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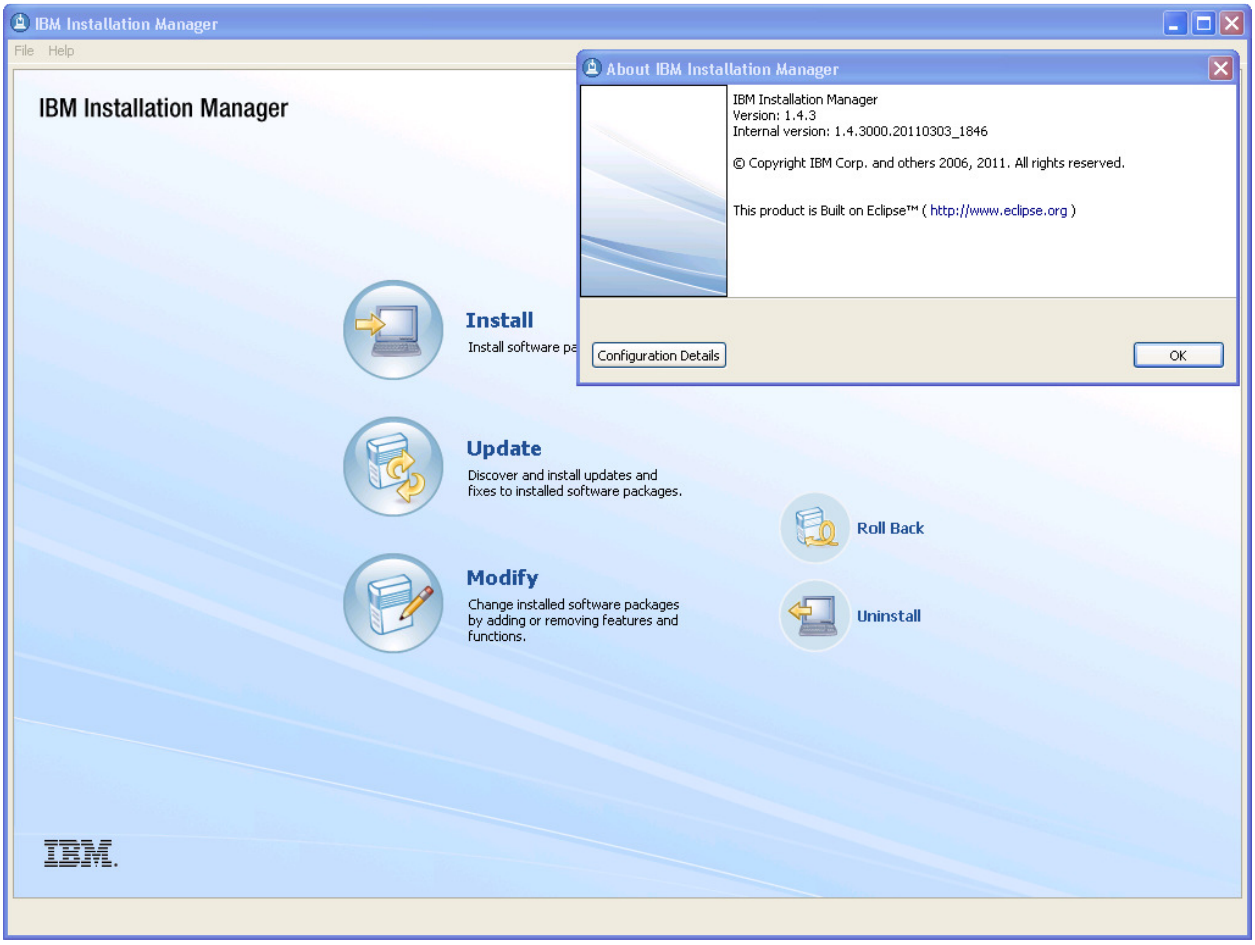
Rational 7.1.2 Installation Manager and Packaging Utility

With the release of Rational 7.1 tools, we now have an application named IBM Installation Manager to oversee the installation of all IBM Rational products. IM depends upon previously created installation "packages", which contain the necessary instruction for installing the software package. There is also something named IBM Packaging Utility which is capable of creating packages which Installation Manager can then install. This document is intended to cover the use of both these installation methodologies, giving examples with the latest available releases as of this writing.

Version 1.4.3 of Installation Manager (IM) has been installed to begin this example. This can be installed by running *launchpad.exe* from a current distribution of many IBM software products. Usually you will first get an older version, which can then be upgraded by directing IM to update itself. We won't go through how to install an initial version of IM unless there is a great groundswell of demand for this in a future document.



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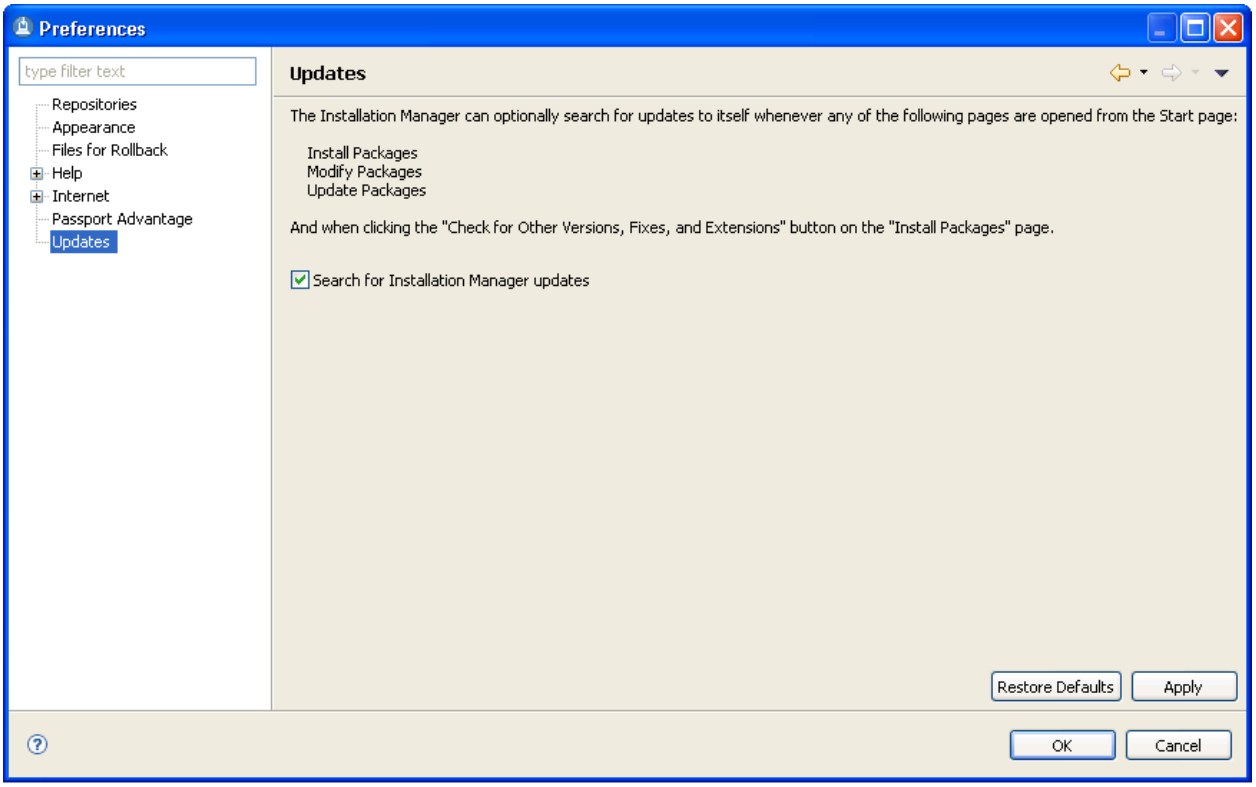
First let's have a quick look at how to set IM for future self upgrades. Often newer software package releases will require an updated IM to conduct the installation. Follow these steps:

- Pull down: File -> Preferences
- Select the Updates option. Note that there is a checkbox which allows for updates to Installation Manager itself.
- Check the box and click Apply.



Then click on Repositories in the left hand panel so we can proceed with an installation, in this case, we will install Packaging Utility.

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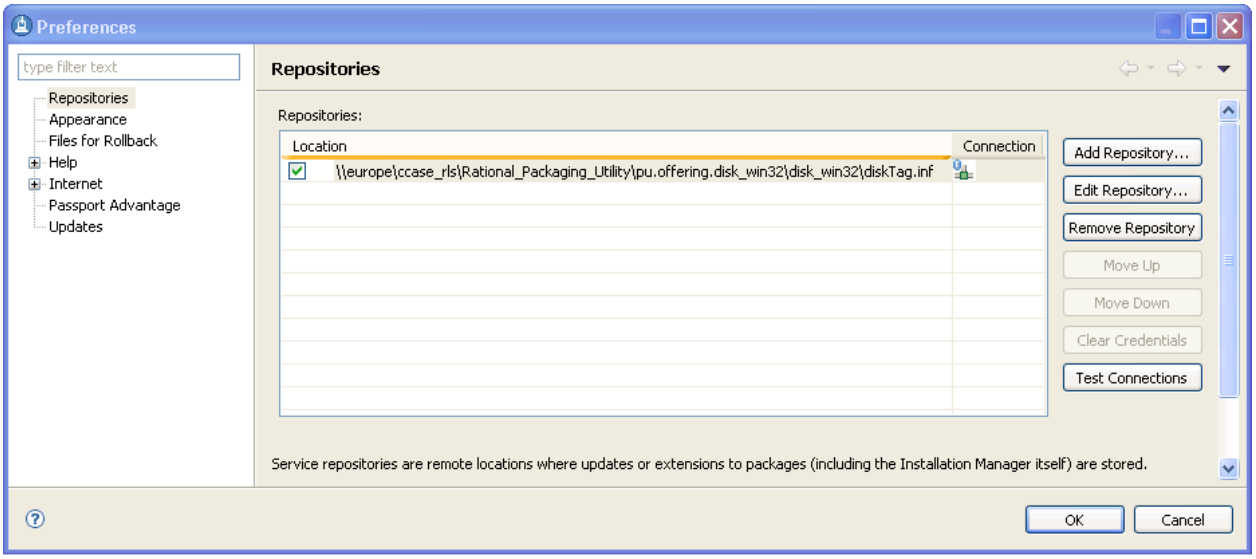

In the Repositories panel, we need to add the Packaging Utility (PU) repository so that we can install it. In the next screenshot, we are still in the IM Preferences panel and we click on Add Repository. Having previously downloaded PU from IBM's website and unzipping it, we add this repository by navigating to "diskTag.inf" file and selecting this as seen above. Click OK on the Preferences panel to return to the main IM panel.

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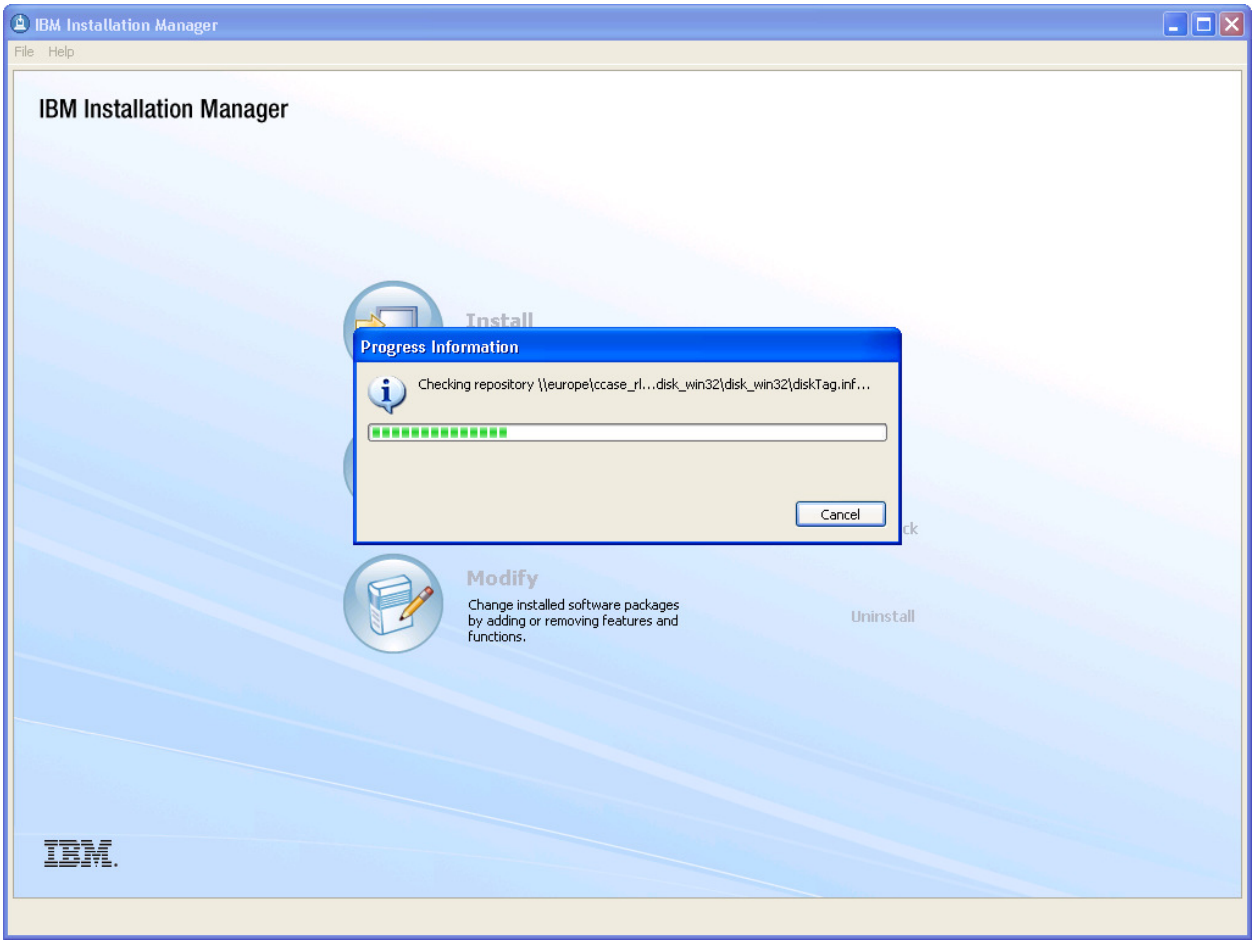

We are ready to begin an installation. Click Install on IBM Installation Manager. IM picks up the items that have been added to the list of repositories. The resulting install panel is shown in the next screenshot.

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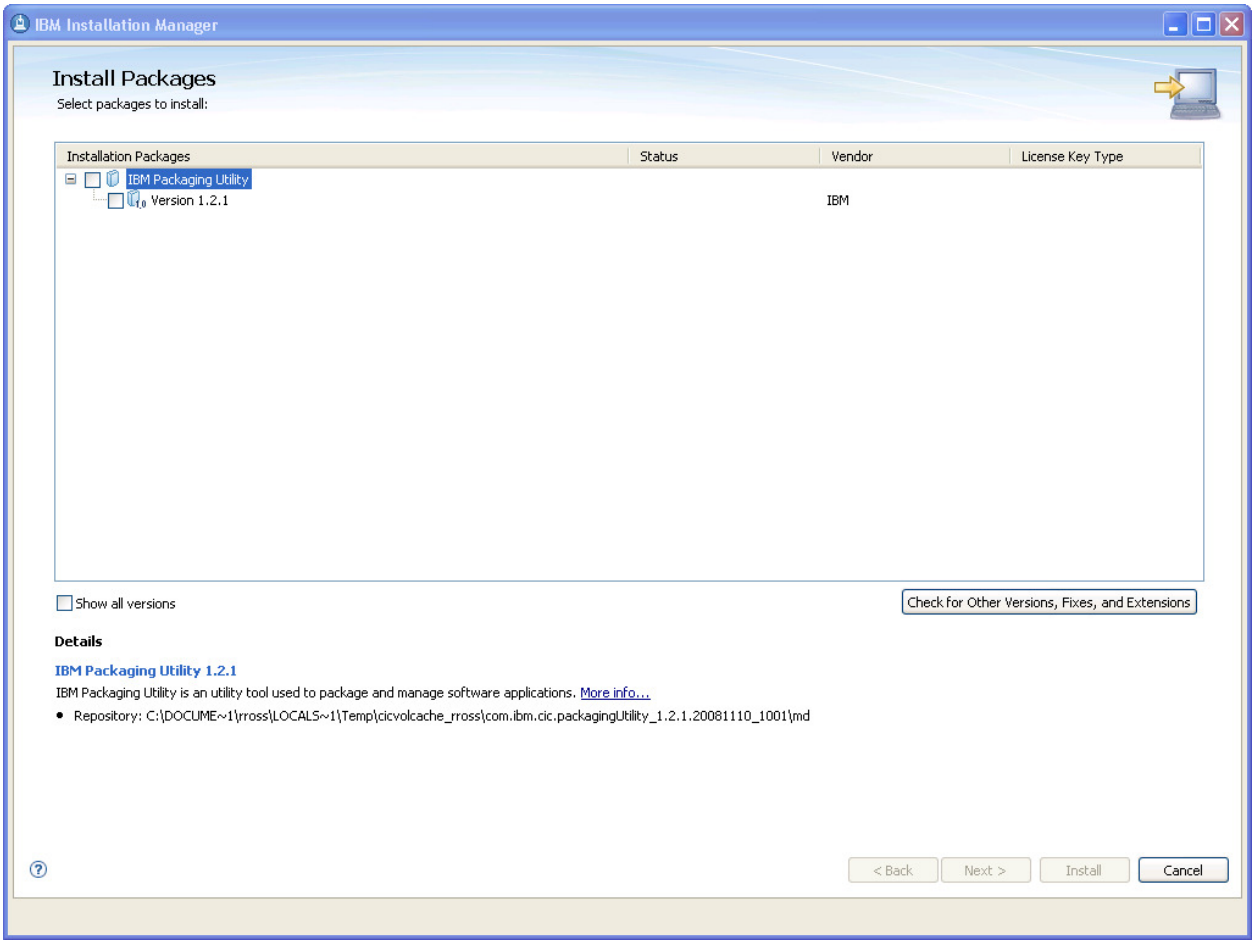

Here we have IBM Packaging Utility shown as a candidate for installation. Click the check boxes and then click on “Check for Other Versions, Files, and Extensions”. The next screenshot shows the results.

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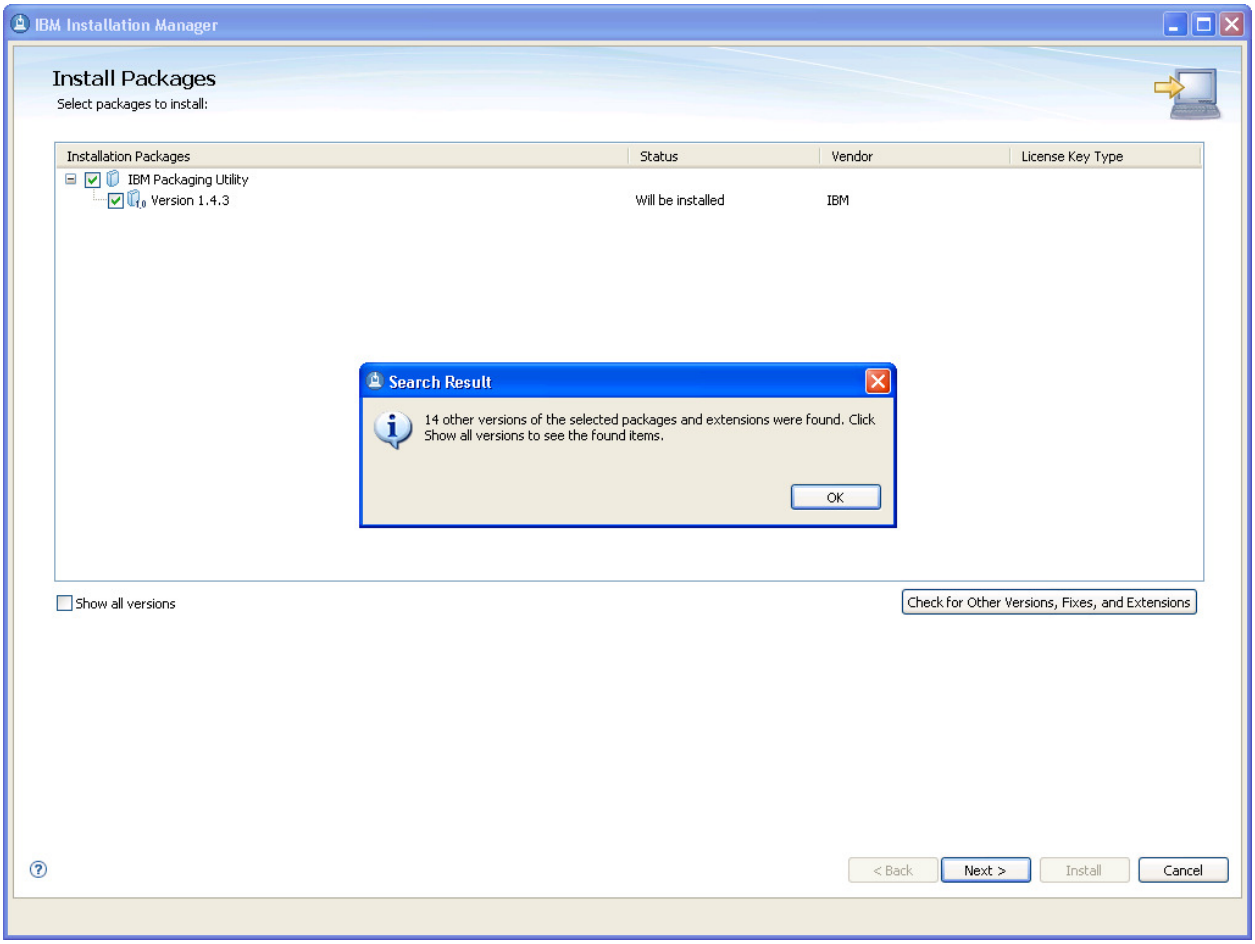

We now have the latest available updates to the older version of Packaging Utility we had downloaded. Click OK on the pop-up. Go ahead and check the "Show all versions" checkbox at the lower left of the panel, and all the available versions will be displayed as shown in the next screenshot.

