Panopto Redirection Setup Guide

1. Introduction

Panopto Redirection app is simple IIS site that replaces Ensemble platform redirection functionality.

This app is required only in case when customers have higher number of Ensemble embeds or permalinks used across their system that cannot be replaced so easily.

Application files contain all needed resources for setup, so no need to any additional software requirements.

Additional tool that is created for redirection setup is Migrator Tool that is used to sync Ensemble database with Panopto Redirection database. More details will be provided later in this document.

2. Prerequisites

It is recommended to setup Panopto Redirection app on Ensemble web server if no specific reason to shutdown that server.

For customers that prefer to configure the IIS light redirection service on a different server from the EV server, we recommend the following server configuration:

- CPU: 4 cores
- RAM: 8 GB
- OS: Windows Server 2016/2019
- HDD: 80 GB minimum system partition
- Ports: 80 (HTTP) 443 (HTTPS) access

Download Panopto Redirection app package from https://downloads.ensemblevideo.com/Ensemble/5.7/PanoptoRedirection.zip and unzip package somewhere where it is accessible to IIS as we will need to point IIS site to location of unzipped package.

Download Migrator Tool app package from https://downloads.ensemblevideo.com/Ensemble/5.7/MigratorTool.zip and unzip package somewhere on disk.

Make sure to unblock ZIP packages before unzip.

3. Site Creation

Prior to site creation we need to setup configuration of our PanoptoRedirection unzipped package. Navigate to unzipped package and open appsettings.json configuration file. Update "DbConnection" value to absolute path of DB file (located in unzipped package DB folder)

