

Tools of the Trade

using msbuild to automate packaging



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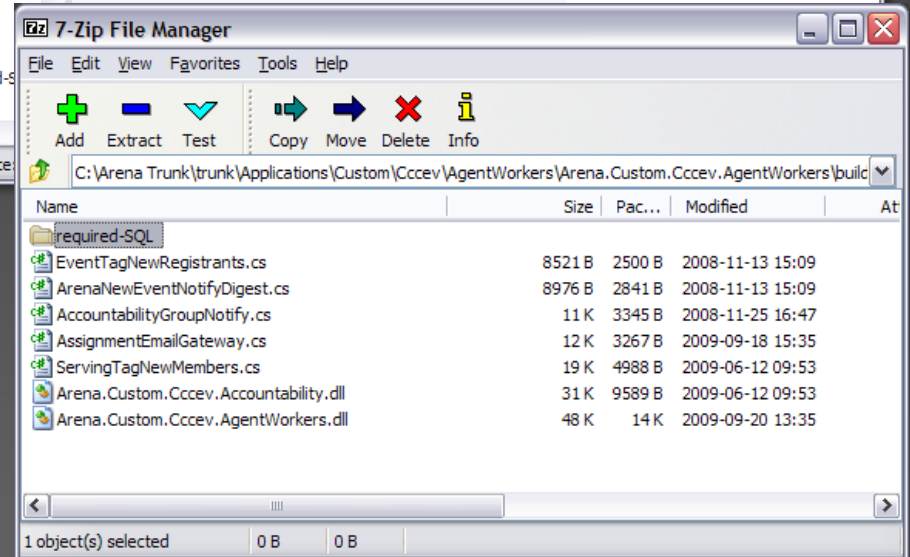
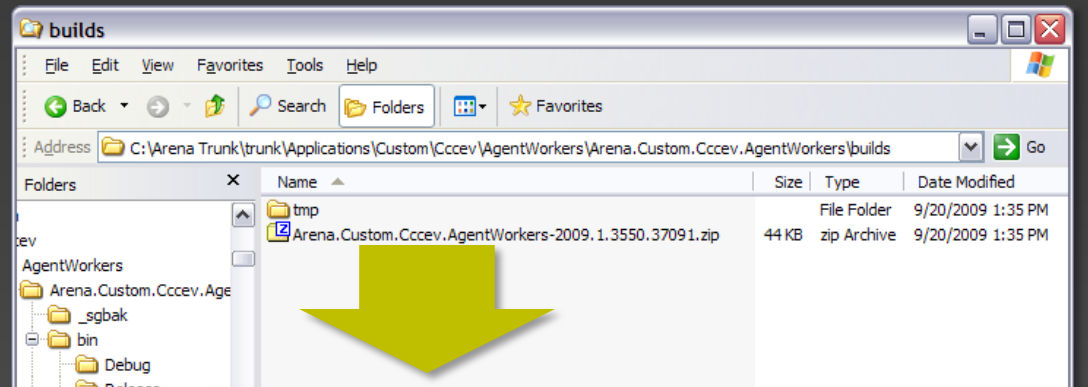
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REFRESH

Monkey Tasks

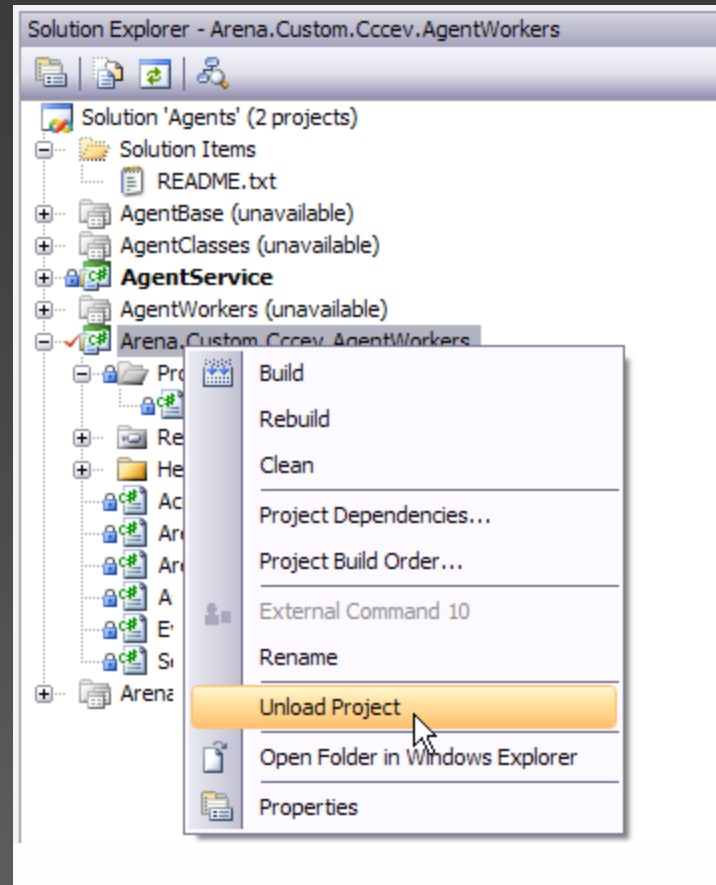
● Kill the monkey



Visual Studio Project

● Unload

● Edit



REFRESHING the .csproj

● Import

● Target

● Clean

```
<Project>
.
.
.
<Import Project="$(MSBuildExtensionsPath)\MSBuildCommunityTasks\MSBuild.Community.Tasks.Targets" />

<PropertyGroup>
  <BuildDir>builds</BuildDir>
</PropertyGroup>

<Target Name="AfterBuild" DependsOnTargets="BuildPackageZip">
</Target>

<!-- Clean old stuff -->
<Target Name="DeleteFiles">
  <ItemGroup>
    <OldFiles Include="$(BuildDir)\tmp\*" />
  </ItemGroup>
  <Delete Files="@{(OldFiles)" />
</Target>
```