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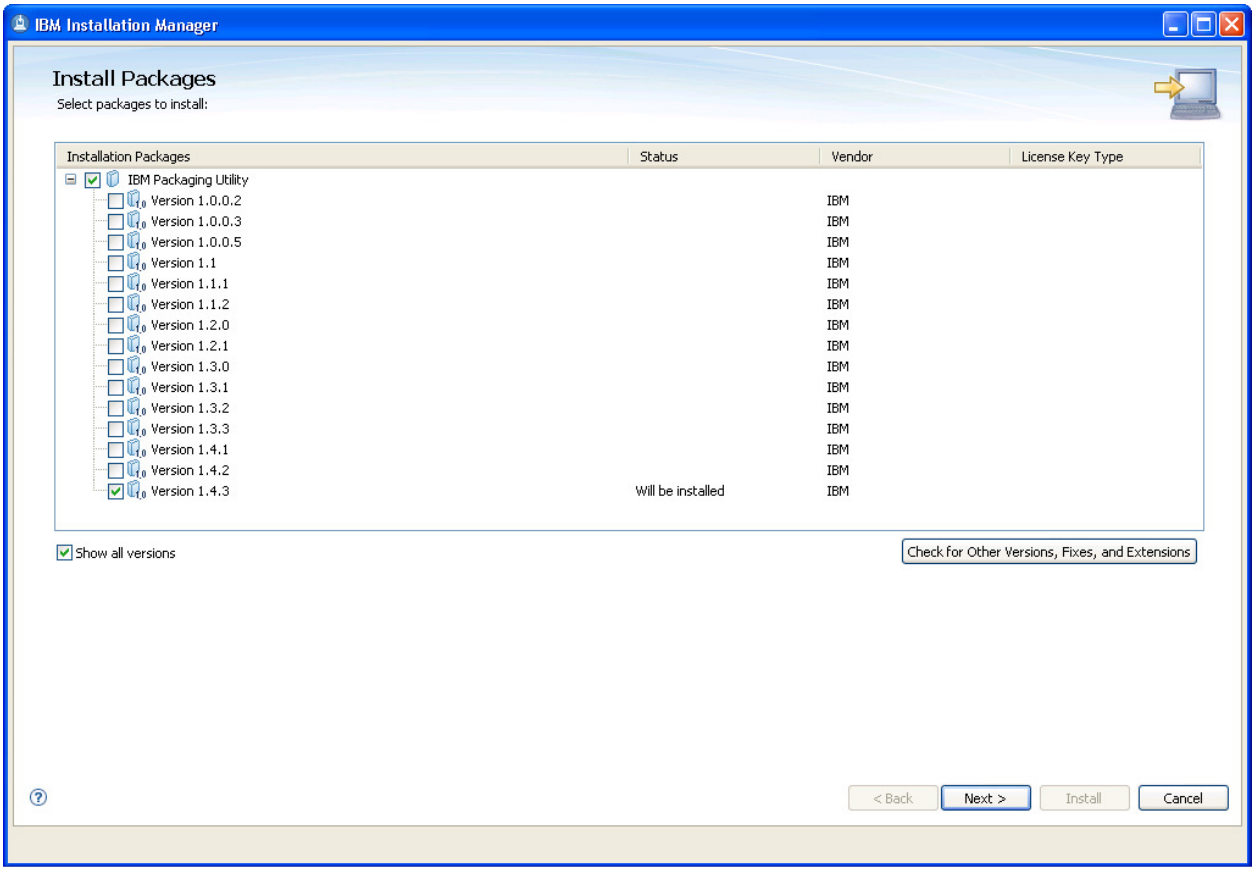

We can see that many patch bundles are available for Packaging Utility. We will pick the one that corresponds to the version of IM we are using: 1.4.3. IBM lists this as a requirement, by the way. Click Next.

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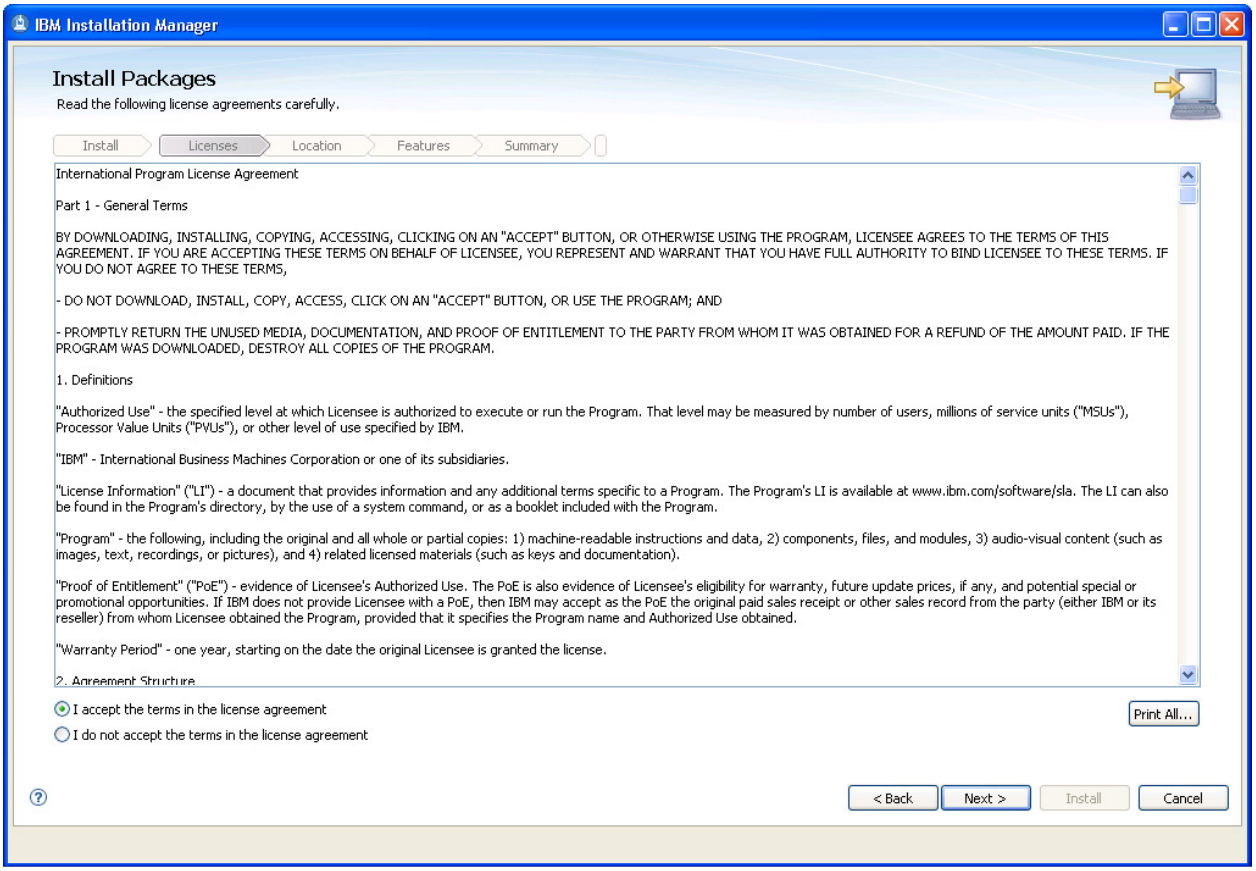

We now have the IM license acceptance panel. Accept the license agreement, and click Next.

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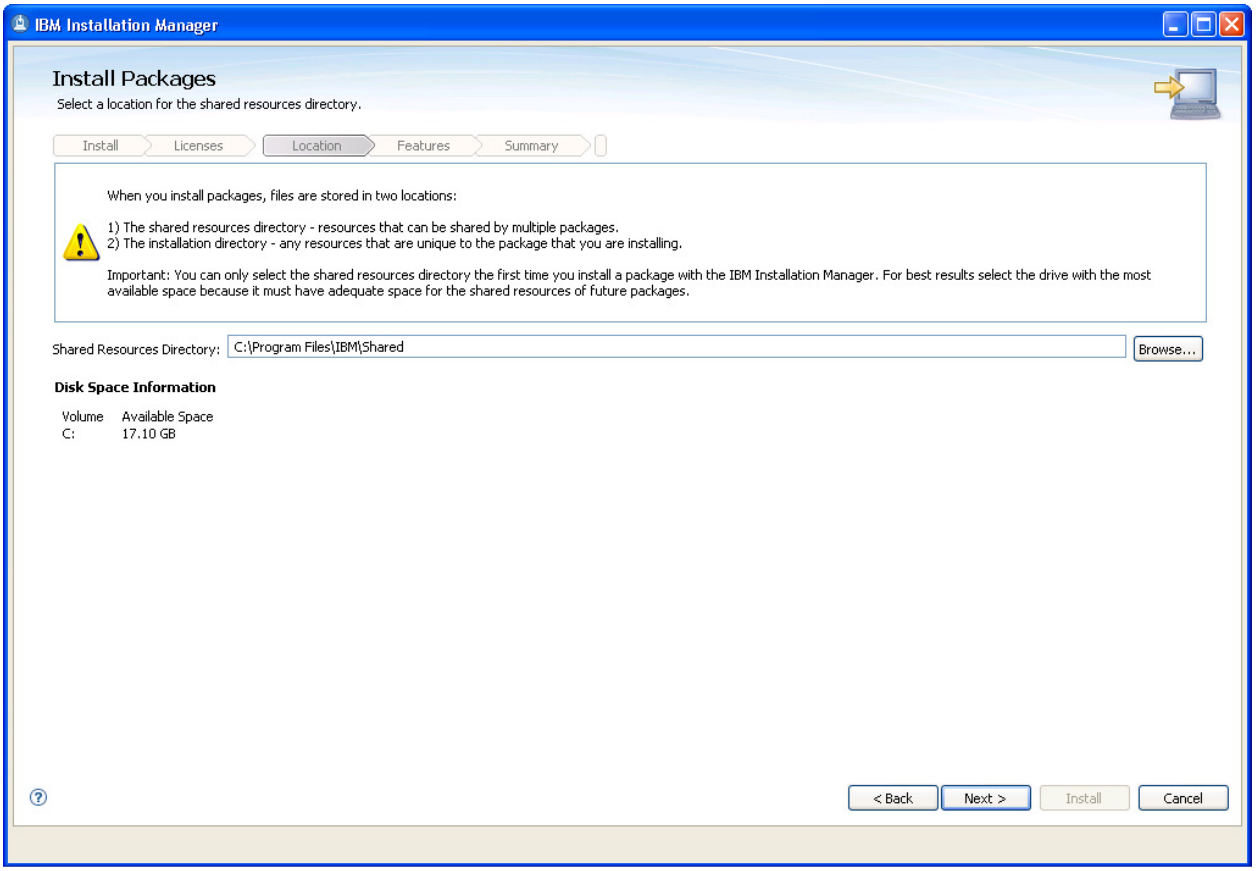

When using IM, there are typically two different repositories that it will install into. There is a repository for shared resources, and also a repository for the software package being installed. Click Next on where to install shared resources, unless there is a preference for locating this somewhere else.

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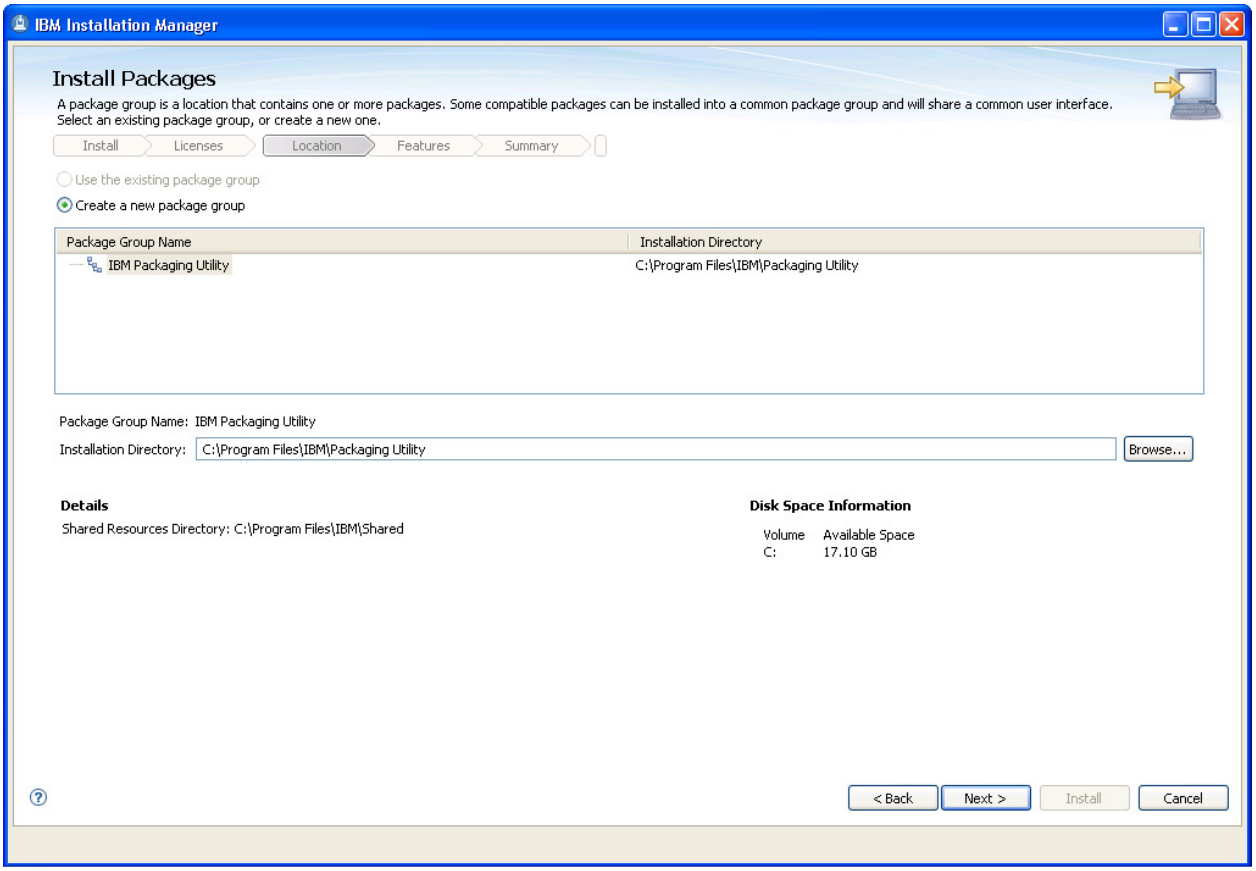

Here we have the location of the repository where Packaging Utility will be installed. Unless there is a need to change this, click Next.

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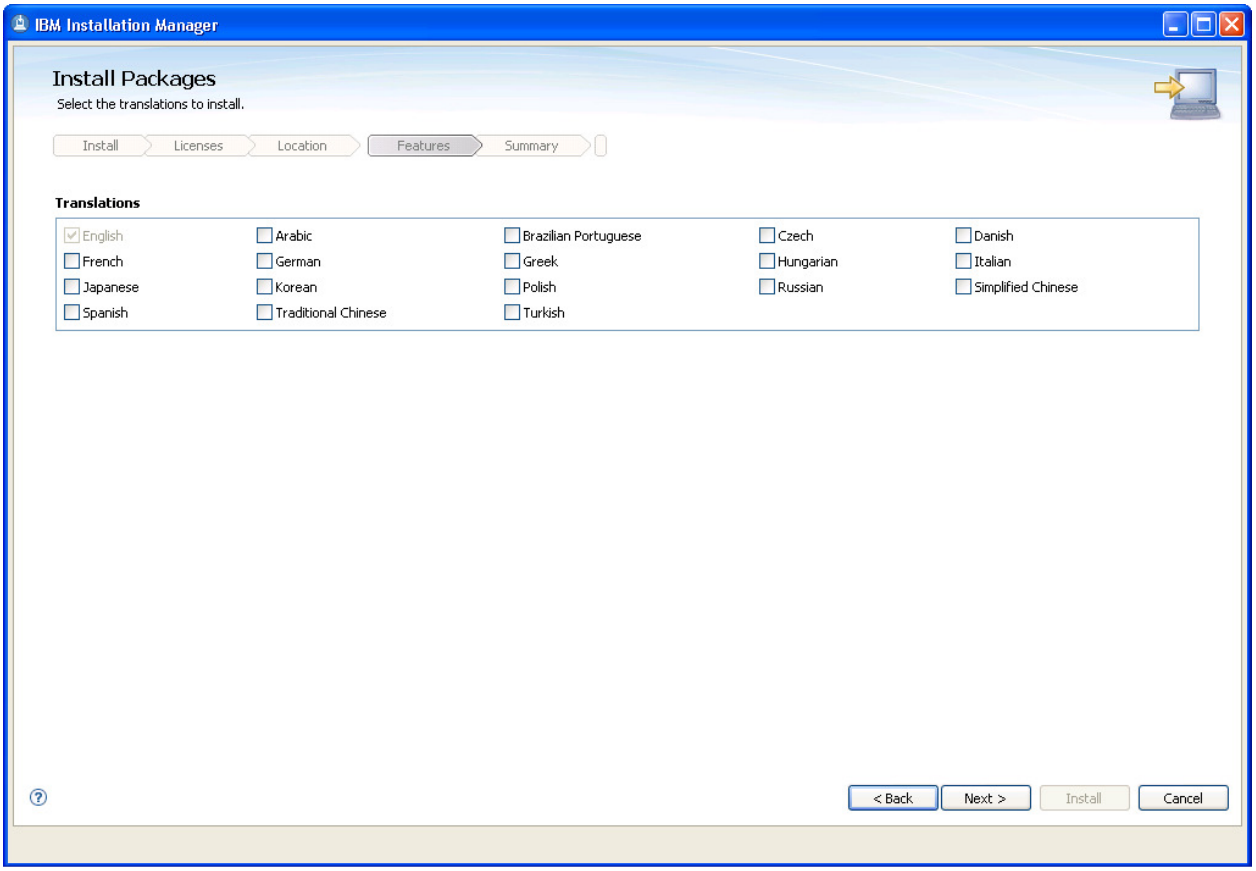

We are making the assumption that English is all that is needed for this installation. If something more is needed, check the box for that language. I haven't tried this, so I can't guarantee the results. Click Next.

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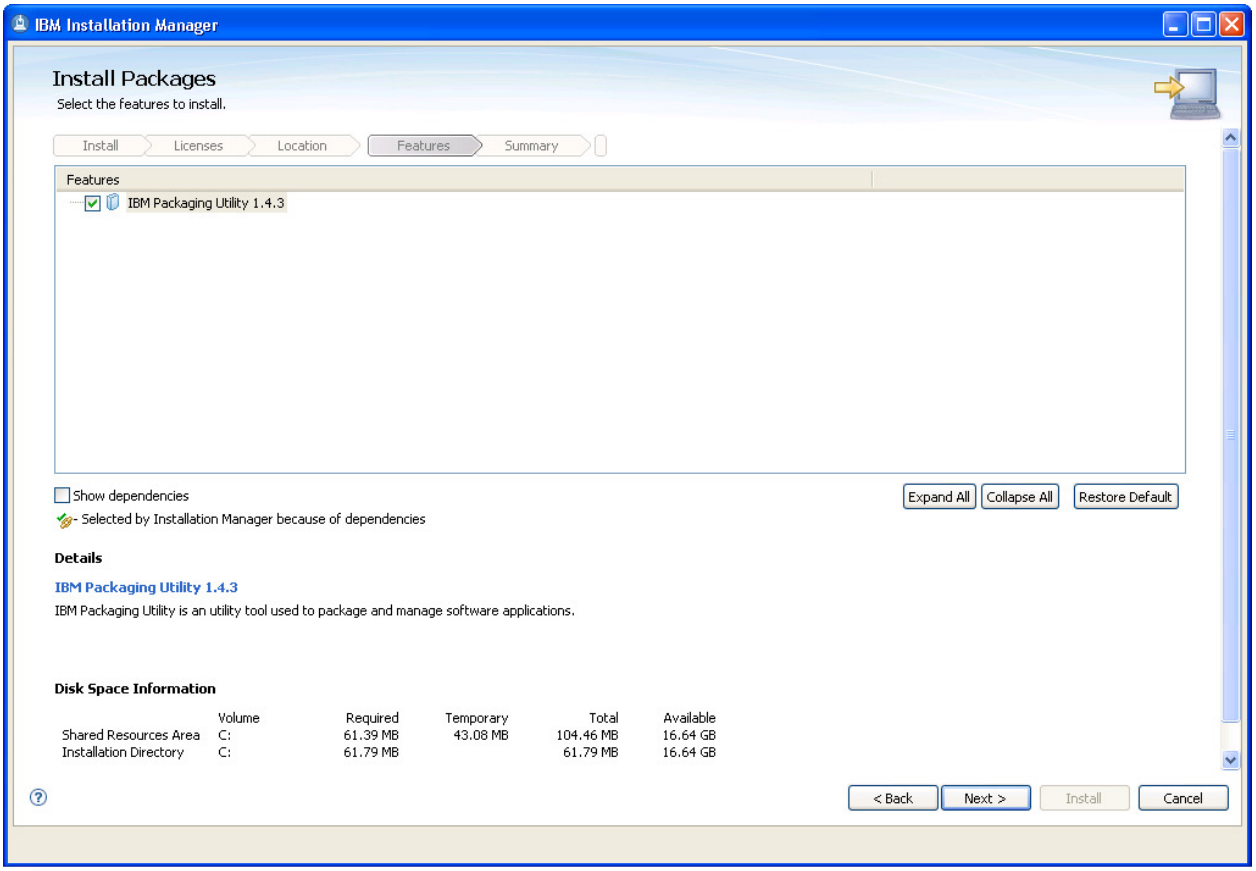

This panel gives the option of selecting, or not, various features in the software being installed. In the case of Packaging Utility, there are no options. Later on when we show other software being installed, we will see options to select. Click Next.