Next we want to create a new site "PanoptoRedirection" in IIS with "Physical path" pointing to Panopto Redirection app unzipped content (see screenshot below). You do not have to setup binding at this point as that will be explained in next section. In case you want to set site on Ensemble web server you might get warning about port 80 binding which you should accept.
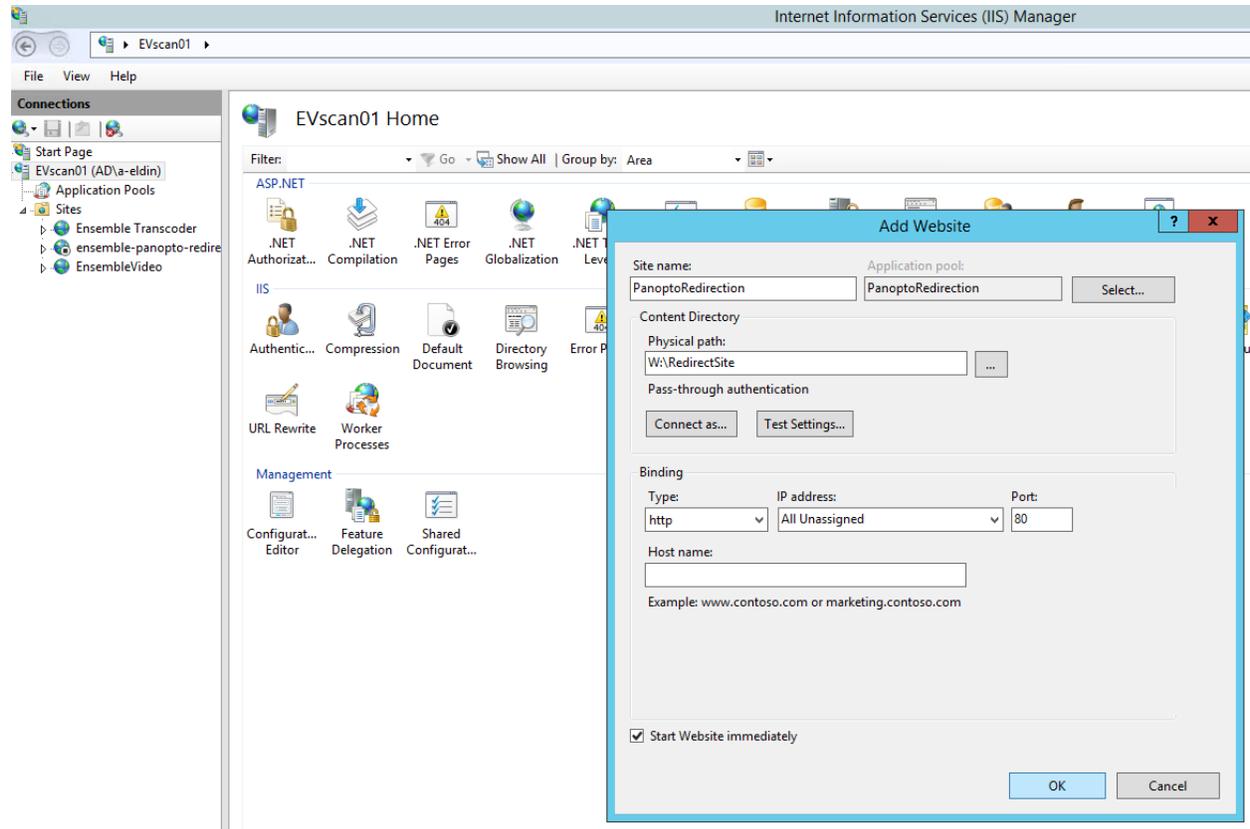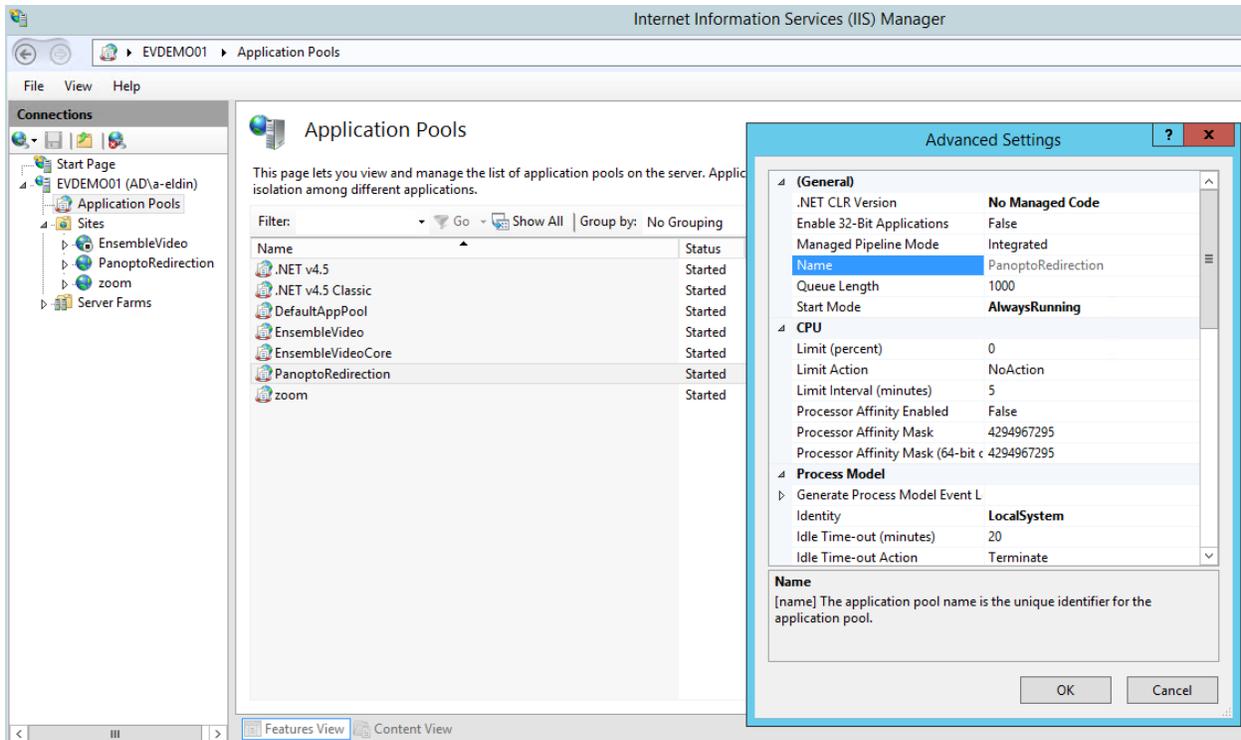

4. Application Pool

With step 3. application pool will be created. Navigate to the PanoptoRedirection application pool and update settings as in screenshot below:

.NET CLR Version: **No Managed Code**

StartMode: **AlwaysRunning**

Identity: **LocalSystem**

5. Binding Setup and EnsembleVideo settings

Go to "PanoptoRedirection" IIS site and edit bindings. Make sure that bindings are set in the same way as it was set for EnsembleVideo IIS web site as now we want our redirection site to be requested instead of Ensemble.

Login to Ensembe UI and make sure that "Is Migrated" checkbox is checked for every institution.

6. Data Syncing

For data synching between Ensemble database and Panopto Redirection site we use Migrator Tool that we have previously downloaded and unzipped.

First thing that we need to do is to setup connection string for Migrator Tool. Open appsettings.json file from Migrator Tool root folder and find "ConnectionStrings" section as below.

"ConnectionStrings": {

  "DbConnection": "Data Source=W:\\RedirectSite\\DB\\Redirector.db",

  "EnsembleDbConnectionString": "Data Source=.;Initial Catalog=ensembleDev;Trusted_Connection=True;"

 },

"DbConnection" value should be set to path of Panopto Redirection site database. Make sure to have double backslash in DB path.

