website is deployed (Example: /home/example/monster).

ADDITIONAL NOTES

If firewall is present on server it must be configured to allow external connections on following ports (80, 443, 21, 1935, 1111, 943, 4502:4532, 8080, 8081, 8083, 8086).

Any other missing dependency for the required packages has to be installed by the one in charge of the server administration.

For details on how to Install TikiLIVE zip file click here.