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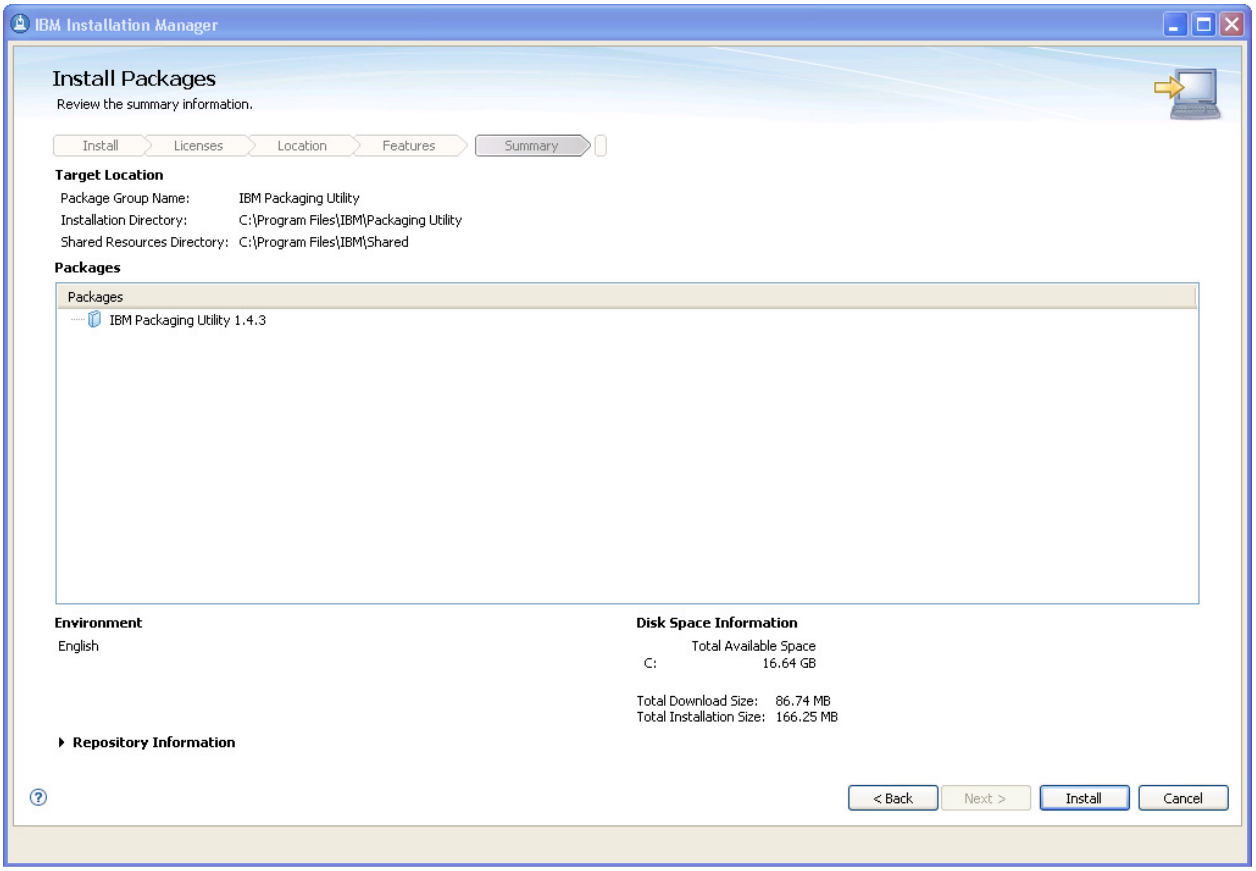

Last chance before we leave the station. To proceed, click Install.

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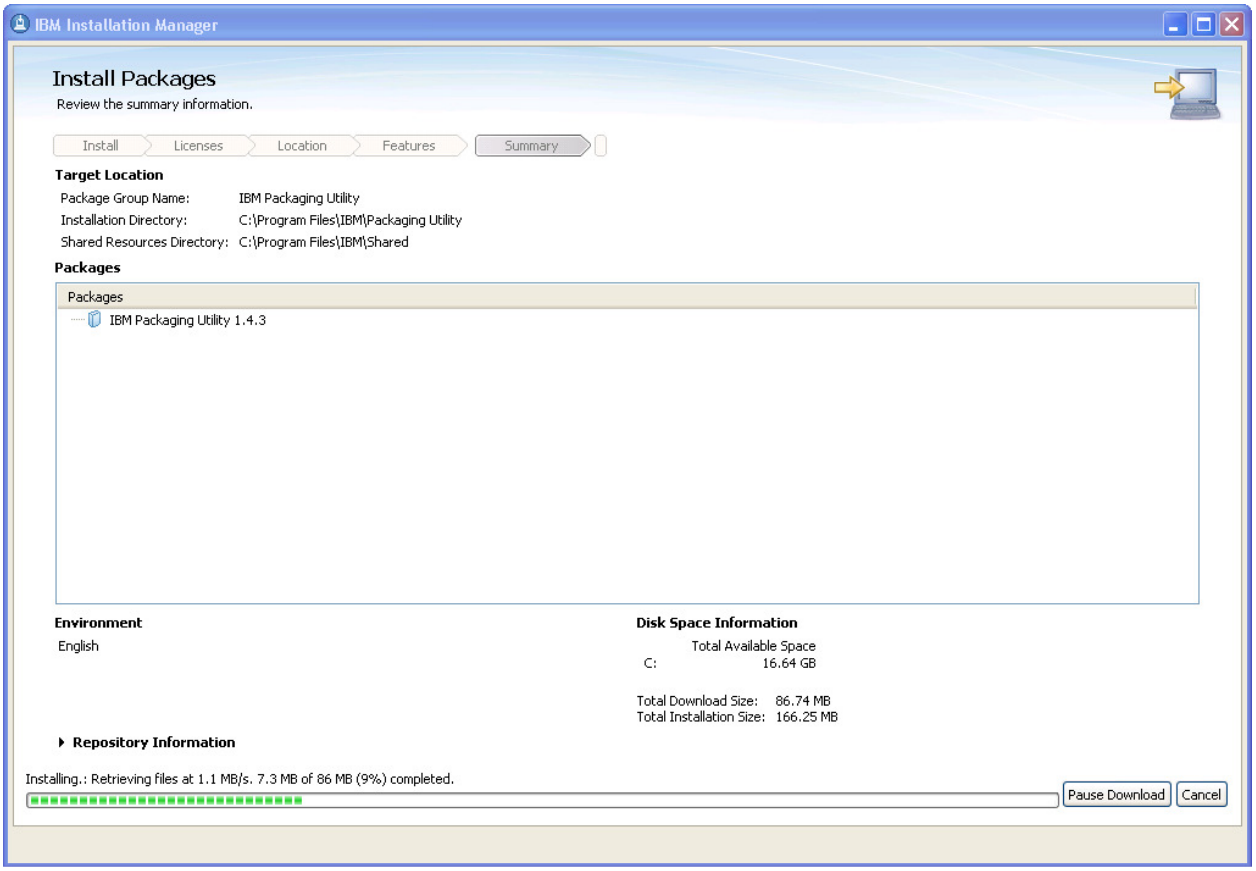

Here we see the install proceeding. Unless there is some reason to Pause or Cancel, work on something else (or get coffee) until the install completes.

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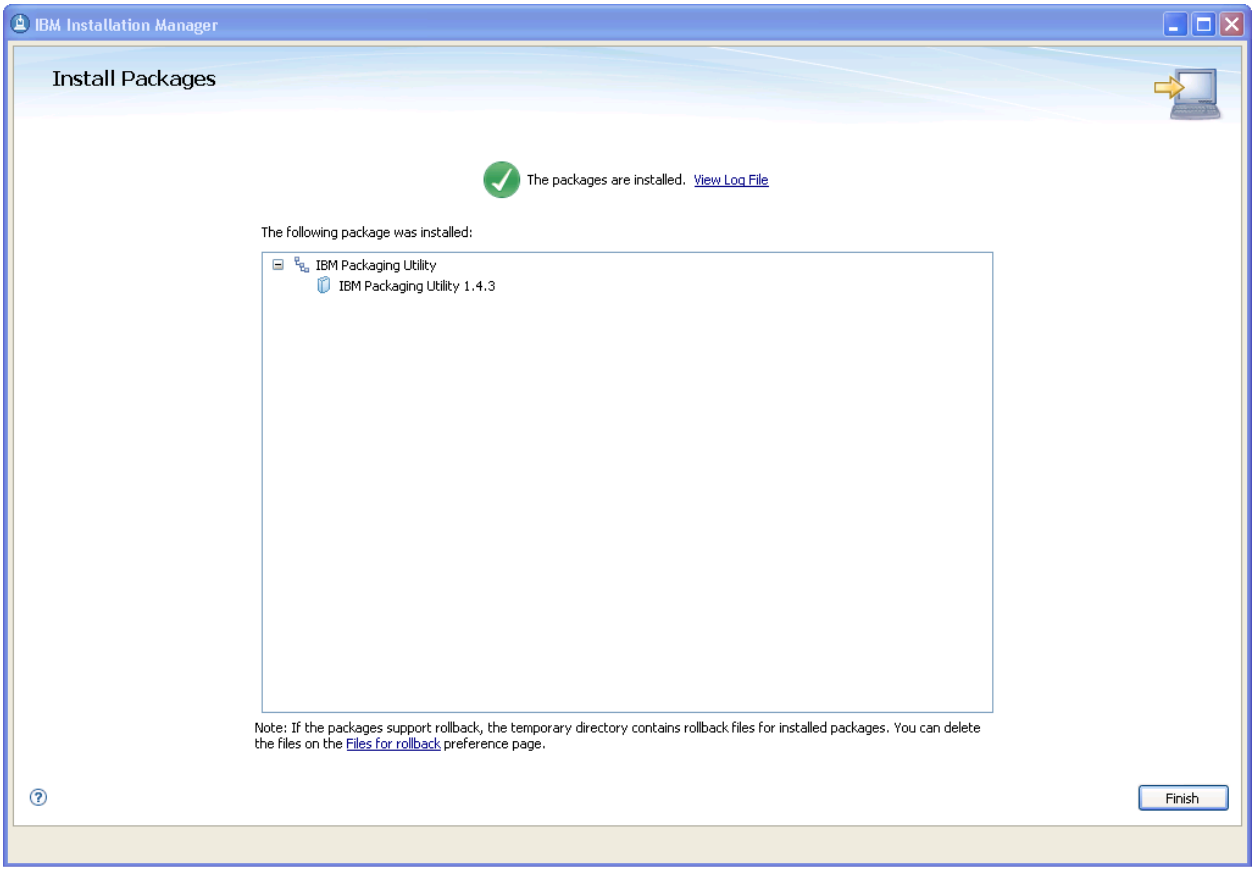

The install of Packaging Utility was successful. Click Finish. Then close IM. We will now proceed to use the Packaging Utility software that we have just installed.

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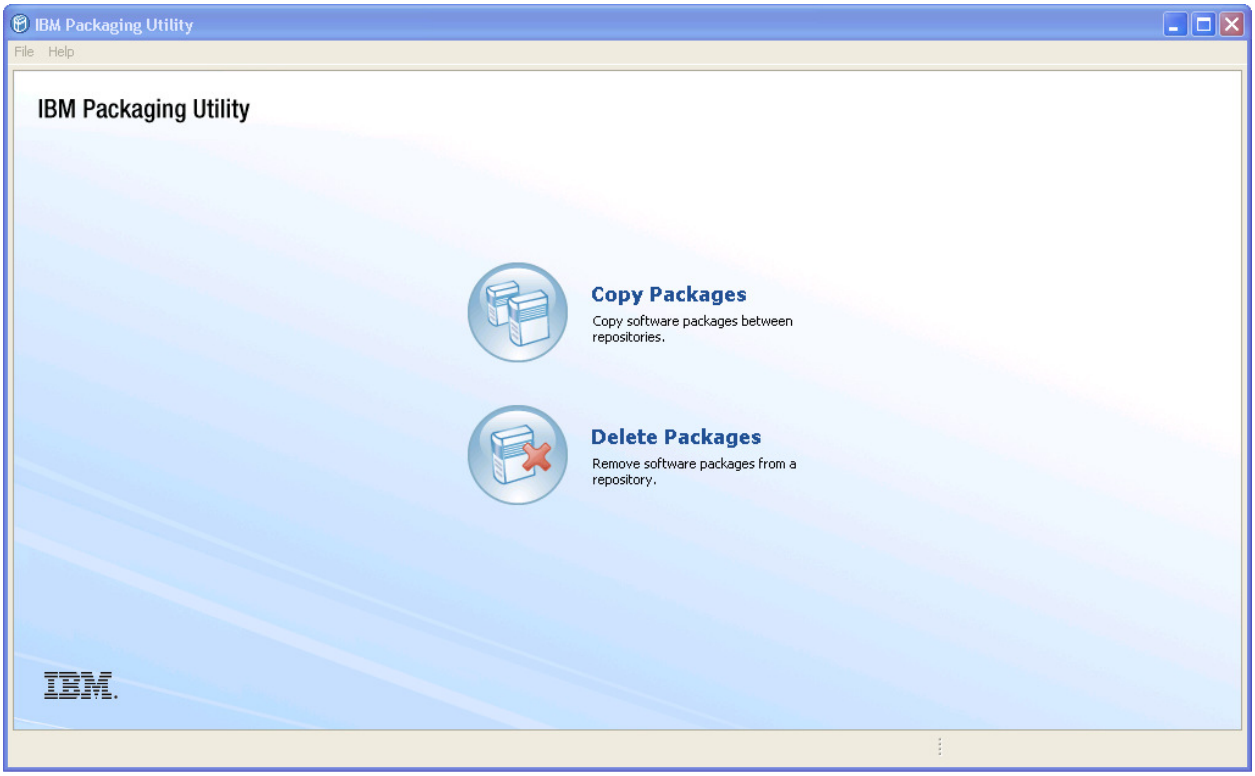

Here we have launched Packaging Utility. Click the Copy Packages icon. Our intent is to demonstrate the creation of a installation package that will contain ClearCase 7.1.2, ClearQuest 7.1.2, and License Administrator 8.1.1. Once the package has been created, Installation Manager can then be used to install all three software packages as a single installation.

We should give a bit more background on Rational 7.1.2. It turns out that with ClearCase and ClearQuest 7.1.2, Rational License Key Administrator must (LKAD) be installed as a separate install. Prior to this, LKAD was included with the install of either ClearCase or ClearQuest. This is no longer the case. In fact, when upgrading to Rational 7.1.2, any prior version of LKAD is uninstalled! So LKAD will need to now be explicitly installed.

In the next screenshot, we see the result of clicking on Copy Packages. We will need to point to the repositories we want to include in our new install package.

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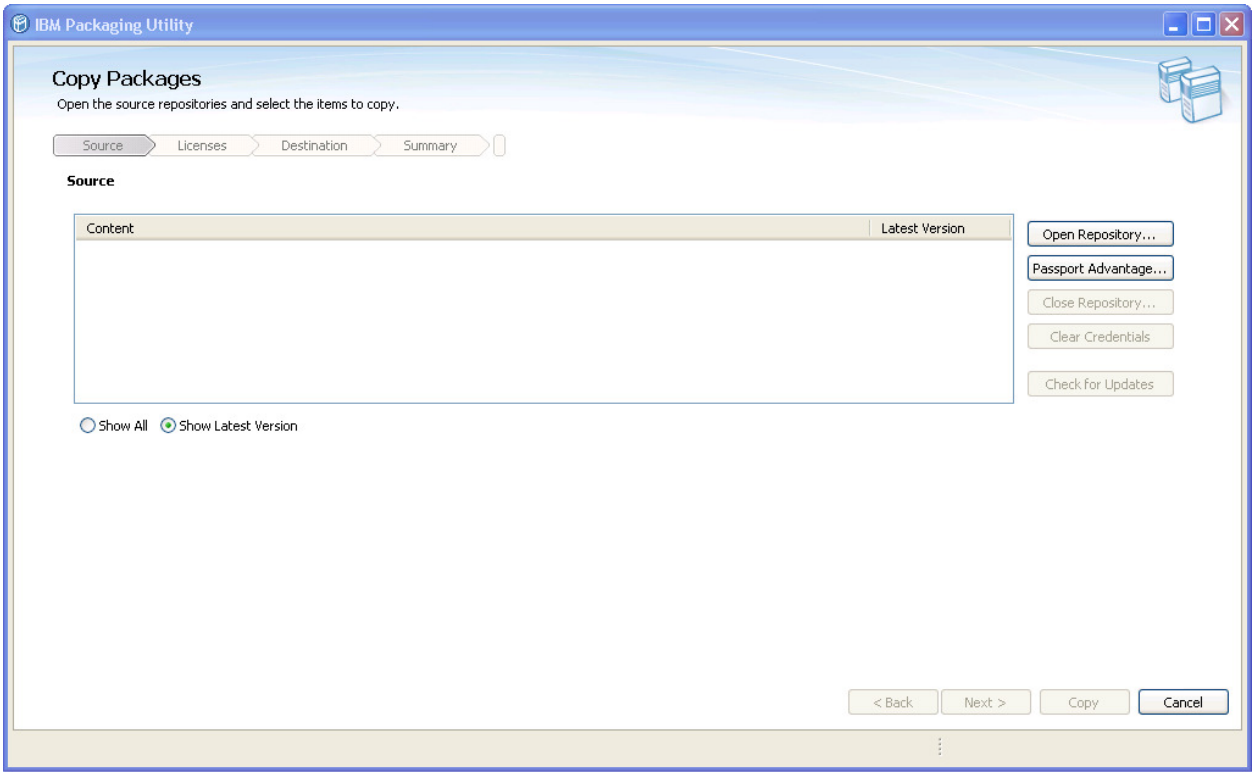

To add a repository, first click on Open Repository… The results are shown in the next screenshot.

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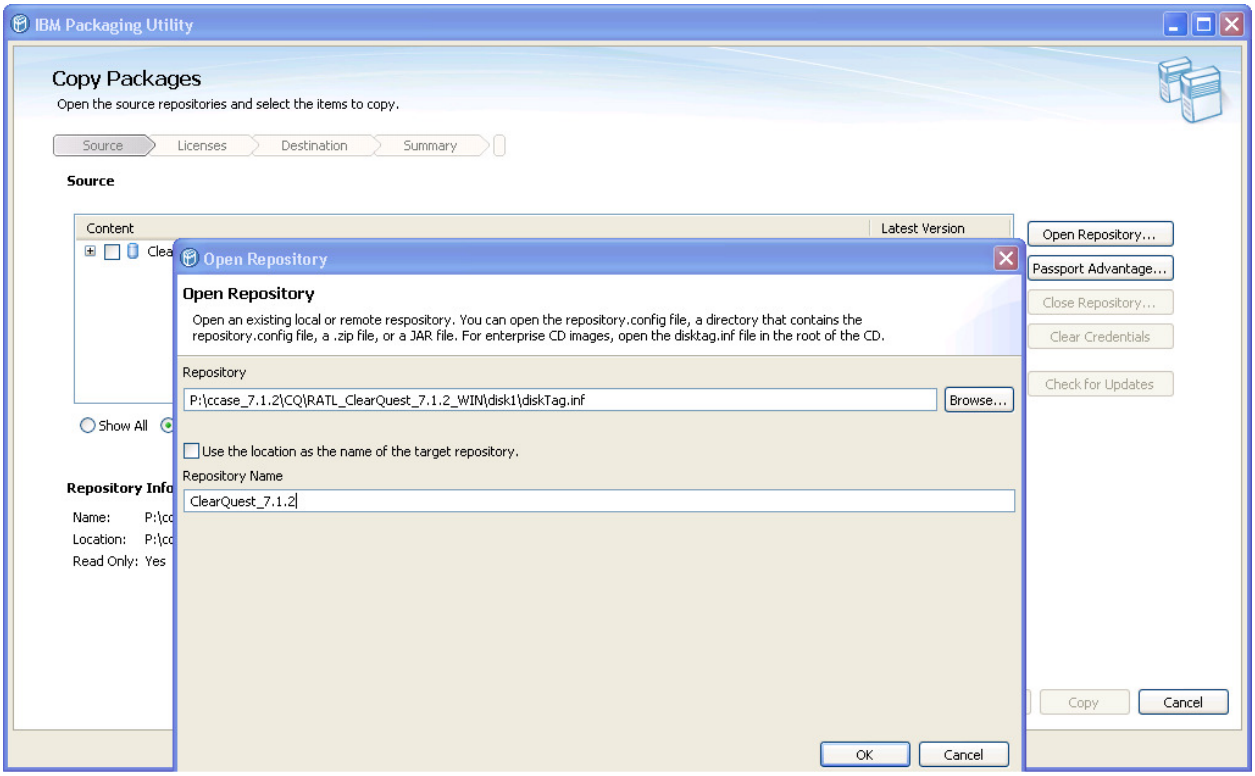

Here we are adding a ClearQuest 7.1.2 repository to our package creation process. Navigate to diskTag.inf or other repository description file and select it. Note that by default, the repository name as it will be displayed in Packaging Utility will be the same as the repository directory path. This can be changed, as shown above, by unchecking the box: "Use the location as the name of the target repository", and then entering a preferred name.

