

# Upgrading Avalon 3.3 to Avalon 4.0

## Preparing for the Upgrade

Before doing anything to prepare for the upgrade, backup your Avalon 3.3 installation.

### config/avalon.yml

In `avalon.yml`, under `streaming`, change `"url_handler:"` to `"server:"`.

Add under `streaming`: `"content_path:"` and then the path to your rtmp stream folder.

It should look something like this:

```
streaming:
  server: :generic
  content_path: /var/avalon/rtmp_streams
  stream_token_ttl: 20
  rtmp_base: rtmp://localhost/avalon
  http_base: http://localhost/streams
```

See [What's New in Avalon 4.0](#) for more details.

## Instructions

The following instructions will work for any Avalon 3.3 installation that used Puppet as its source. This includes the [portable VM Image Installation](#), the [Vagrant Virtual Machine Installation](#), and the [Manual Installation of Avalon Using Puppet](#).

Upgrading is fairly simple, and must be run as the root user from a bash prompt on the Avalon system. The process for this depends on which kind of installation you have.

Portable VM image:

- Open a terminal window from within the VM console, and type `su root` to become the root user. This will require the root password you provided the first time the system was booted.
- Vagrant virtual machine:  
From within the original installer directory (from step 4 of the [Vagrant Virtual Machine Image Installation Instructions](#)), type `vagrant ssh` to log in as the vagrant user, then type `sudo -i` to become the root user.
- Manual Puppet installed machine:  
Log in and become root as you did in steps 1 and 2 of the [Manual Installation of Avalon Using Puppet](#) instructions.

Once you have a root prompt, proceed with the upgrade as follows:

## Upgrade Avalon

```
# 1. if starting from Portable VM image, download the installer package, unpack, and link it
$ wget http://www.avalonmediasystem.org/downloads/avalon-installer-flat.tar.gz -O flat.tar.gz
$ tar xzf flat.tar.gz
$ export INSTALL_DIR=`pwd`
$ ln -s $INSTALL_DIR/avalon-installer-flat/files /etc/puppet/avalon_files

# 2. navigate to the installer
$ cd avalon-installer-flat

# 3. remove the Avalon deploy tag
$ rm -f /var/www/avalon/bare-deploy
$ rm -rf /opt/staging/avalon/avalon-bare-deploy.tar.gz /opt/staging/avalon/avalon-bare-deploy

# 4. pin mysql to version in new Gemfile.local
$ cp modules/avalon/files/shared/Gemfile.local /var/www/avalon/shared/Gemfile.local

# 5. apply the puppet manifest
$ puppet apply --fileserversconfig=fileservers.conf --modulepath=modules \
  --hiera_config=hiera/hiera.yaml --templatedir=templates manifests/init.pp

# 6. reindex
$ su - avalon -c "cd /var/www/avalon/current; RAILS_ENV='production' bundle exec rake avalon:reindex"
```

## Update config/controlled\_vocabulary.yml

Additional controlled vocabularies are required for Avalon 4. Merge the new version of config/controlled\_vocabulary.yml.example with your customizations in config/controlled\_vocabulary.yml. See [Managing Controlled Vocabularies](#).

## Upgrade Matterhorn

```
# 1. Switch to matterhorn user
$ su - matterhorn
$ cd /usr/local/matterhorn

# 2. Install updated encoding profiles
$ cd etc/encoding
$ wget --no-check-certificate https://raw.githubusercontent.com/avalonmediasystem/avalon-felix/1.4.x/etc/encoding/avalon.properties -O avalon.properties

# 3. Remove avalon workflow notifier bundle
$ rm /usr/local/matterhorn/lib/matterhorn/matterhorn-workflow-notifier-avalon-1.4-SNAPSHOT.jar

# 4. Restart Matterhorn
$ exit
$ service matterhorn stop
$ service matterhorn start
```

## Upgrade Red5

```
# 1. Stop Red5
$ service red5 stop

# 2. Switch to red5 directory
$ cd /usr/local/red5

# 3. Install updated avalon webapp
$ cd webapps/avalon
$ wget --no-check-certificate https://raw.githubusercontent.com/avalonmediasystem/avalon-red5/master/webapps/avalon/WEB-INF/lib/red5-avalon.jar -O WEB-INF/lib/red5-avalon.jar
$ wget --no-check-certificate https://raw.githubusercontent.com/avalonmediasystem/avalon-red5/master/webapps/avalon/WEB-INF/red5-web.properties -O WEB-INF/red5-web.properties
$ wget --no-check-certificate https://raw.githubusercontent.com/avalonmediasystem/avalon-red5/master/webapps/avalon/WEB-INF/red5-web.xml -O WEB-INF/red5-web.xml
$ wget --no-check-certificate https://raw.githubusercontent.com/avalonmediasystem/avalon-red5/master/webapps/avalon/META-INF/MANIFEST.MF -O META-INF/MANIFEST.MF
$ chmod -R a+x META-INF WEB-INF

# 4. Configure serverUrl to point to localhost
$ perl -pi -e 's/#avalon\.serverUrl=http:\/\/www\.example\.edu\/avalon\/avalon\.serverUrl=http:\/\/localhost/' WEB-INF/red5-web.properties

# 5. Restart Red5
$ service red5 start
```

## Restart Delayed Job

See details here: [Restart Delayed Job](#)

## Update AMS (if relevant)

If you are using Adobe Media Server for your streaming server, see [Updating AMS for Avalon 4.0](#).

## Sample Content

If you didn't load the sample content before, [try it out](#) to test your avalon 4.0 upgrade.