Copy

```
...
<!-- Prepare the files to be zipped -->
<Target Name="CopyFiles" DependsOnTargets="DeleteFiles">

    <ItemGroup>
        <CopyFiles Include="*.cs" Exclude="MetricsByZip.cs;ArenaFamilySplitter.cs" />
        <CopyFiles Include="$(OutputPath)Arena.Custom.Cccev.Accountability.dll" />
        <CopyFiles Include="$(OutputPath)Arena.Custom.Cccev.AgentWorkers.dll" />
    </ItemGroup>

    <ItemGroup>
        <SqlFiles Include="Helpers\SQL\*" />
    </ItemGroup>

    <MakeDir Directories="$(BuildDir)\tmp" Condition="!Exists('$(BuildDir)\tmp')" />
    <MakeDir Directories="$(BuildDir)\tmp\required-SQL" Condition="!Exists('$(BuildDir)\tmp\required-SQL')" />
    <Copy SourceFiles="@(\CopyFiles)" DestinationFolder="$(BuildDir)\tmp" />
    <Copy SourceFiles="@(\SqlFiles)" DestinationFolder="$(BuildDir)\tmp\required-SQL" />

</Target>
...
```

● Condition

● Version

● Zip

```
<!-- Create the package zip file -->
<Target Name="BuildPackageZip" DependsOnTargets="CopyFiles"
  Condition="'$(Configuration)' == 'Release'">

  <ItemGroup>
    <ZipFiles Include="$(BuildDir)\tmp\*" />
  </ItemGroup>

  <Version BuildType="Automatic" RevisionType="Automatic" Major="2009" Minor="1">
    <Output TaskParameter="Major" PropertyName="Major" />
    <Output TaskParameter="Minor" PropertyName="Minor" />
    <Output TaskParameter="Build" PropertyName="Build" />
    <Output TaskParameter="Revision" PropertyName="Revision" />
  </Version>

  <Zip Files="@ (ZipFiles)" WorkingDirectory="$(BuildDir)\tmp\"
    ZipFileName="$(BuildDir)\Arena.Custom.Cccev.AgentWorkers-$(Major).$(Minor).$(Build).$(Revision).zip"
    ZipLevel="9" />

</Target>
.
.
.
</Project>
```

REFRESH

command line

- msbuild Arena.Custom.Cccev.AgentWorkers.csproj /property:Configuration=Release

```
Visual Studio 2008 Command Prompt

ld\src\Arena.Custom.Cccev.Accountability.dll".
Copying file from "bin\Release\Arena.Custom.Cccev.AgentWorkers.dll" to "build
s\src\Arena.Custom.Cccev.AgentWorkers.dll".
Copying file from "Helpers\SQL\cust_cccev_sp_get_personSubscribersByProfileTy
pe.sql" to "builds\src\required-SQL\cust_cccev_sp_get_personSubscribersByProf
ileType.sql".
Copying file from "Helpers\SQL\cust_cccev_sp_get_profileMemberActivity.sql" t
o "builds\src\required-SQL\cust_cccev_sp_get_profileMemberActivity.sql".
BuildInstallZip:
Version: 2009.1.3550.39804
Creating zip file "builds\Arena.Custom.Cccev.AgentWorkers-2009.1.3550.39804.z
ip".
  added "AccountabilityGroupNotify.cs".
  added "Arena.Custom.Cccev.Accountability.dll".
  added "Arena.Custom.Cccev.AgentWorkers.dll".
  added "ArenaNewEventNotifyDigest.cs".
  added "AssignmentEmailGateway.cs".
  added "EventTagNewRegistrants.cs".
  added "required-SQL/cust_cccev_sp_get_personSubscribersByProfileType.sql".
  added "required-SQL/cust_cccev_sp_get_profileMemberActivity.sql".
  added "ServingTagNewMembers.cs".
Created zip file "builds\Arena.Custom.Cccev.AgentWorkers-2009.1.3550.39804.zi
p" successfully.
Done Building Project "C:\Arena Trunk\trunk\Applications\Custom\Cccev\AgentWork
ers\Arena.Custom.Cccev.AgentWorkers\Arena.Custom.Cccev.AgentWorkers.csproj" (de
fault targets).

Build succeeded.

"C:\Arena Trunk\trunk\Applications\Custom\Cccev\AgentWorkers\Arena.Custom.Cccev
.AgentWorkers\Arena.Custom.Cccev.AgentWorkers.csproj" (default target) (1) ->
<CoreCompile target> ->
  CSC : warning CS1668: Invalid search path 'C:\Program Files\Microsoft SDKs\Wi
ndows\v6.0A\lib' specified in 'LIB environment variable' -- 'The system cannot
find the path specified.'
  AccountabilityGroupNotify.cs(221,27): warning CS0168: The variable 'ex' is de
clared but never used
    2 Warning(s)
    0 Error(s)

Time Elapsed 00:00:01.09

C:\Arena Trunk\trunk\Applications\Custom\Cccev\AgentWorkers\Arena.Custom.Cccev.A
gentWorkers>
```

REFRESH

Get Free Tasks

- MSBuild.Community.Tasks

<http://msbuildtasks.tigris.org/>

- MSBuild Extension Pack

<http://msbuildextensionpack.codeplex.com/>