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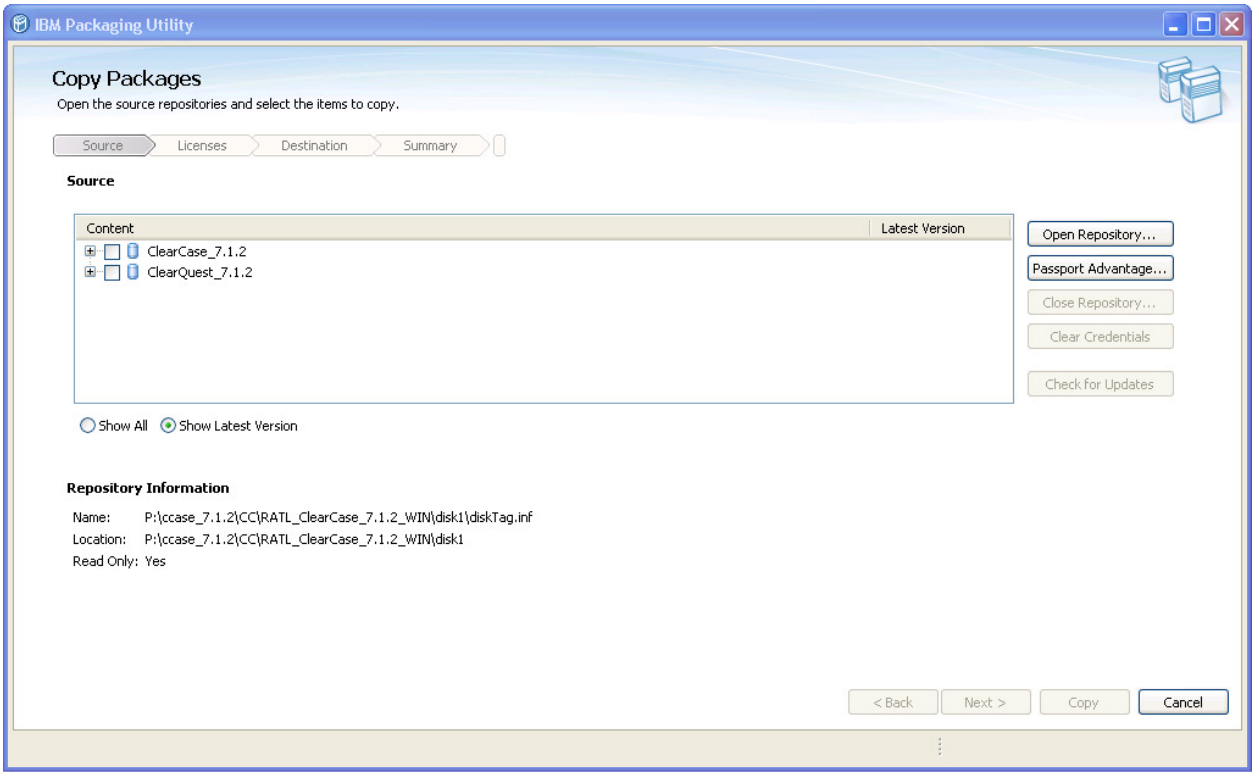

Here is how PU looks after adding both ClearCase and ClearQuest. Notice that ClearCase is selected in the central box, and Repository Information for ClearCase is displayed in the lower part of the panel. Clicking on ClearQuest will display similar information for that repository.

We now need to talk a bit about fixpacks for both ClearCase and ClearQuest. Right now we have the base 7.1.2 version repositories, but patches are available for this. There are two ways to include the patches in the new install package we are creating. The first way is to download the fixpacks for both ClearCase and ClearQuest and include these in the list of repositories. We have done this for this example.

The other way is to expand each hierarchy in the list of repositories, then click on version (7.1.2.00), then click on Check for Updates. You will need to do this for both ClearCase and ClearQuest. If you don't want to download the fixpacks, and you have confidence in your internet connection not to glitch during the package creation, you can elect to do this. We did something similar with the previous install of Packaging Utility, where we picked up the latest patches to install.

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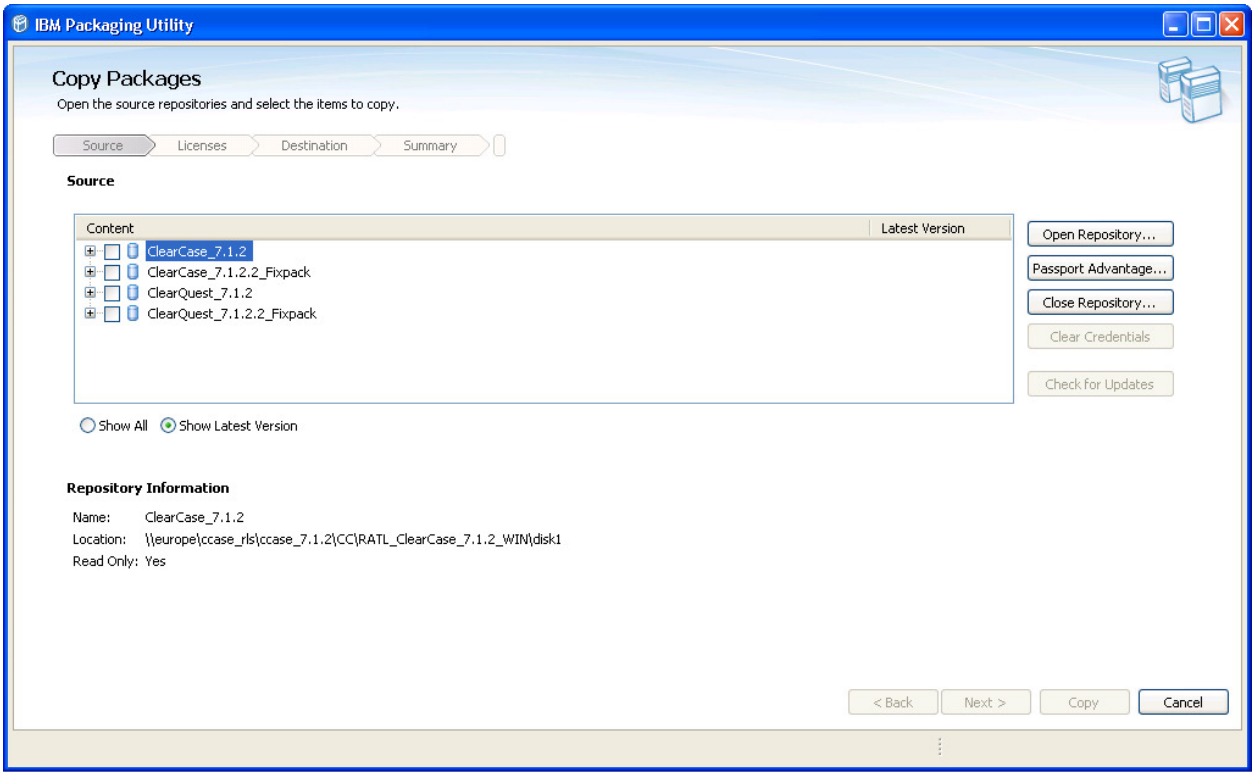

Here we show the fixpacks for both ClearCase and ClearQuest after then have been added to list of repositories to be included in the new install package.

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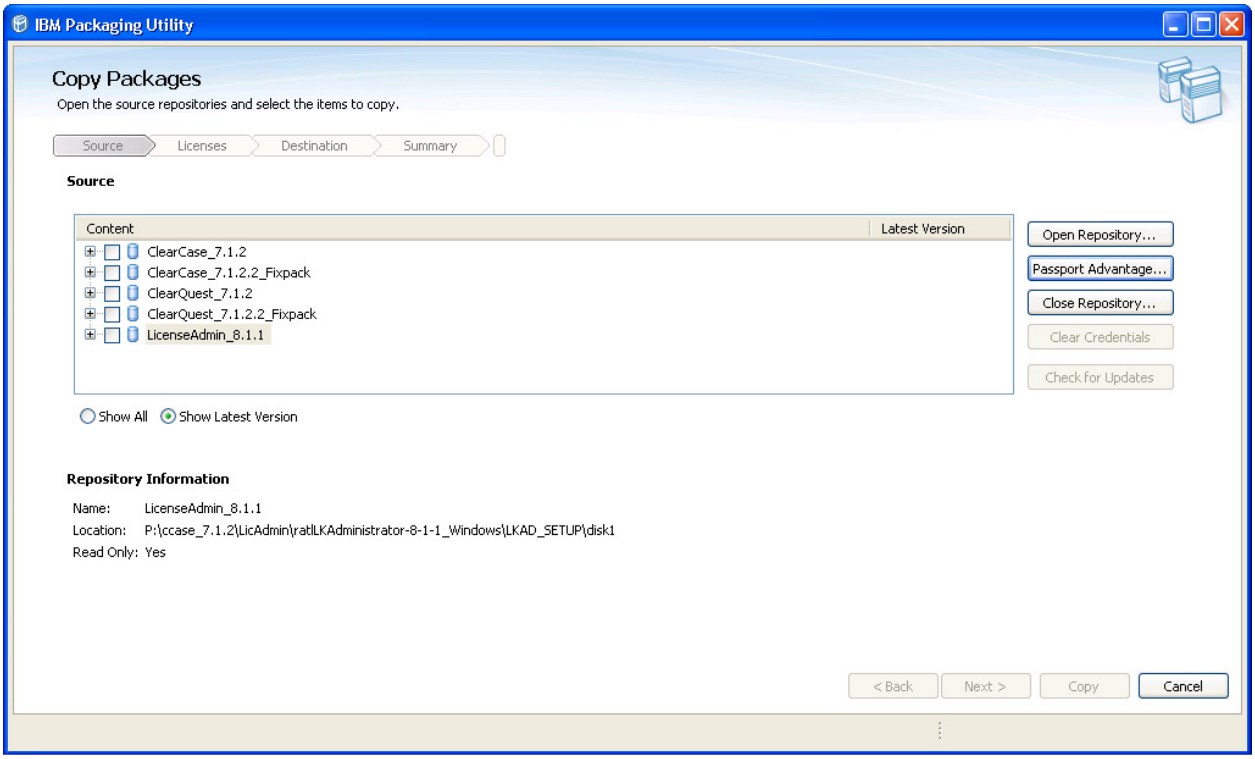

We have now added the License Key Administrator to the list of repositories. Note first the Repository information as the LKAD is selected. Then also note that Next is grayed out. We will need to check the boxes of all the repositories we choose to include in the new install package. This is shown in the next screenshot.

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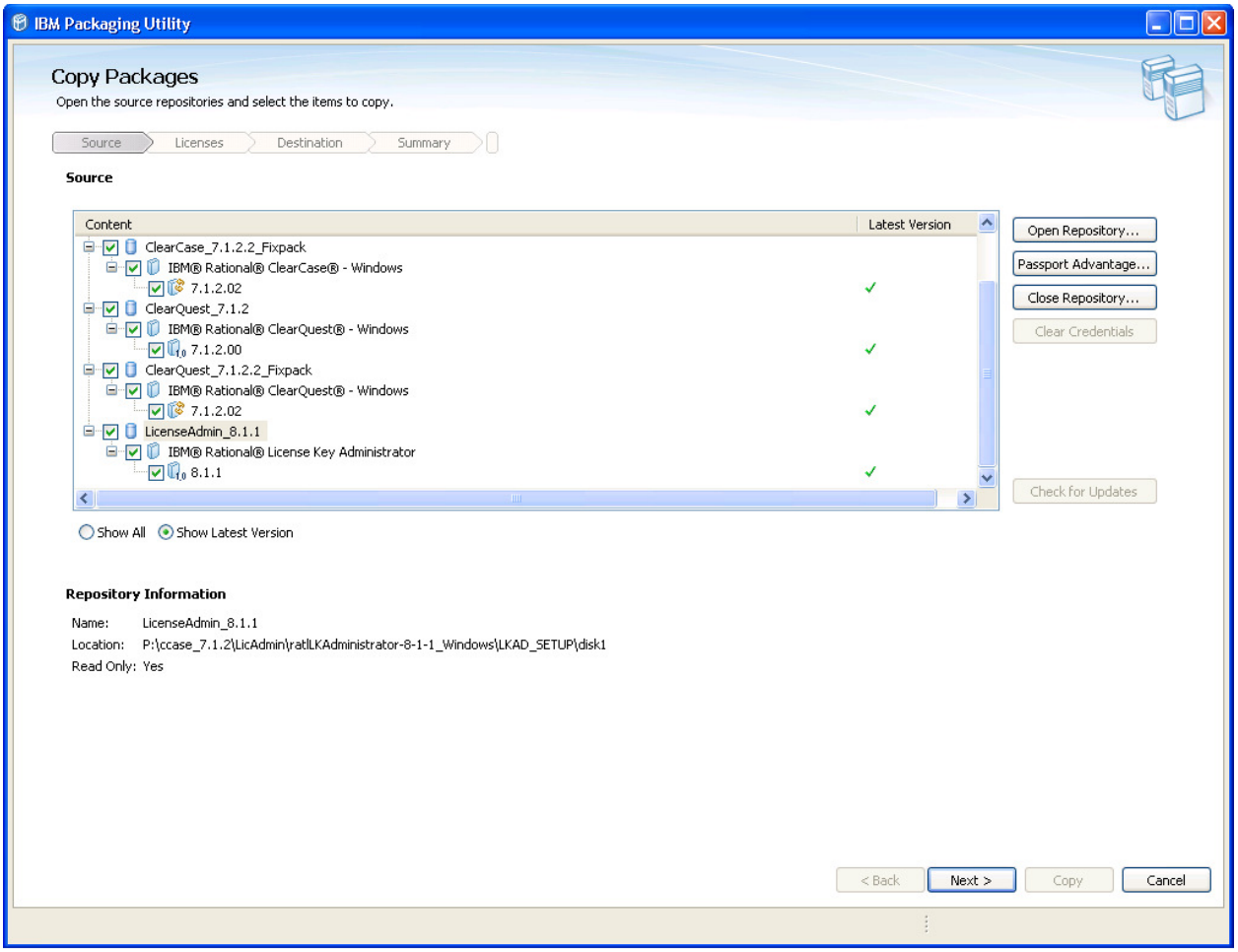

Here we have selected all five repositories to be included in the new install package. Click Next to continue.

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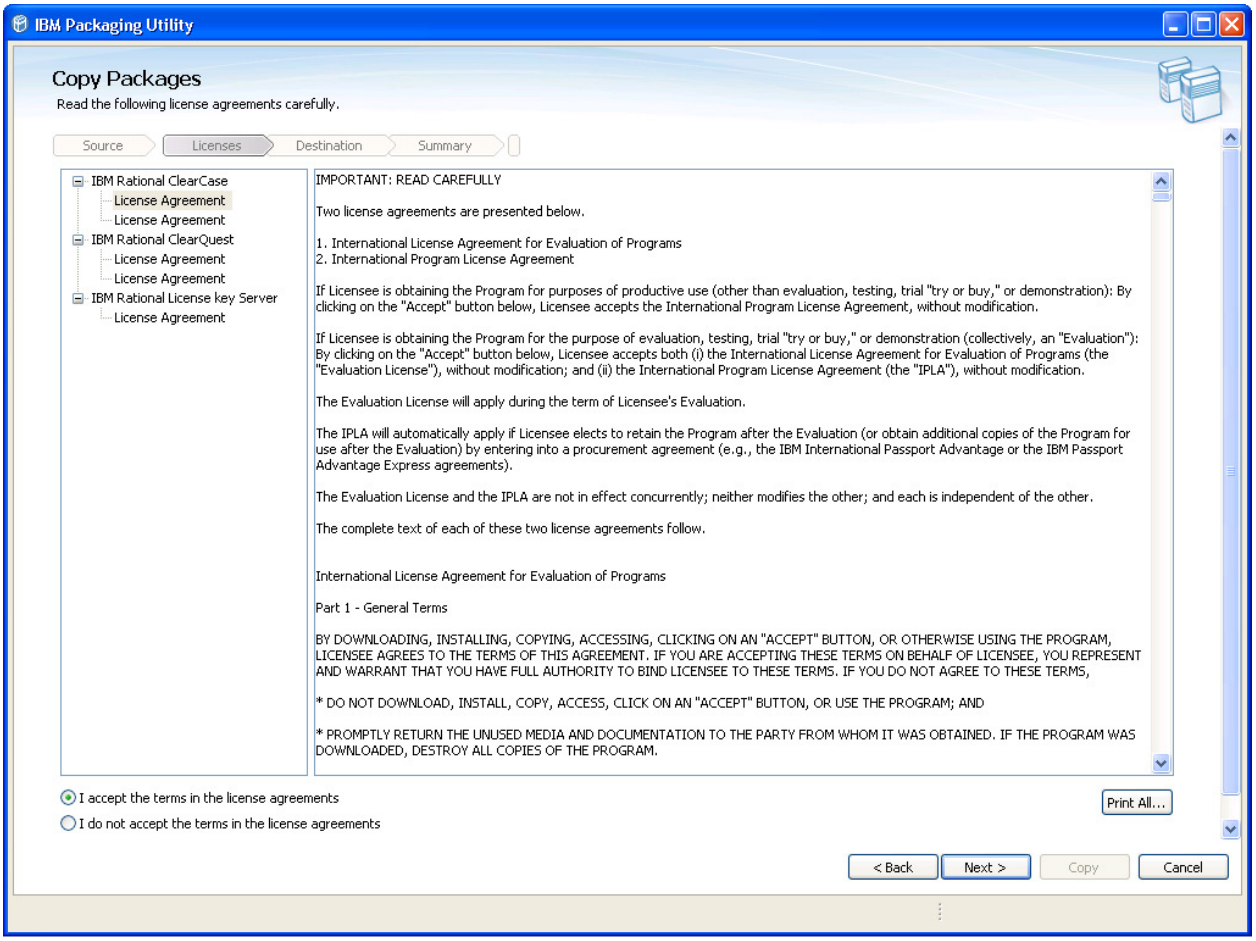

Accept the license agreement and click Next.

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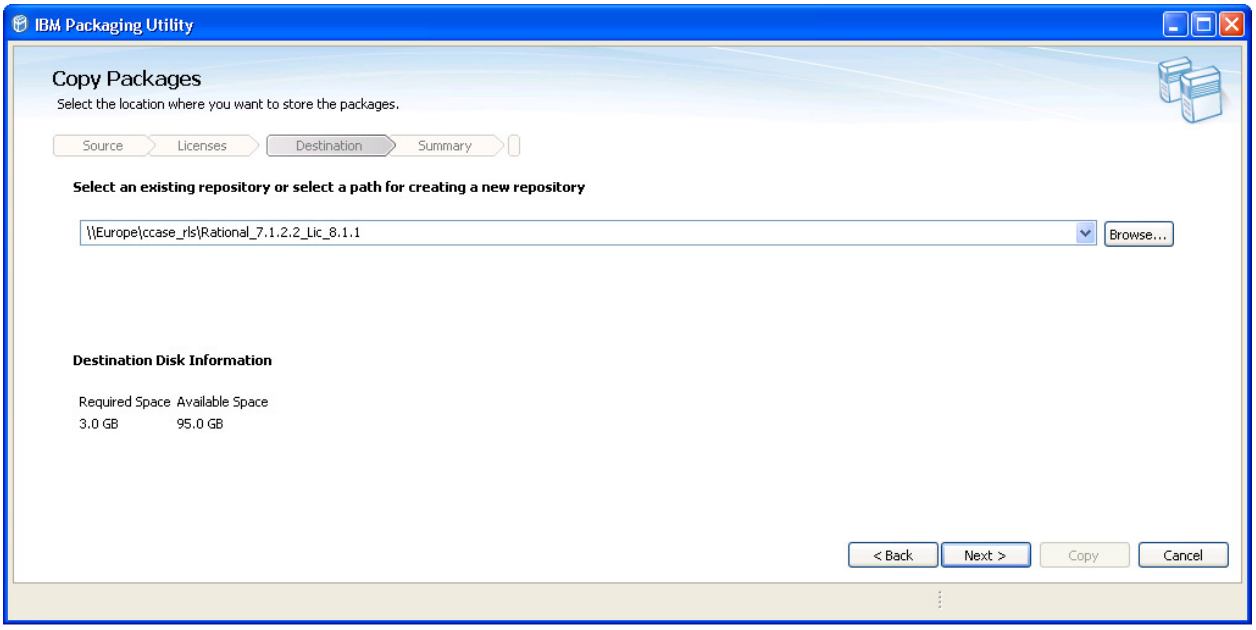

Point Packaging Utility to the location where the new install package will be created. Then click Next.

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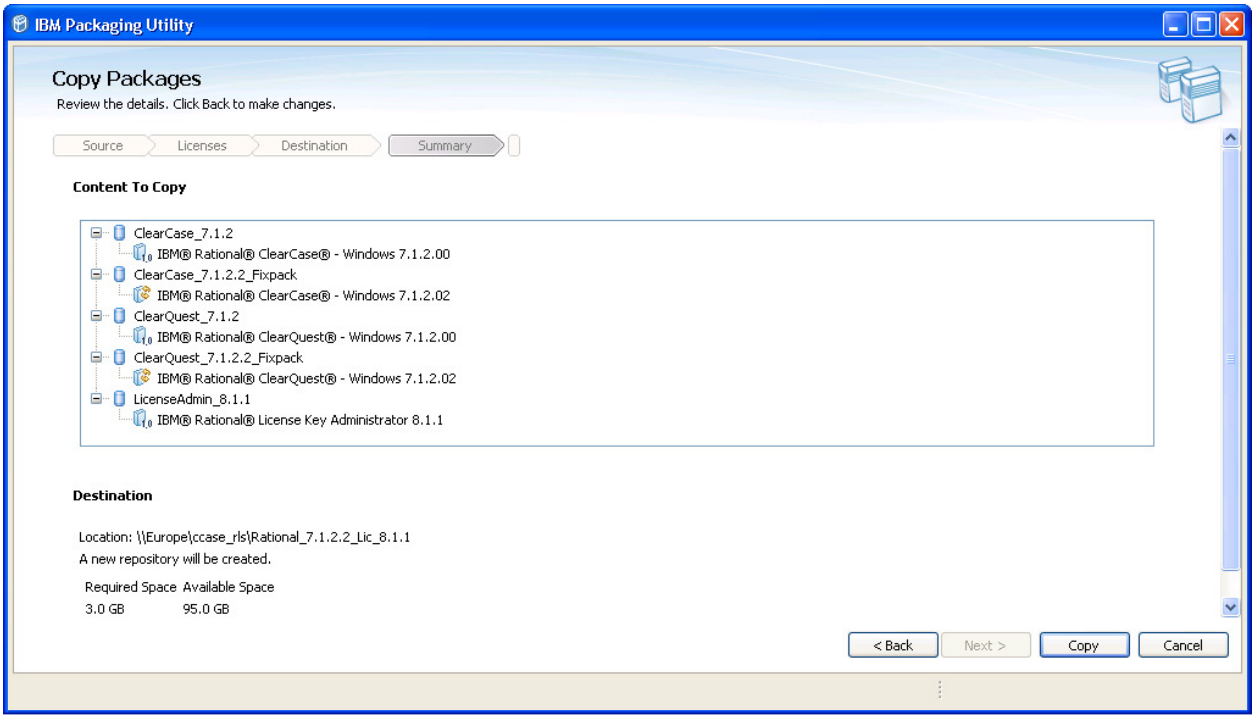

As with Installation Manager previously, we are now ready to go. Click Copy to initiate the creation of the new install package.