"EnsembleDbConnectionString" value should be set to Ensemble database connection string (Ensemble web root connections.config contains this setting)

After this setting is completed we can now run syncing.

The Migrator Tool required **.Net Core 3.1**. It needs to be installed before running the Migrator Tool.

Open CMD window and navigate to Migrator Tool root folder. Then run command as in screenshot below. Make sure to set parameter --InstitutionId to institution id that you want to synchronize.

W:\MigratorTool > EnsemblePanoptoRedirection.MigrationTool.exe --InstitutionId = "INSTITUTIONID"
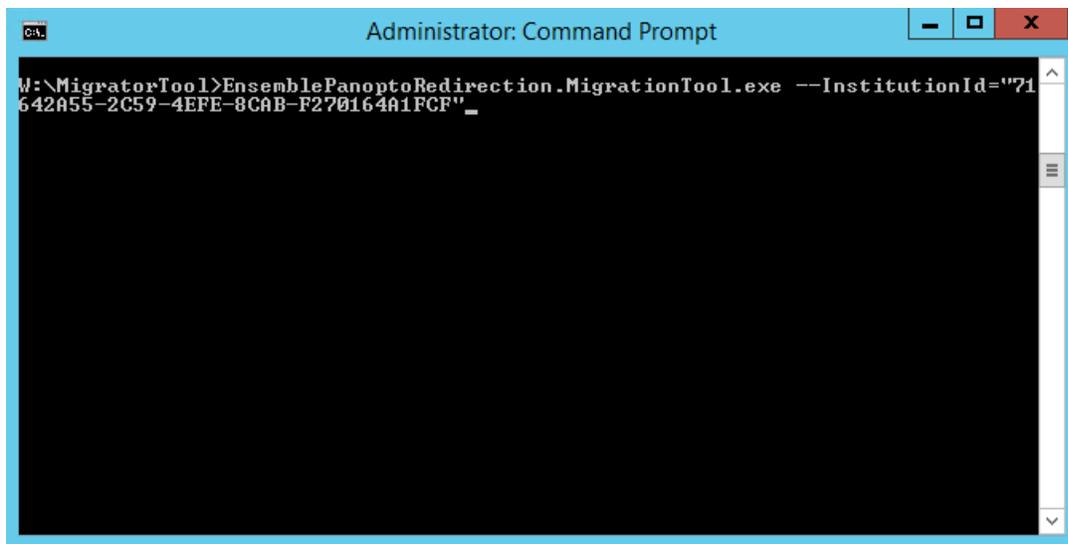
In case you want to synchronize multiple institutions like in case of cloud system you can run command multiple times for different institutions.

7. Start Redirection

Now when we have everything configured and migrated data to Panopto Redirection database we can start site.

Before starting "PanoptoRedirection" site make sure that Ensemble is shutdown and all Ensemble related IIS sites are stopped. All Ensemble related software (IIS Ensemble Video web site, Ensemble Service, Redis, DB, Wowza, transcoder…) should be turned off and set to manual startup, so it does not happen that some of components start after server reboot.

Do some testing with Ensemble permalink or embed to see that actually "PanoptoRedirection" site is redirecting to Panopto.

8. DB Backup

After redirection if set and confirmed that it is working backup of redirection database should be created – located in <"PanoptoRedirection" site root>\DB\Redirector.db

9. Redirection update

Before doing redirection service update please make sure to create a full backup of "PanoptoRedirection" site.

Once backup is completed download latest PanoptoRedirection package from here:

https://downloads.ensemblevideo.com/Ensemble/5.7/PanoptoRedirection.zip

Unzip downloaded package and copy – paste all files from unzip package to "PanoptoRedirection" site root except following:

/DB/Redirector.db (we do not want to override existing database data)

/appsettings.json (we have to manually compare changes)

Compare manually appsettings.json files from unzip package and root "PanoptoRedirection" site and add any new confirmation items.

Perform iisreset command to apply new changes.

10. Custom root DNS message

When accessing to root site like "https://cloud.ensemblevideo.com" migrated to "PanoptoRedirection" service you will get following message "**Ensemble Video is no longer available. Ensemble Video content**

may have been migrated to Panopto for your institution. Please login to Panopto to access your Ensemble Video content. Contact your local helpdesk with any questions."

If you want to change this message make sure that you have installed latest "PanoptoRedirection" service and update "Message" configuration entry in appsettings.json config file with your custom message.

"Message": "Ensemble Video is no longer available. Ensemble Video content may have been migrated to Panopto for your institution. Please login to Panopto to access your Ensemble Video content. Contact your local helpdesk with any questions.",

This will apply message to all institutions.

In case you want to apply custom message for specific institution then add following configuration entry.

"example.ensemblevideo.com": "Custom message for example.ensemblevideo.com". Make sure to replace "example.ensemblevideo.com" with your institution DNS.