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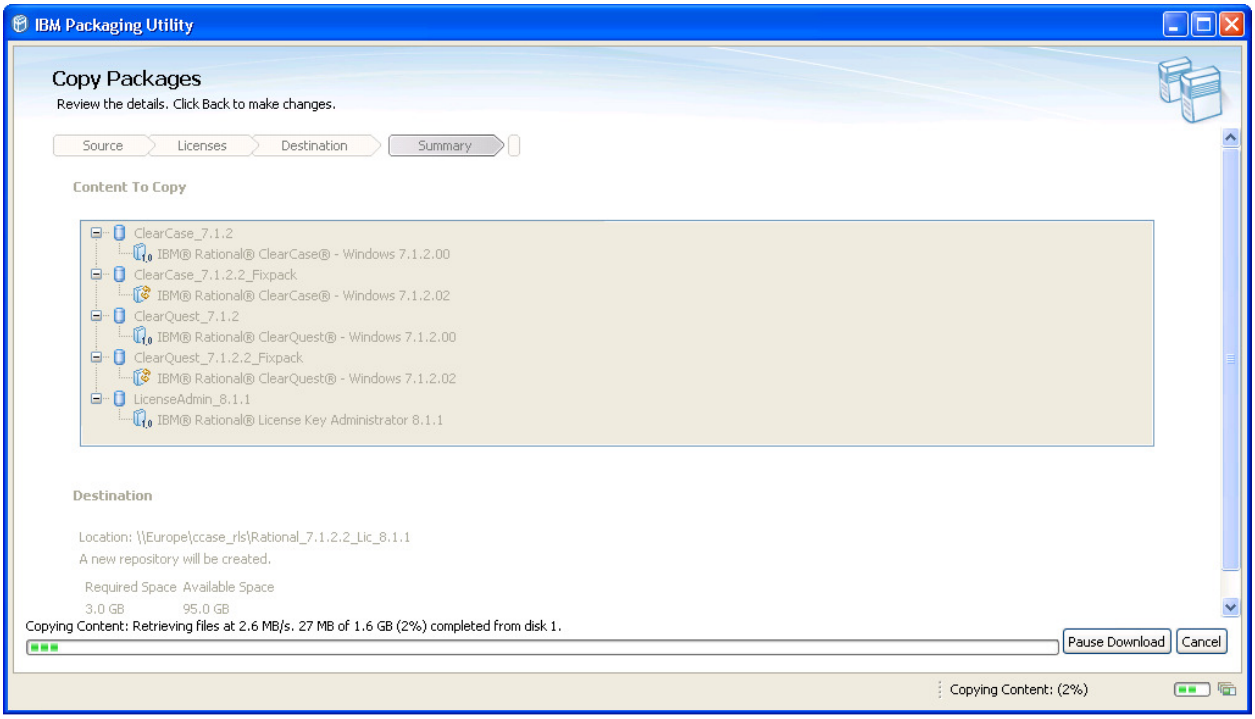

The package creation is now proceeding. Unless there is a reason to Pause or Cancel the action, we will need to wait for it to complete.

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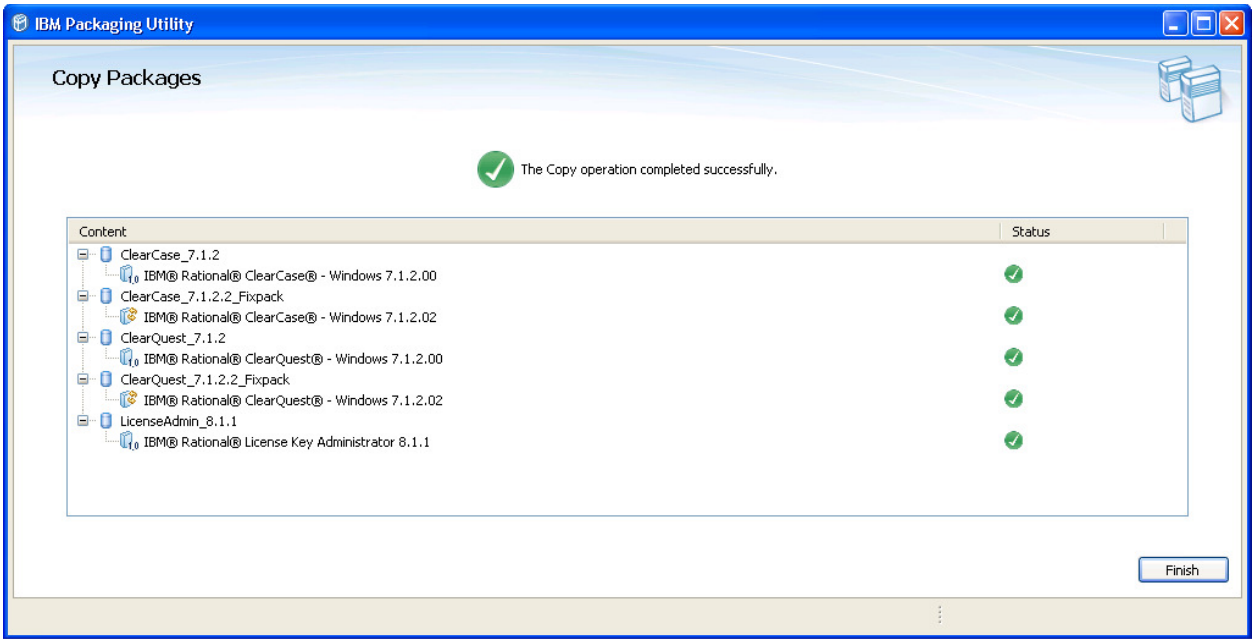
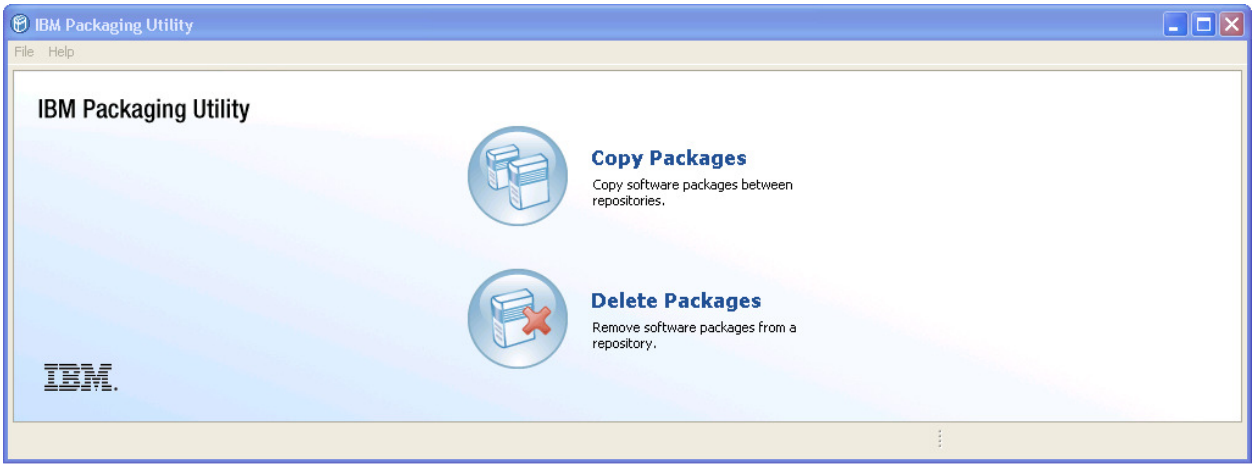


All five repositories have been combined into a new installation package. Clicking Finish takes you back to the start point where we are ready to process another repository, if needed.



Unless there is a need to create another package, Packaging Utility can now be closed. Our next step will be to install from the package that we have just created. Go ahead and launch Installation Manager, shown in the next screenshot.

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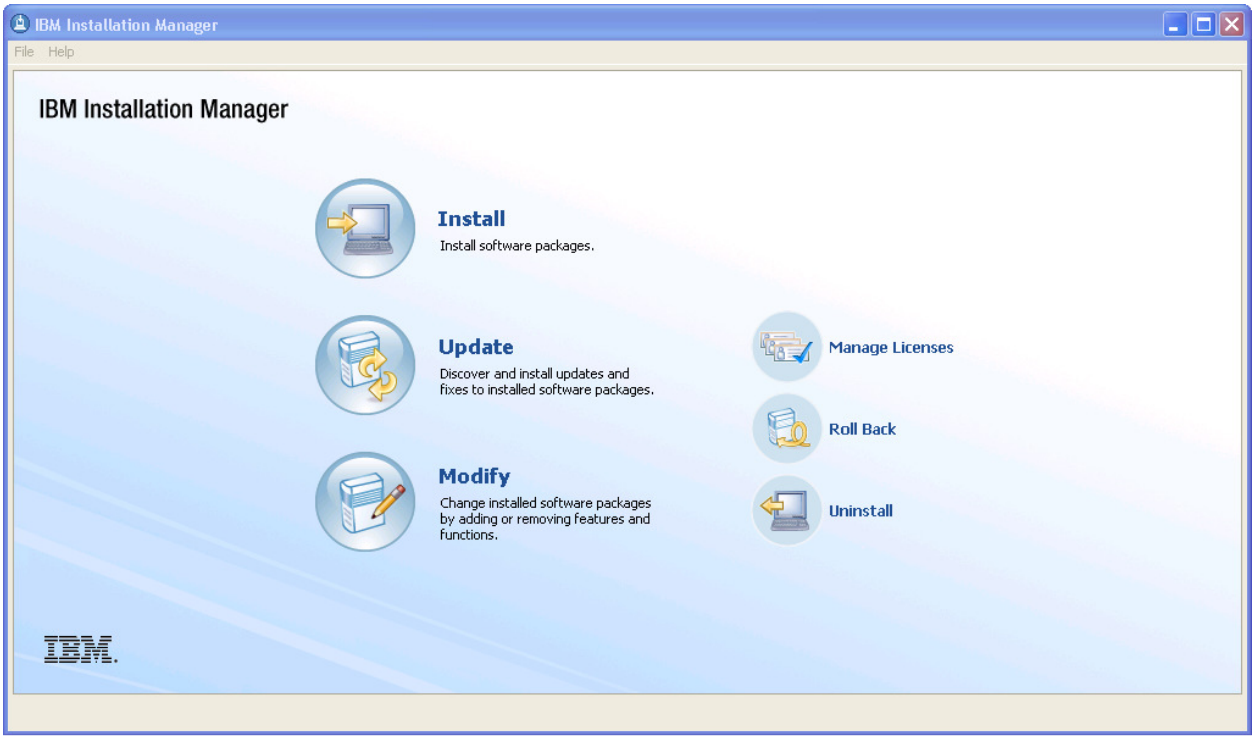

After launching IM, pull down File -> Preferences and select Repositories in the left hand panel. This is shown in the next screenshot.

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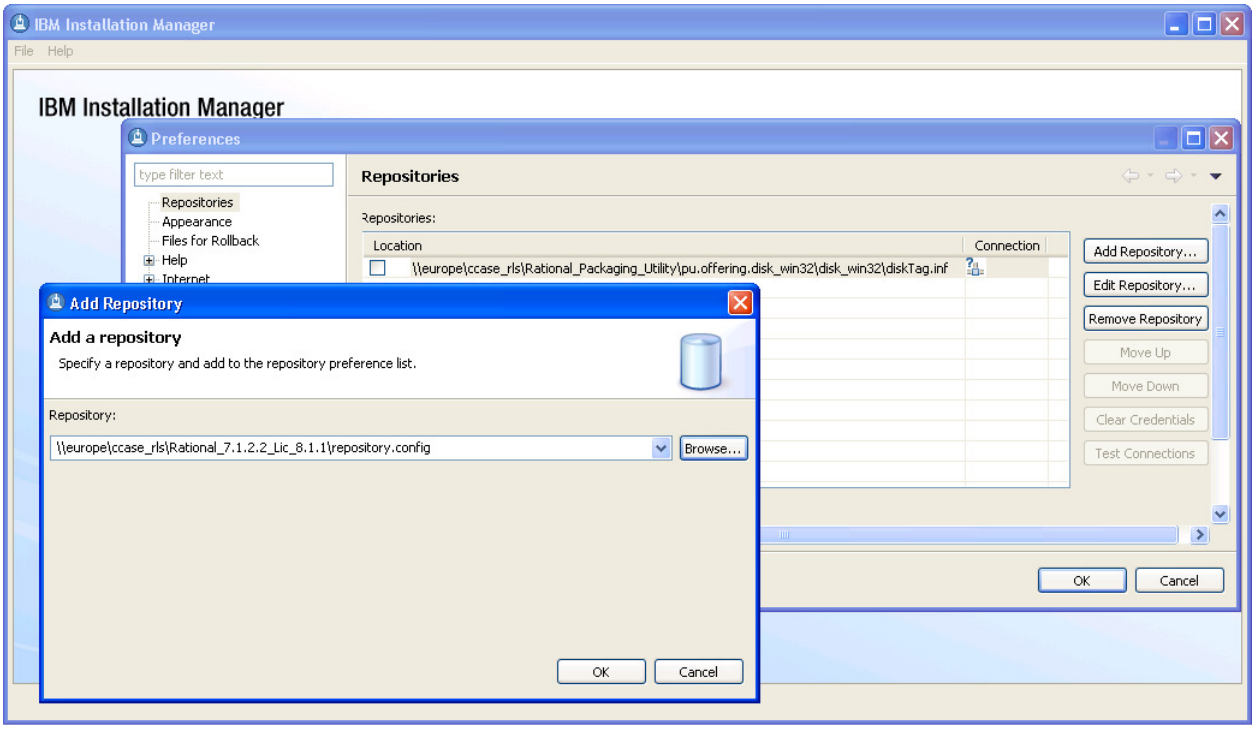

Here we have added the installation package we just created with Packaging Utility. Notice that the name of the description file is repository.config.

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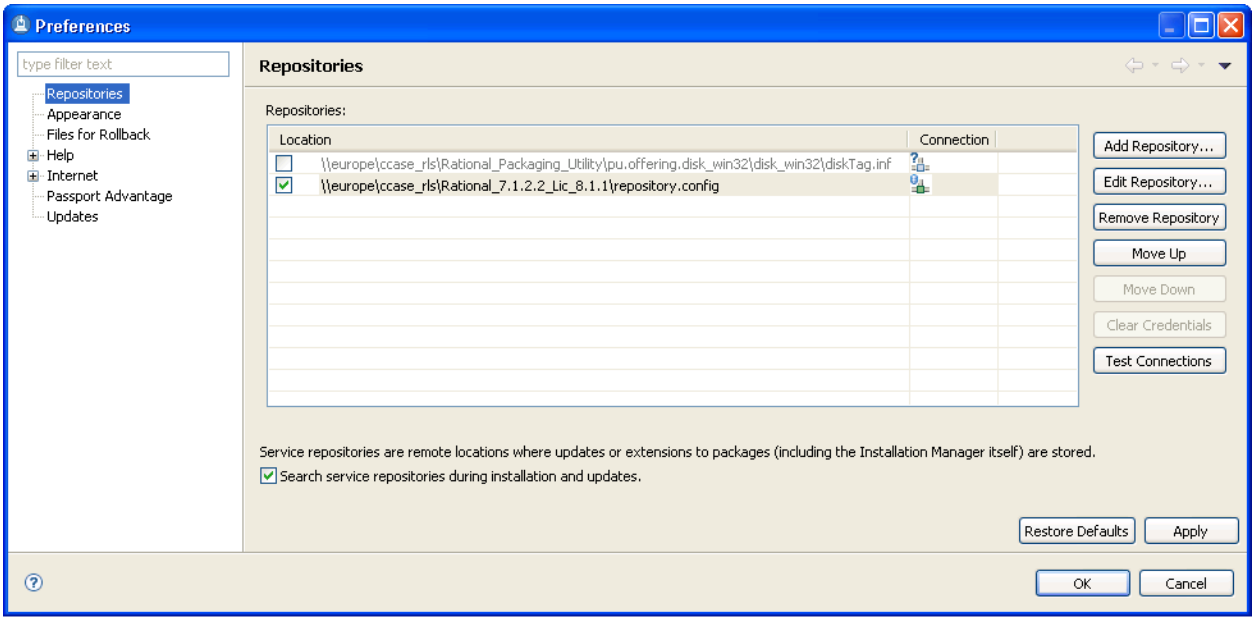

As you can see in the list of repositories, we are going to now install the package containing ClearCase and ClearQuest 7.1.2.2 and License Key Administrator 8.1.1. We have checked the box for that repository, and not checked the box for Packaging Utility (since we have already installed PU).

Click OK, which will take us back to the originally launched IM panel.

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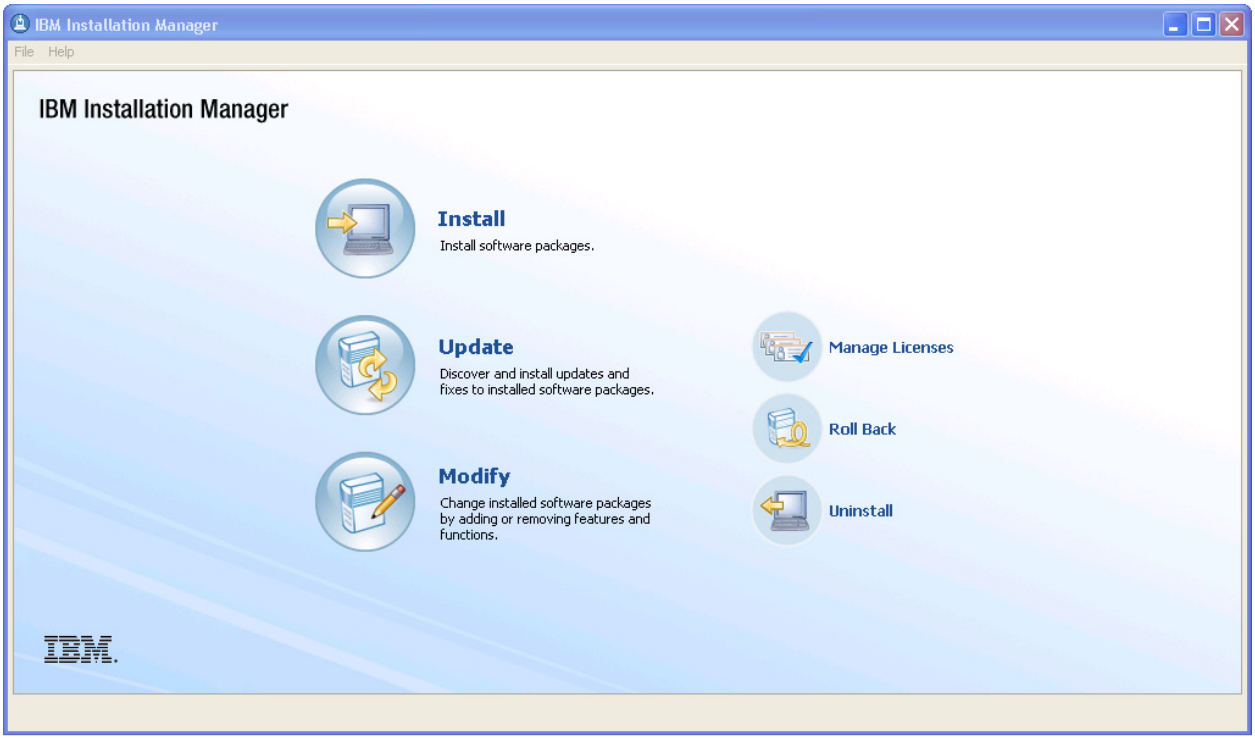

Now that we have the repository specified in Installation Manager, click on Install to begin. The results are shown in the next screenshot.

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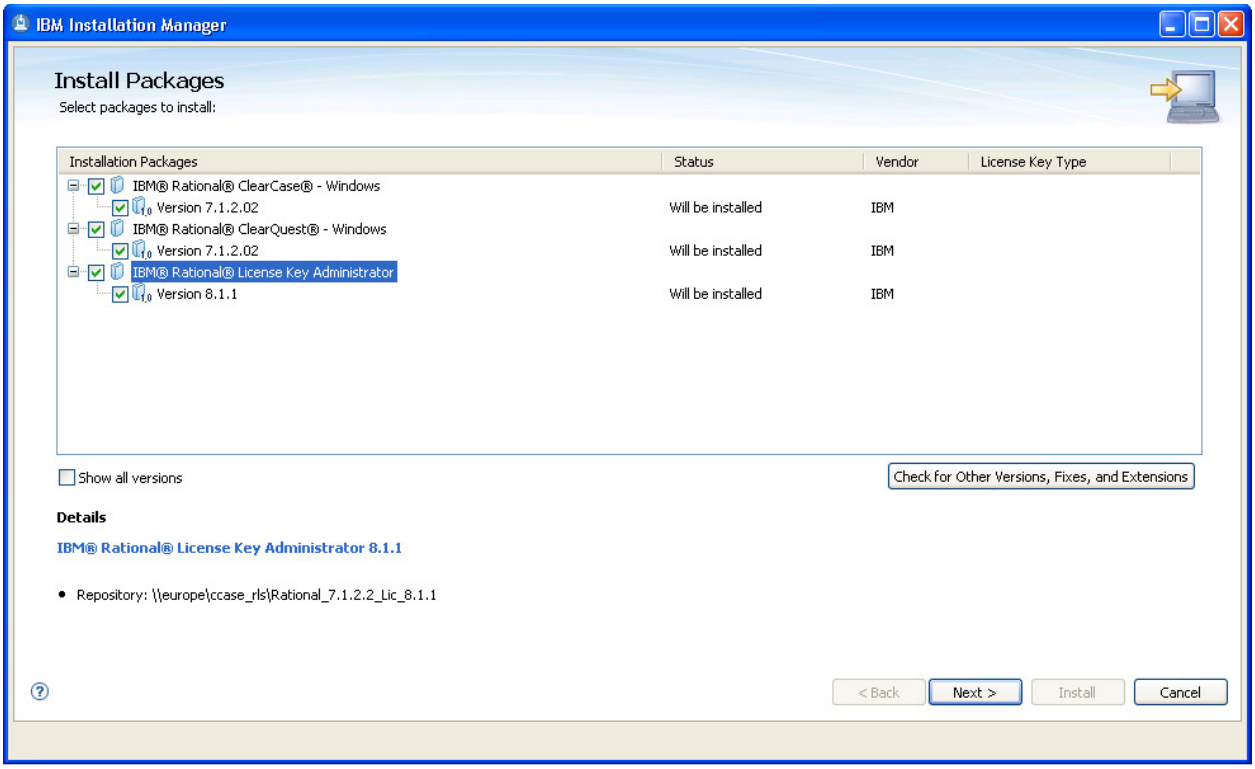

Check the boxes of ClearCase and ClearQuest, and License Key Administrator to install all tools. Click Next.

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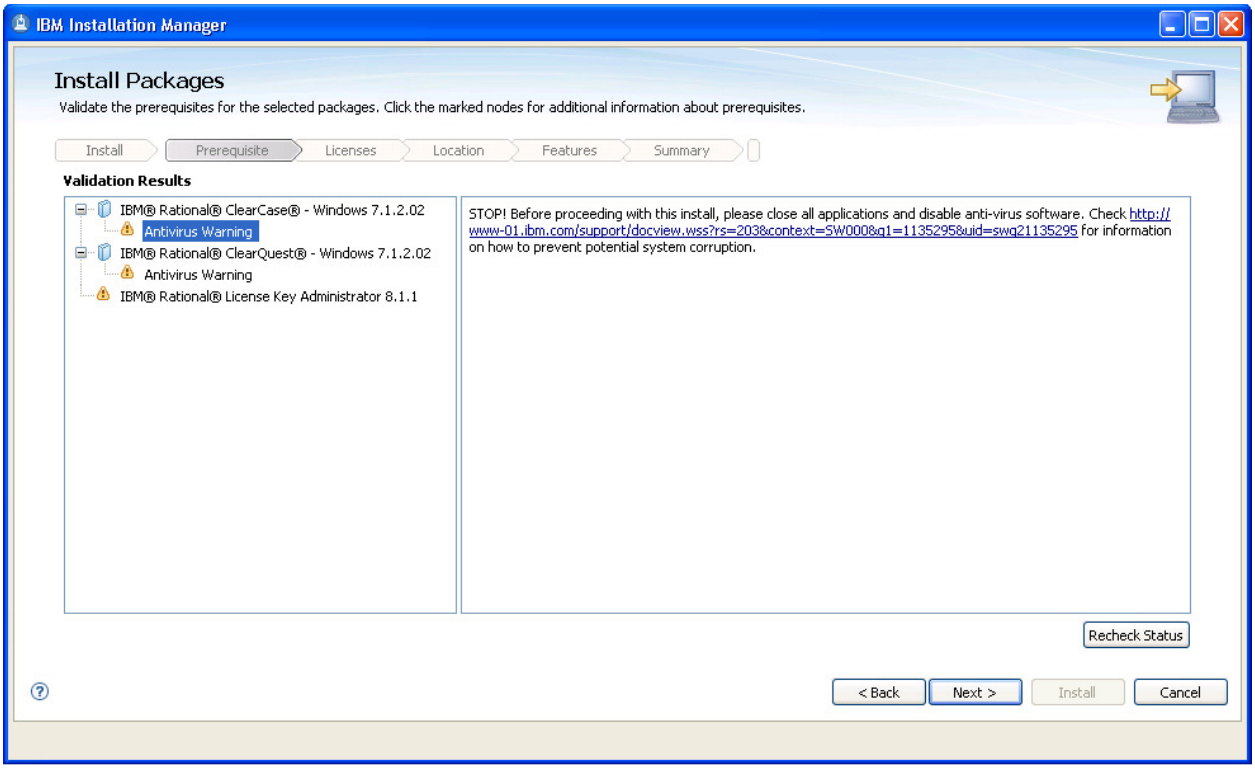

Take any needed steps to disable anti-virus software or close other applications, then click Next.

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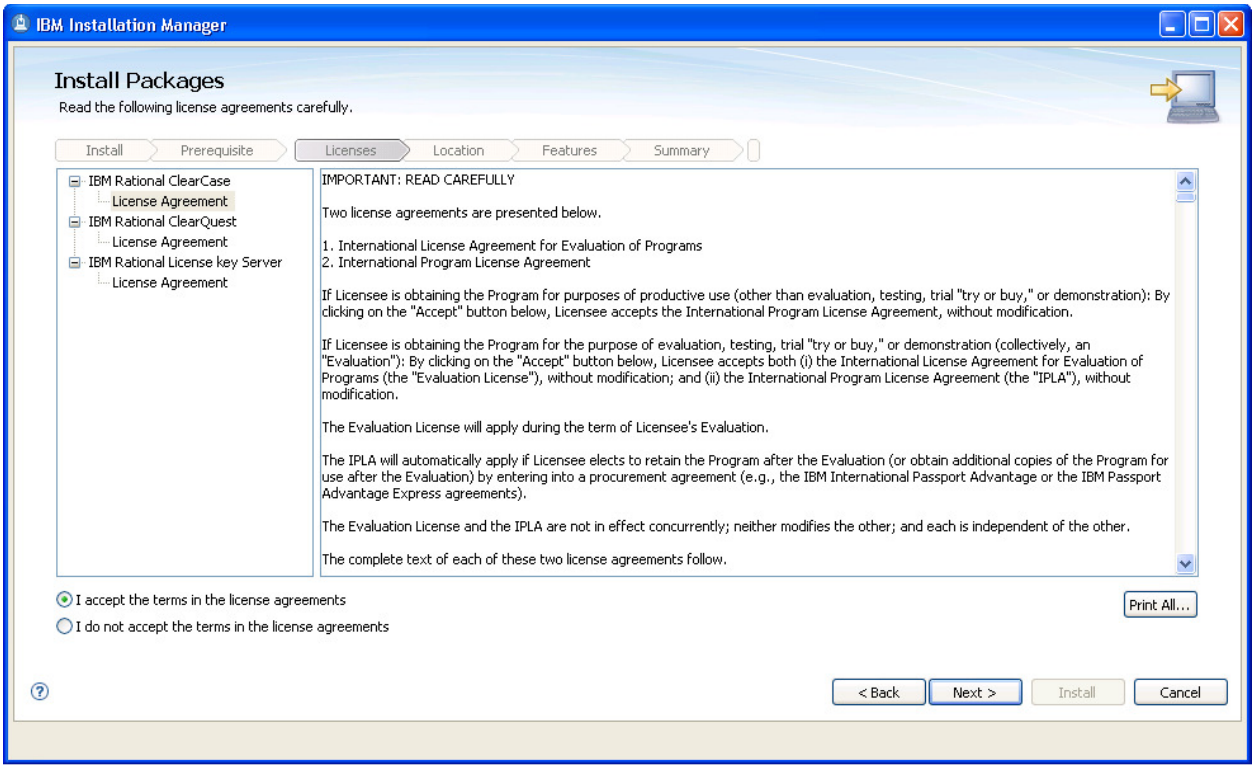

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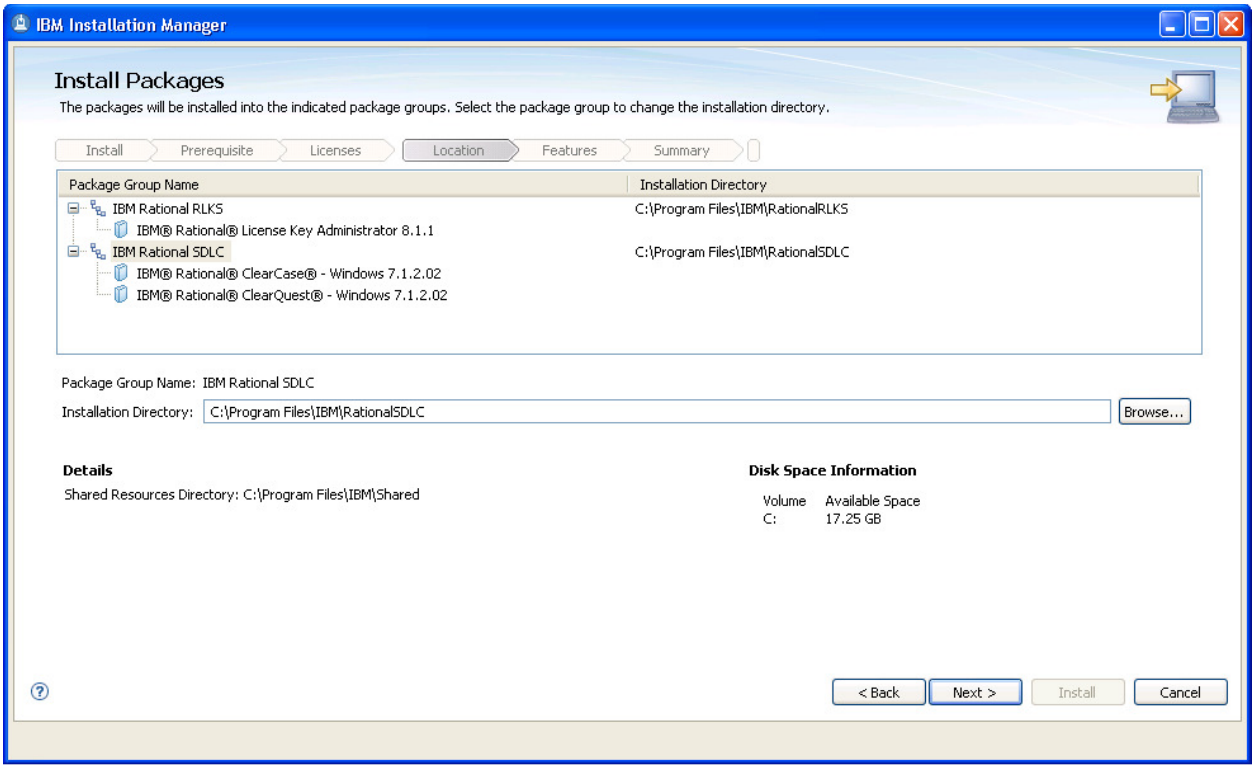

Unless you need to change the location of the install directory for either repository (SDLC or RLKS) go ahead and click Next.

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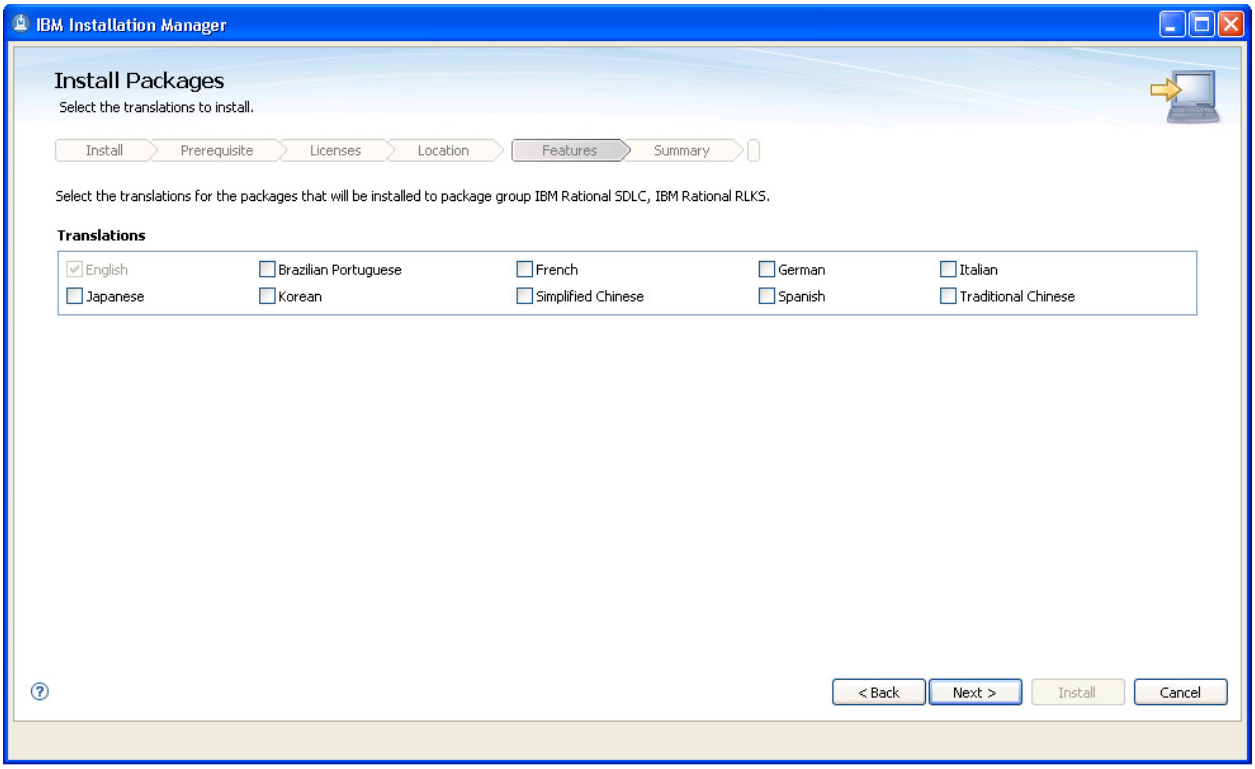

To accept English as the only required language, click Next.

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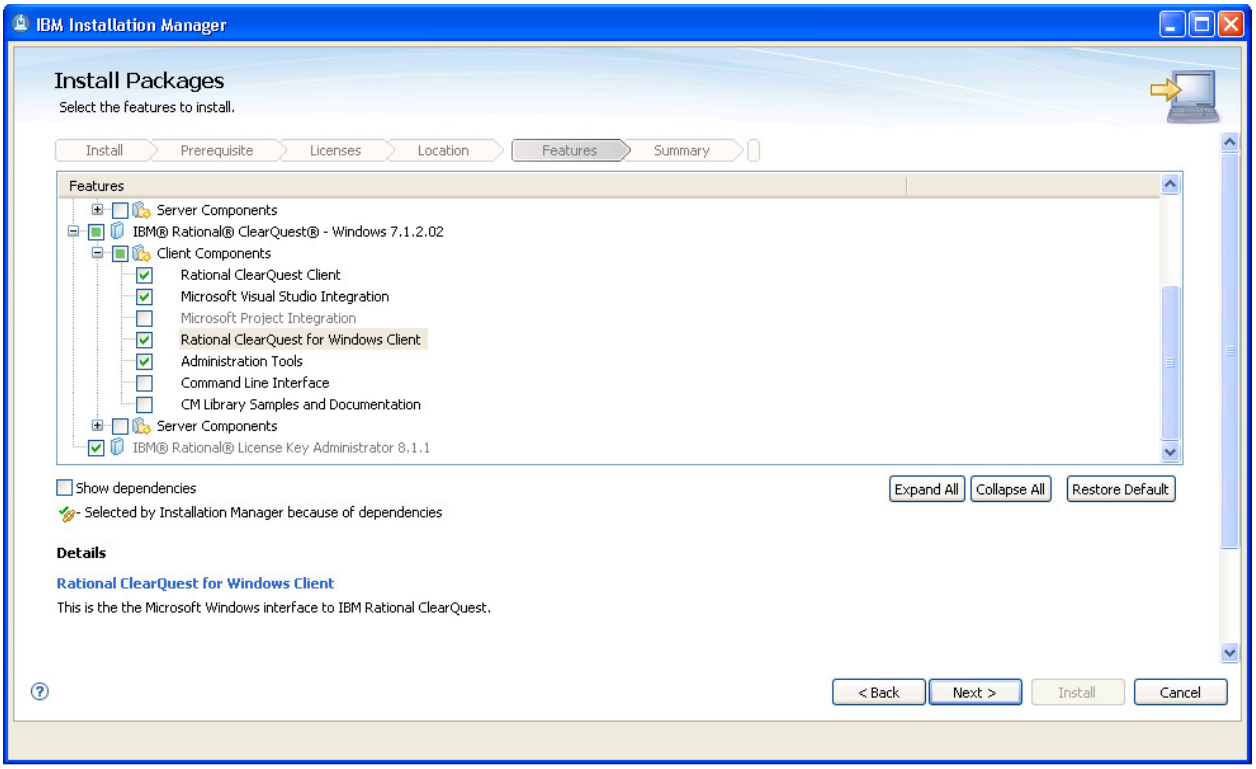

Here is where we have a chance to adjust what features of each software product will be installed. Expand the hierarchy and select what is needed. In our example above, we have elected to install the optional ClearQuest Windows Client, in addition to the default Rational ClearQuest Client (the Eclipse client). With ClearCase we also selected the Visual Studio Integration option.

We are now ready to move through the next set of installation panels which require input to correctly configure first ClearCase and then ClearQuest. We begin with the next screenshot.

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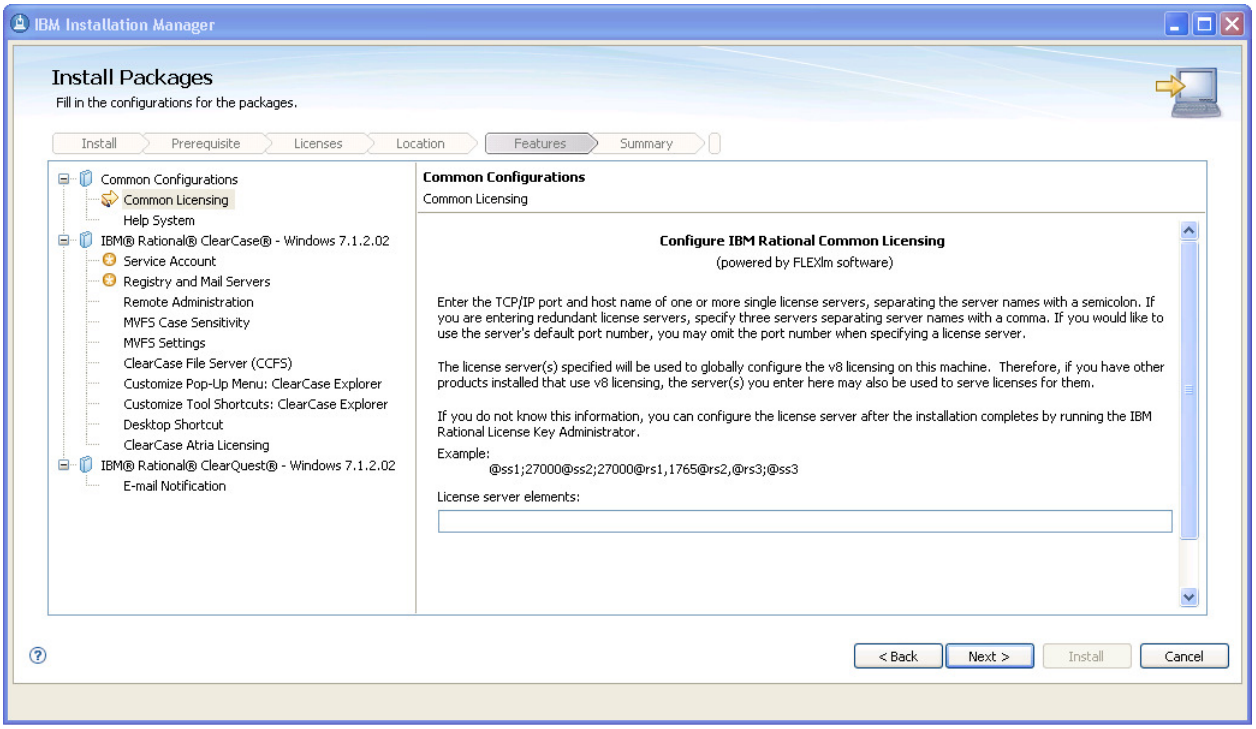

Note that all three products are shown in the configurations panel on the left. Begin by filling in the license server information for your site and click Next. As we move through these panels, note how each completed configuration displays a green checkbox in the left hand panel.

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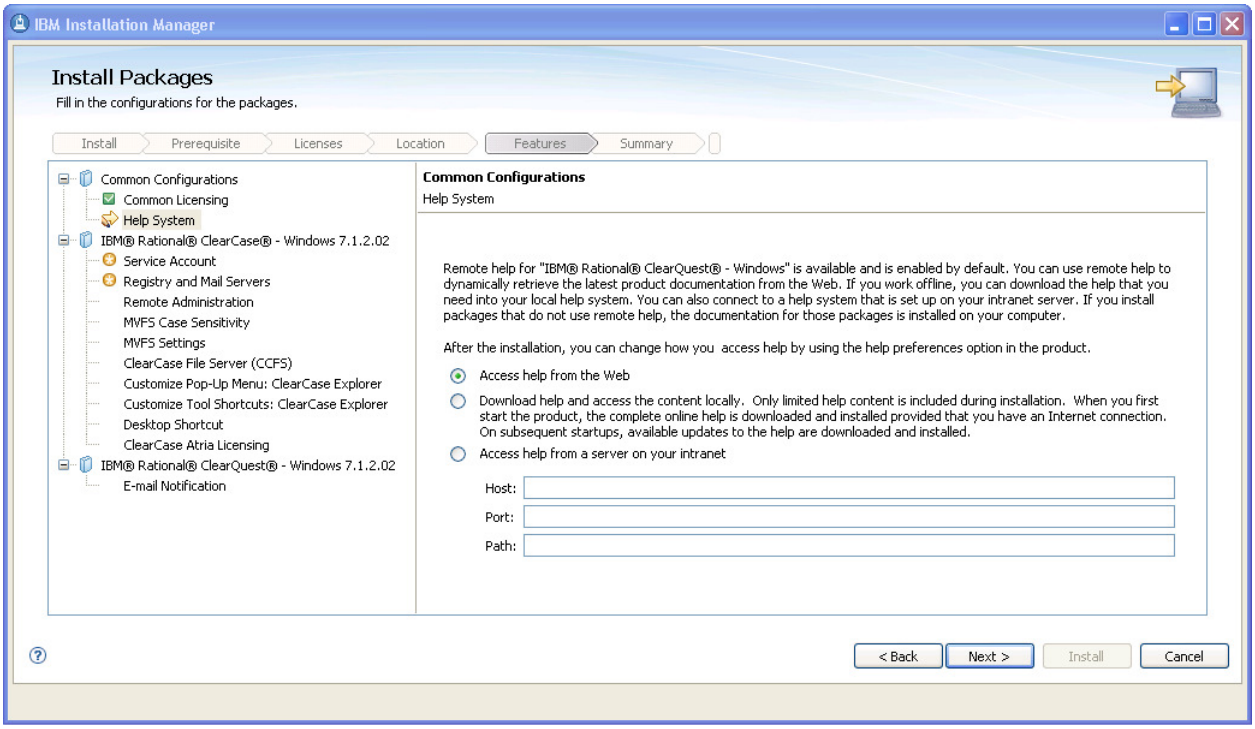

Unless you have a different preference for accessing the Help documentation, click Next here to get this information from the internet.

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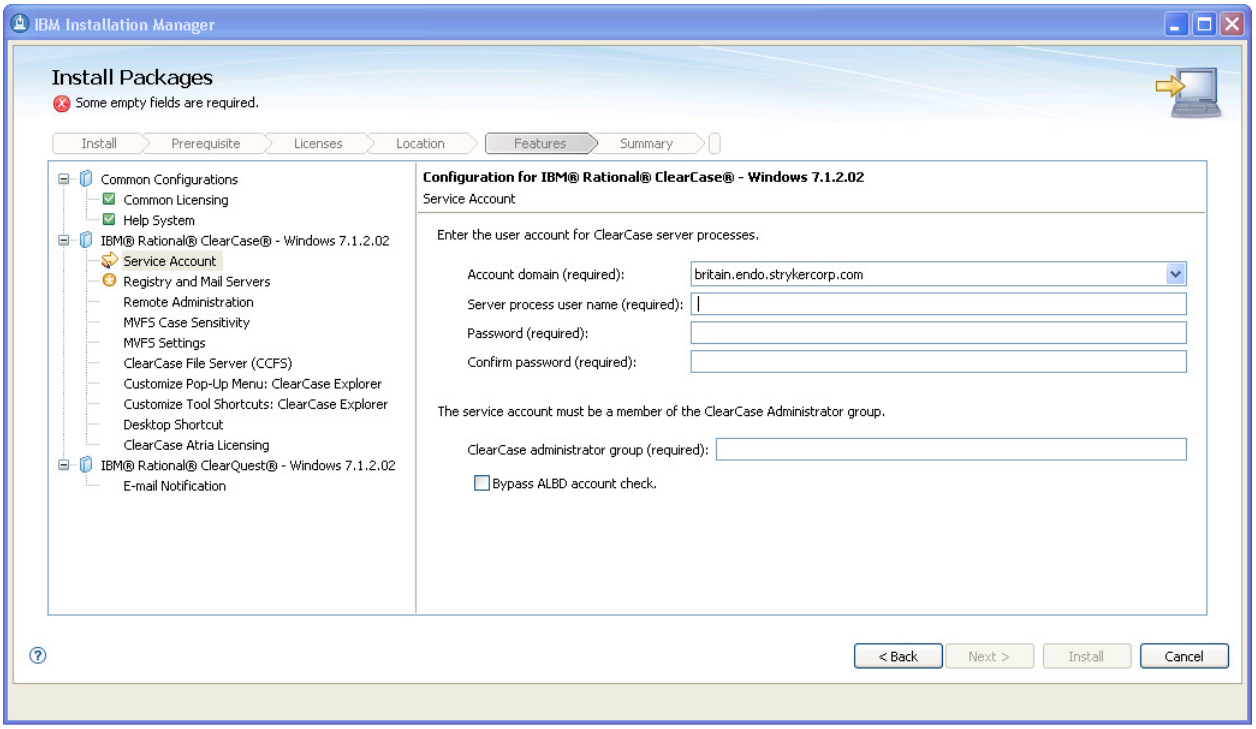

Enter the correct information for ClearCase domain, server process, password, and administrator group. After this is authenticated, the Next button will become un-grayed. Click Next.

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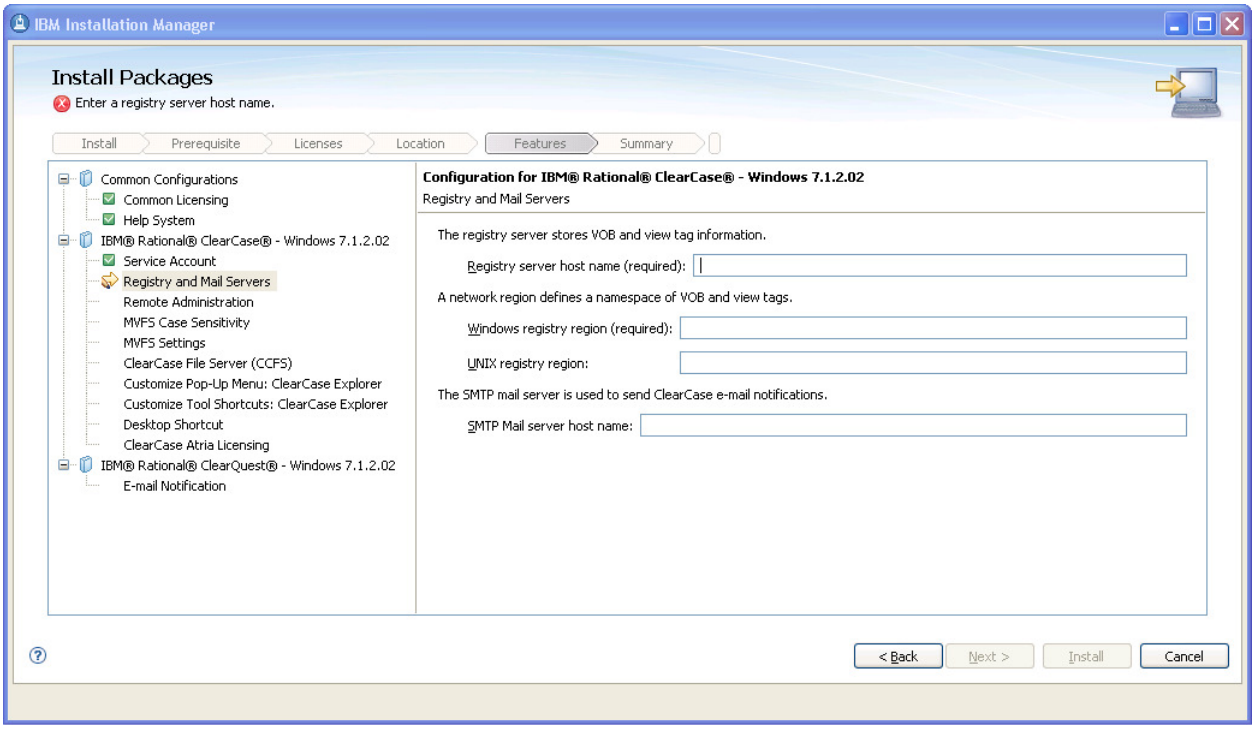

Enter the ClearCase registry server, registry regions, and mail server host. Again, the Next button will become un-grayed after these are correctly entered.

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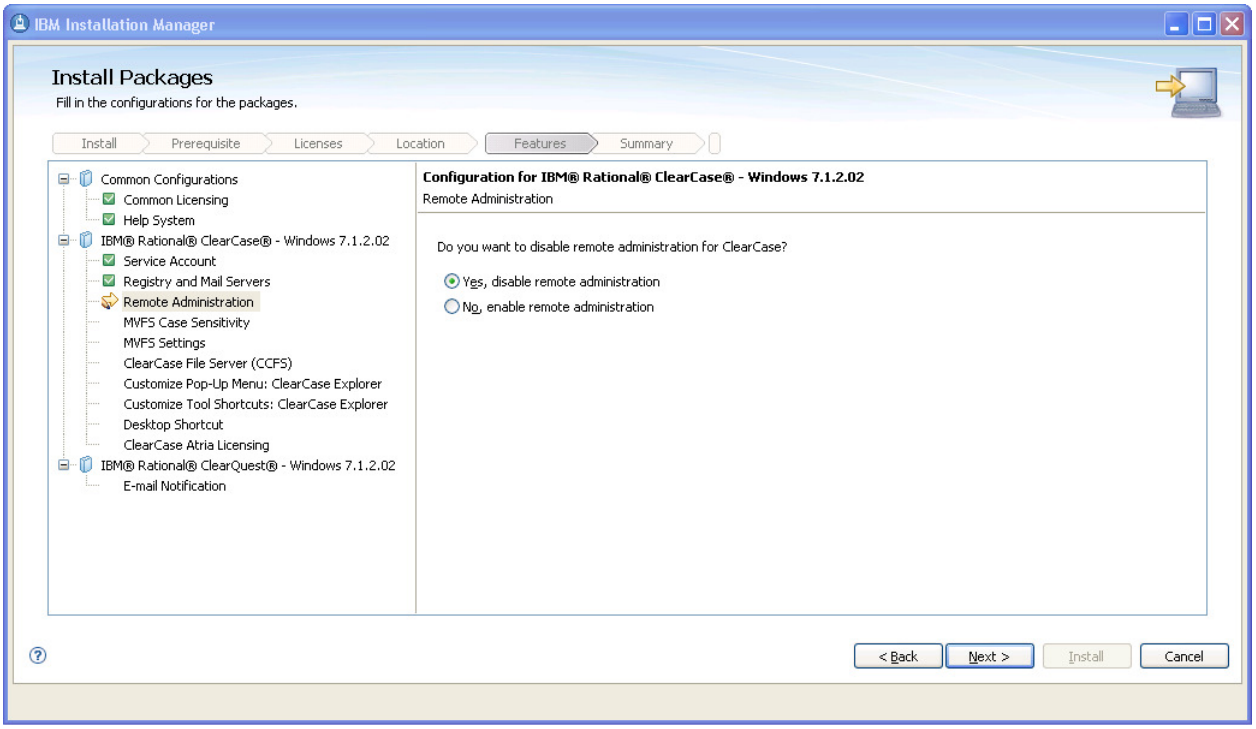

Make your selection regarding remote administration and click Next.

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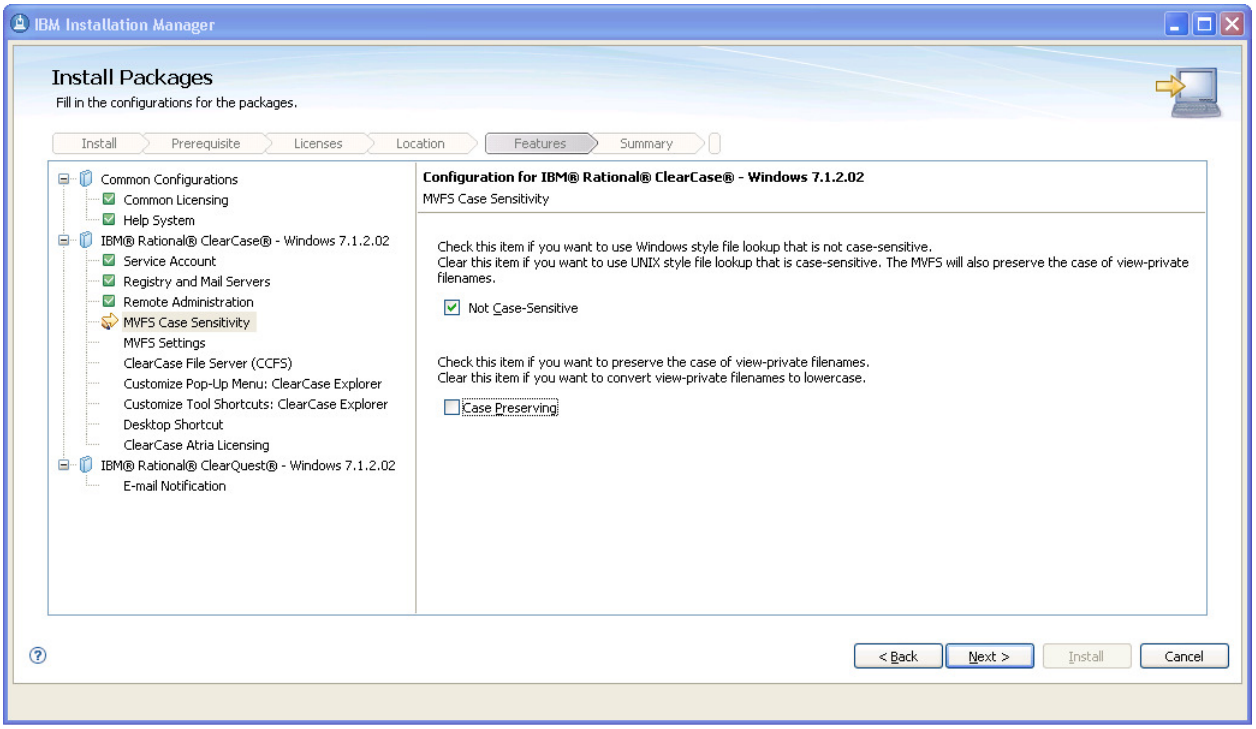

Configure MVFS case sensitivity and click Next.

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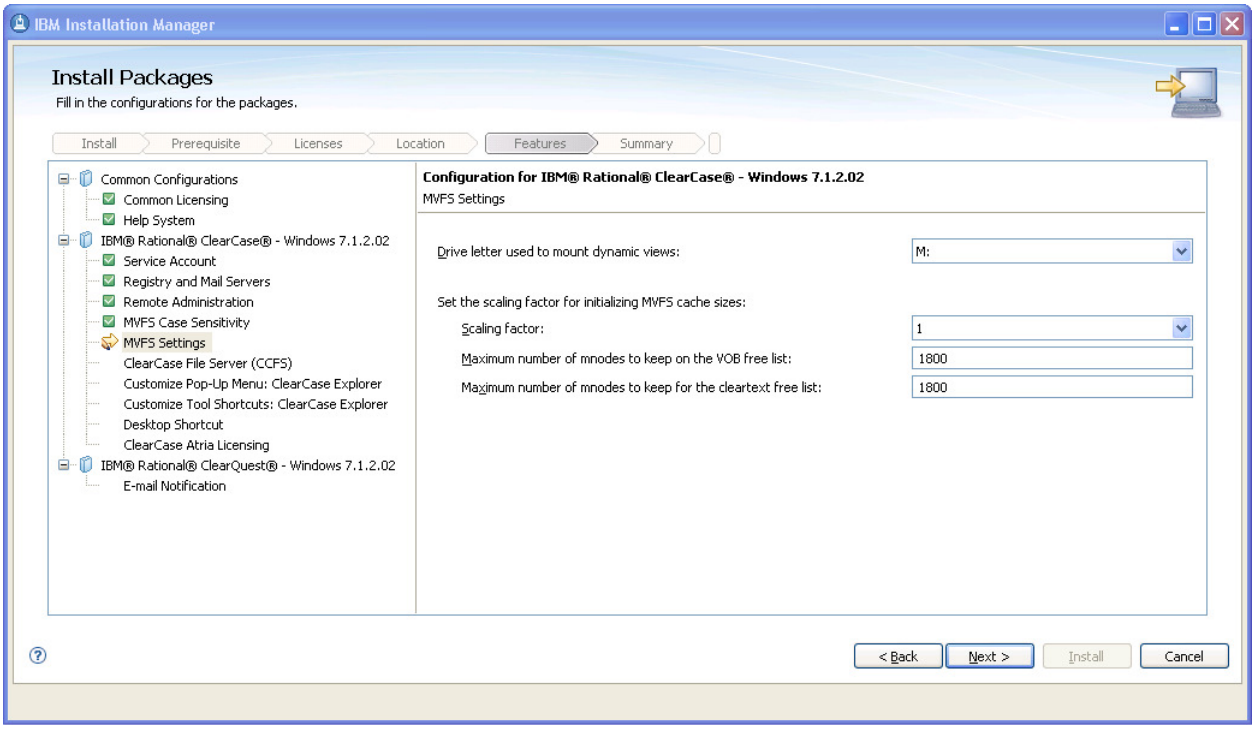

Accept the default MVFS settings, or change them, and click Next.

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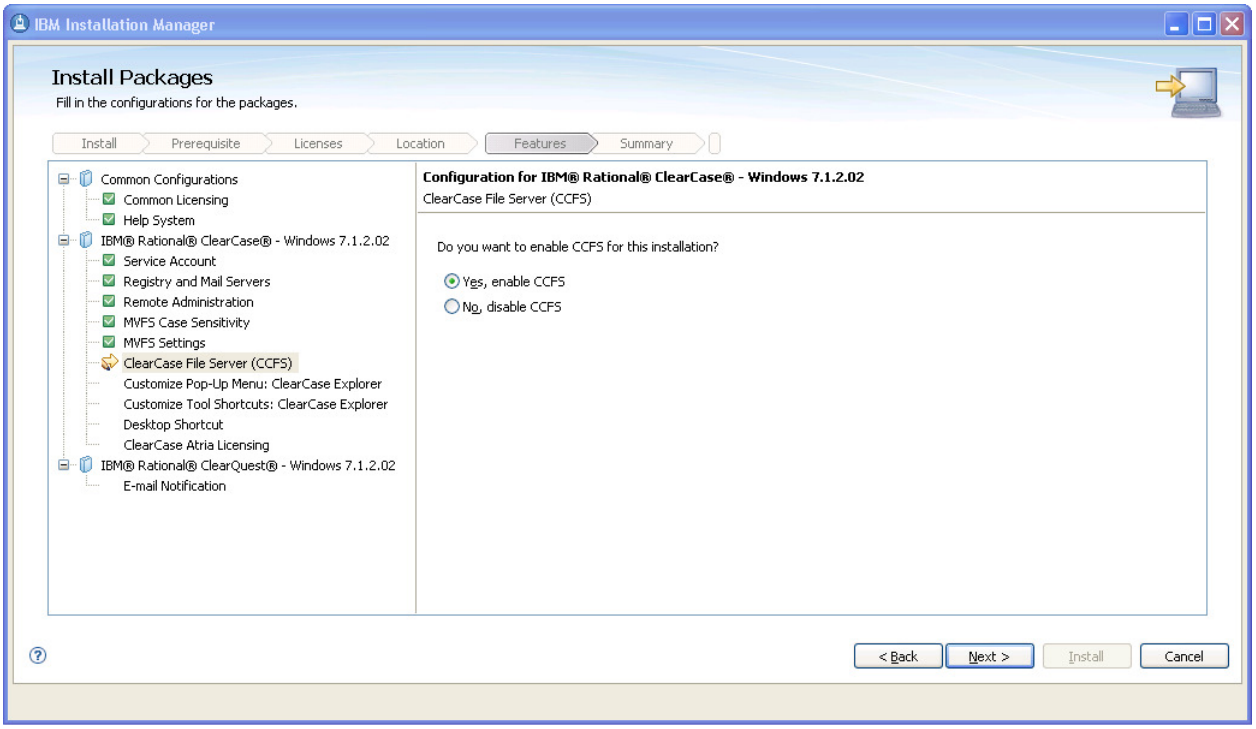

Configure CCFS for your site and click Next.

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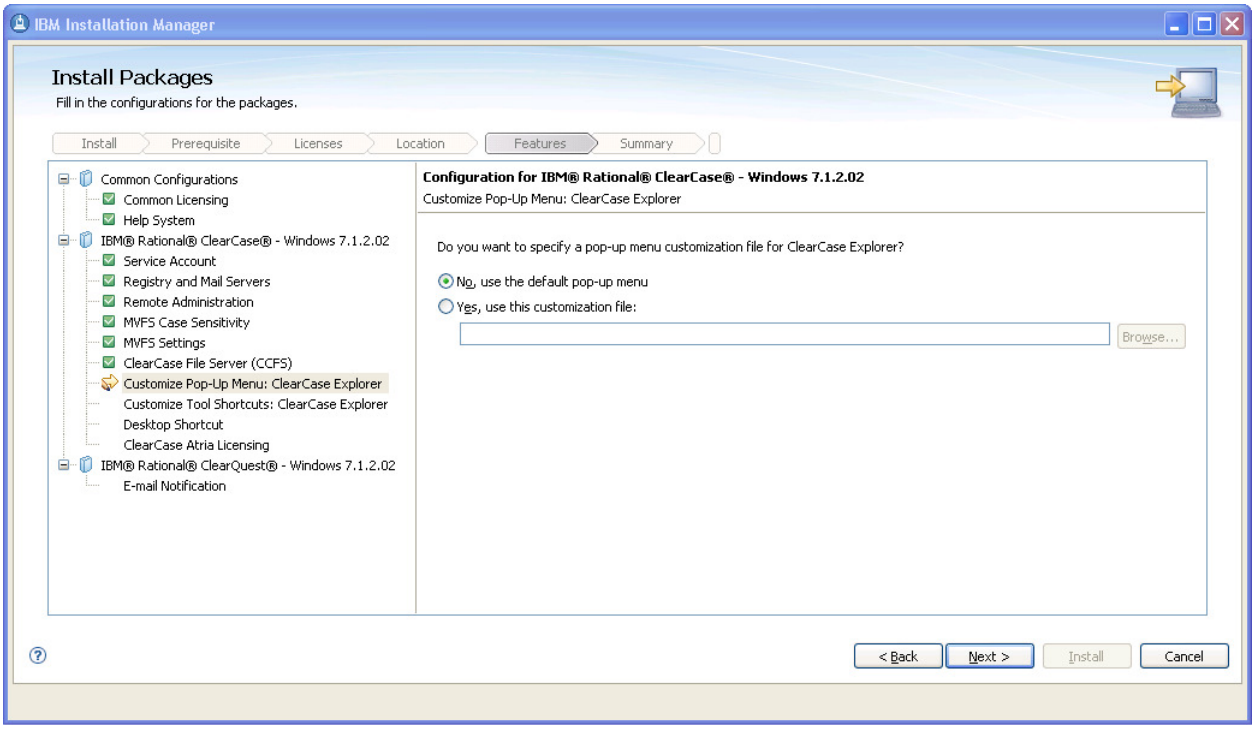

If you have a menu customization for ClearCase Explorer and want to use it, you can enter this now. Click Next.

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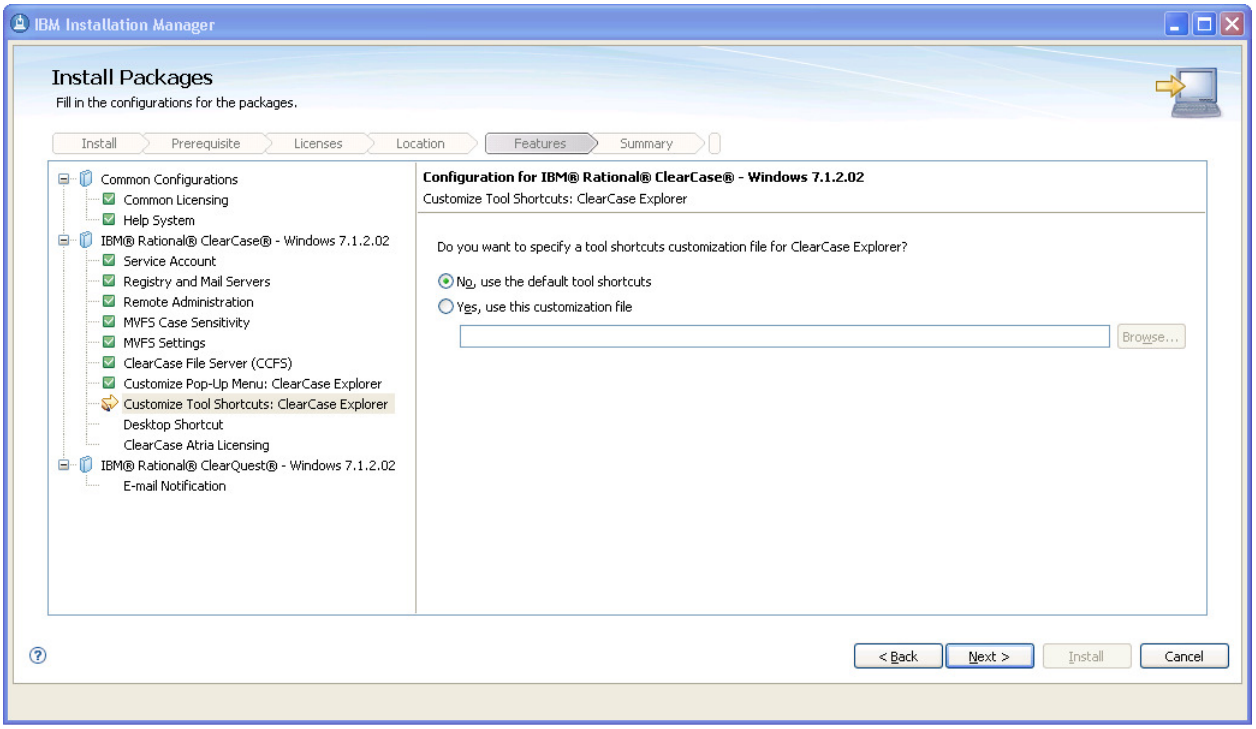

The same with tool shortcuts, if there is a customization file you want to use, do so and click Next.

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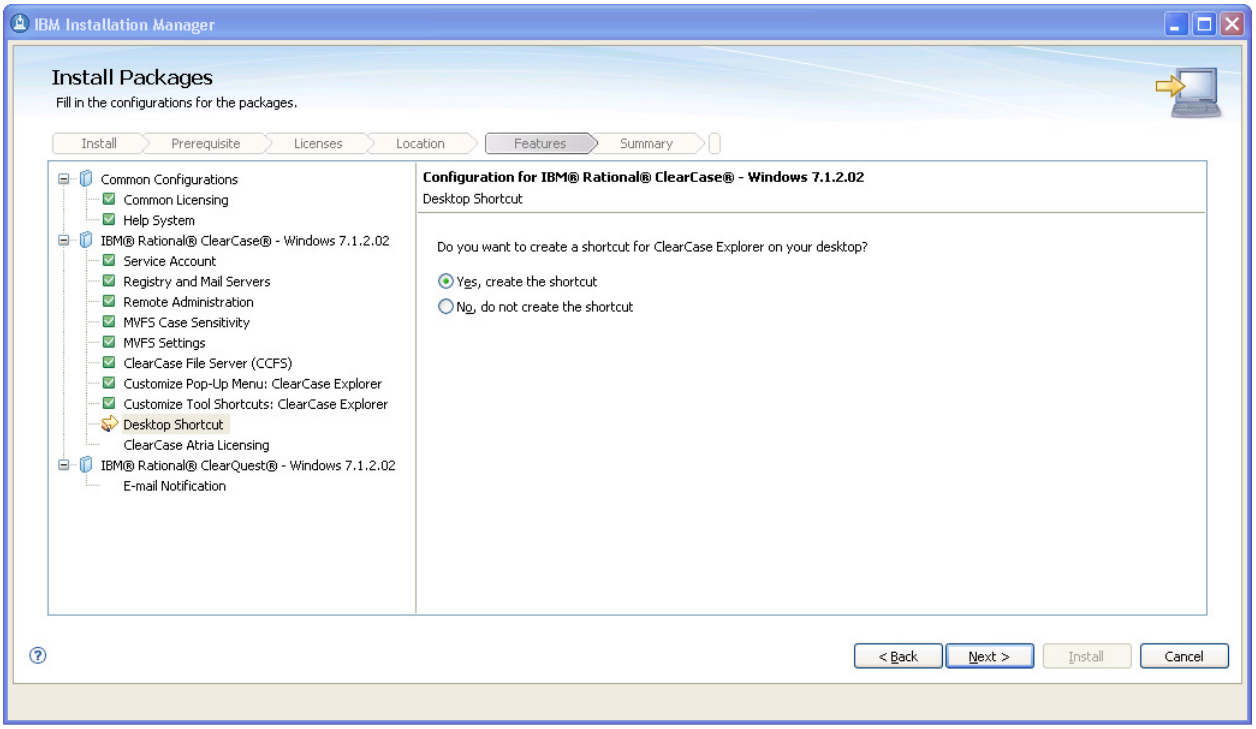

Decide if you want that pesky desktop shortcut or not and click Next.

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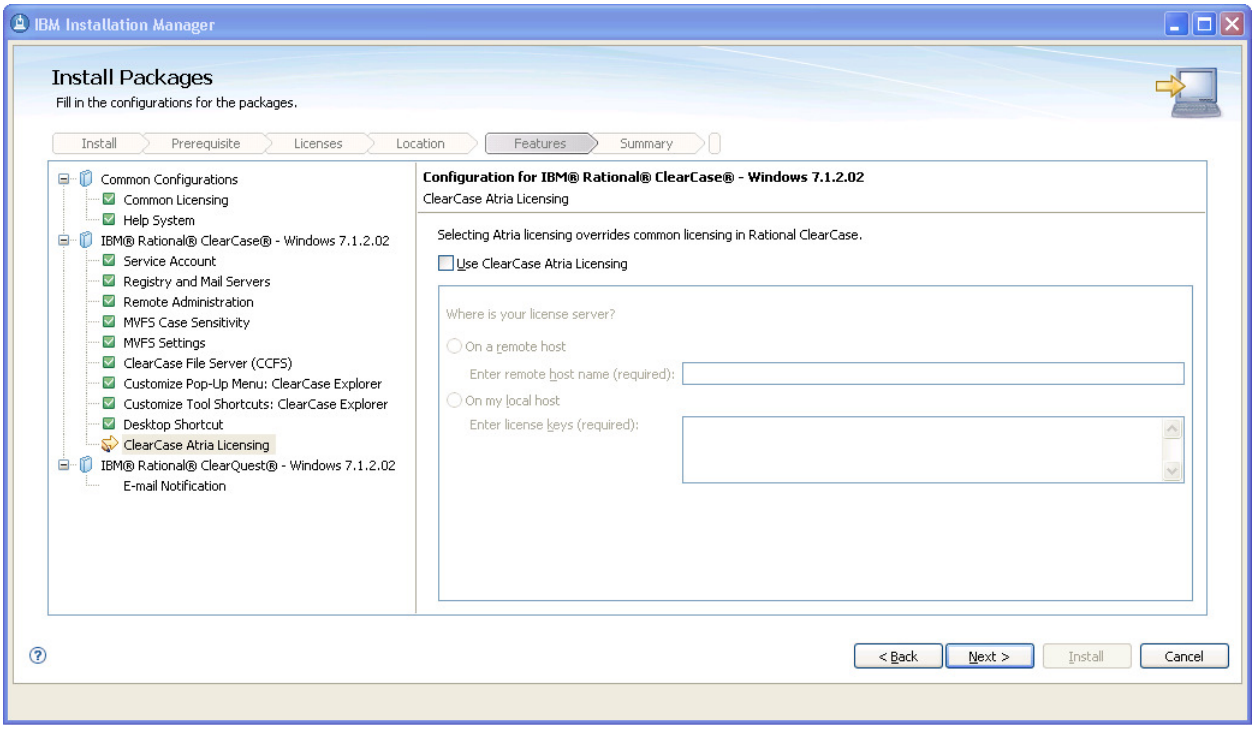

Likely we have already decided on Flex licensing, but if you have an old style Atria license server to use, it can be configured here. Click Next.

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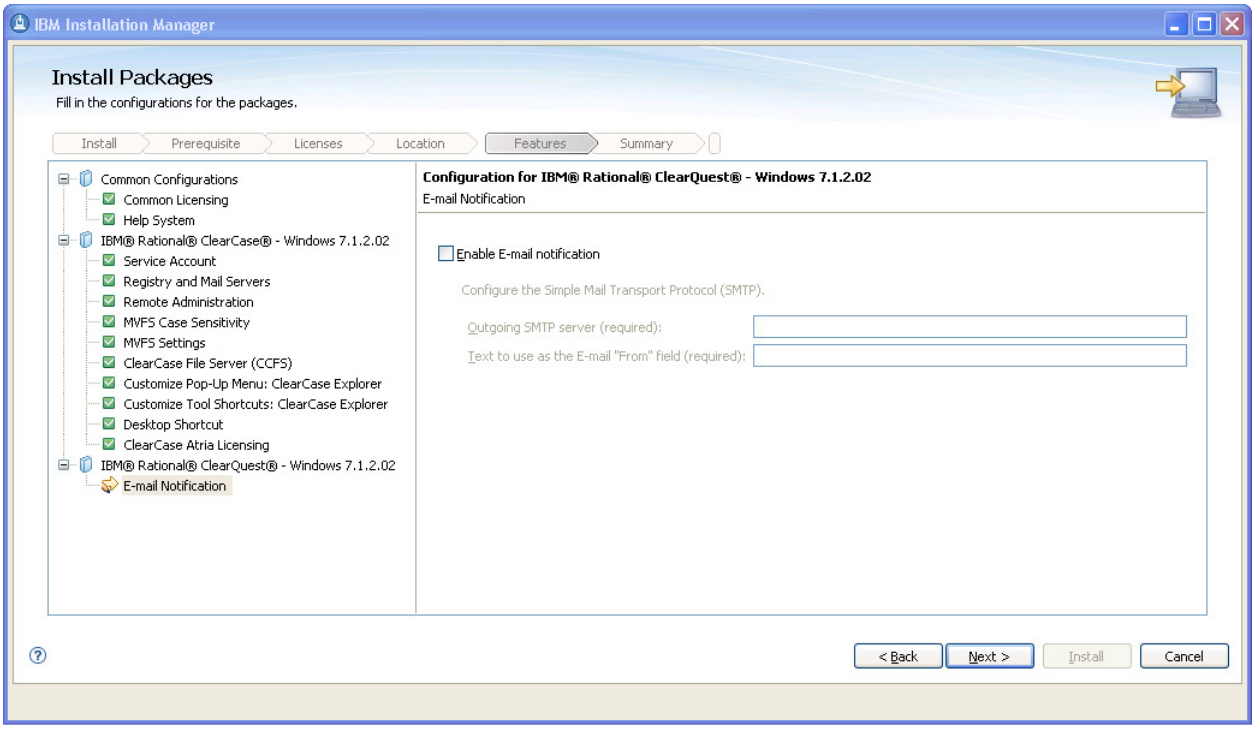

Notice that all the ClearCase configuration items now have a green checkbox. This last configuration is for ClearQuest email notification. Configure this, or not, and click Next.

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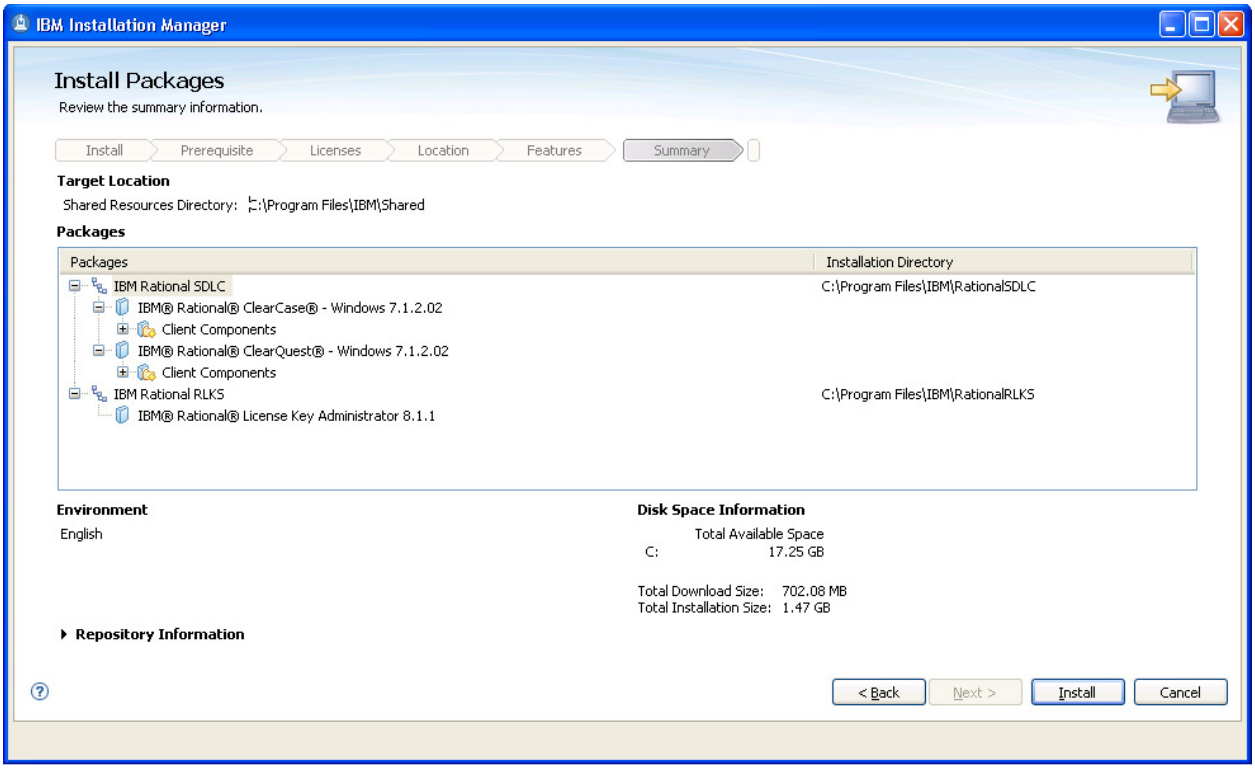

Again, we are ready to go. Click Install to begin installing all three software products.

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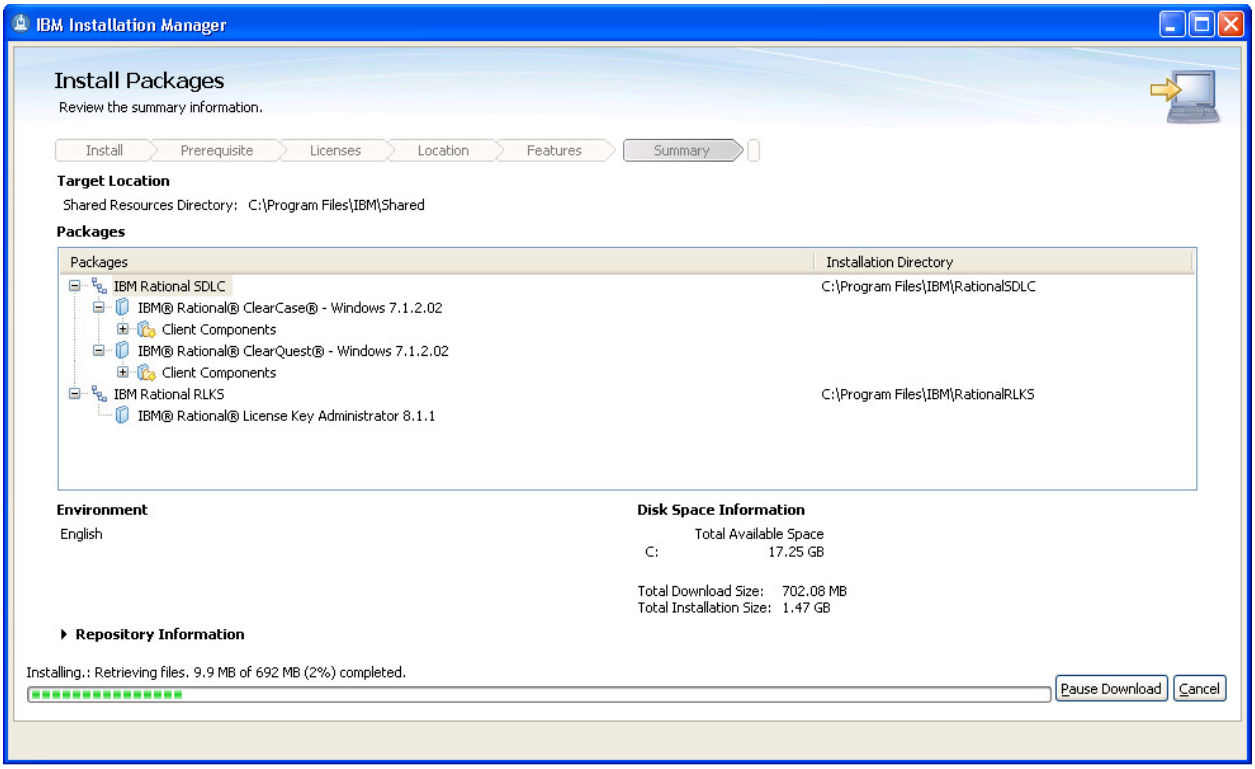

Here we are in process. Again we need to wait for everything to complete.

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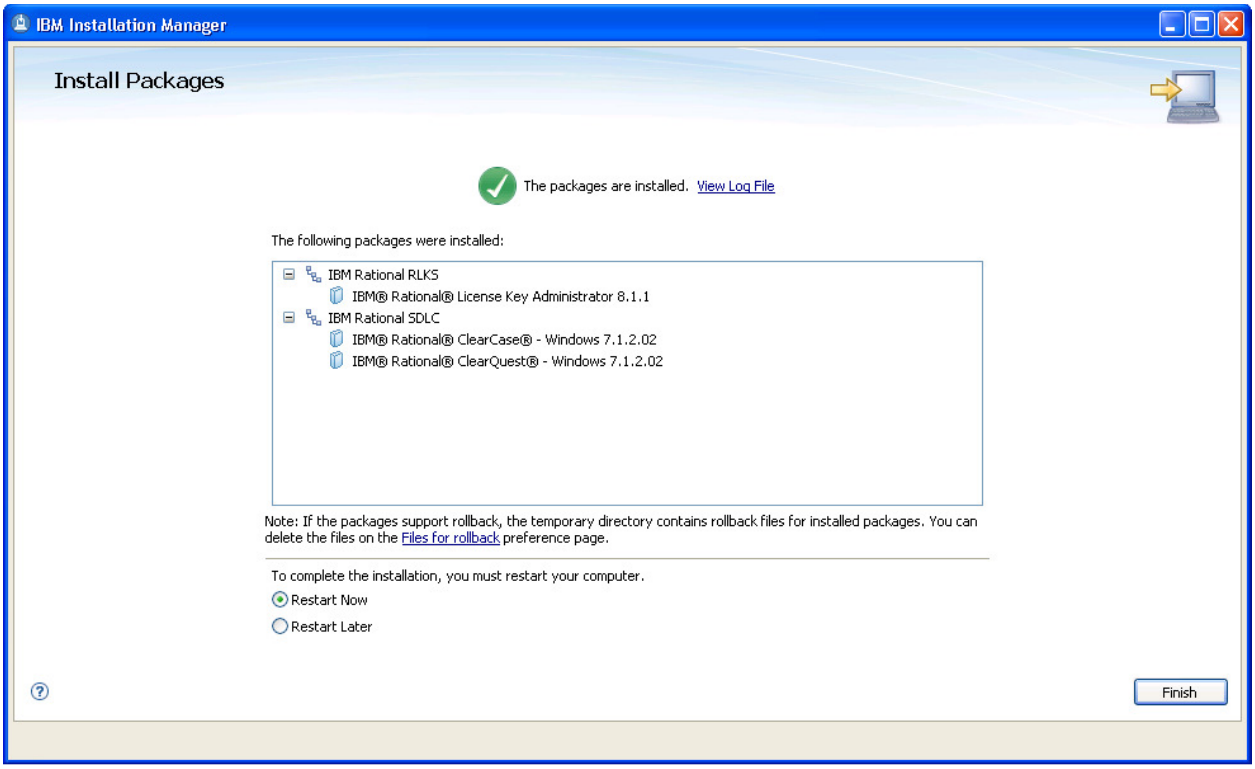

Everything was successfully installed. A reboot will be needed which you can do immediately, or later. Click Finish to conclude this effort.

You may agree that this is a pretty handy way to package up multiple applications into a single install. We could have included RequisitePro, Team Concert, or other products as well. In fact, any number of role specific installations can be created for users needing a different mix of products. As they say, your only limit is your imagination (and disk space, I guess).

As you may have noted, each install takes a great many configuration items. Do we need to specify this for each and every machine installed? As you may have guessed, the answer is no! IBM provides an additional methodology – response files, to automate product installs. But this document is way too long to begin talking about this. This will have to wait for a subsequent document!