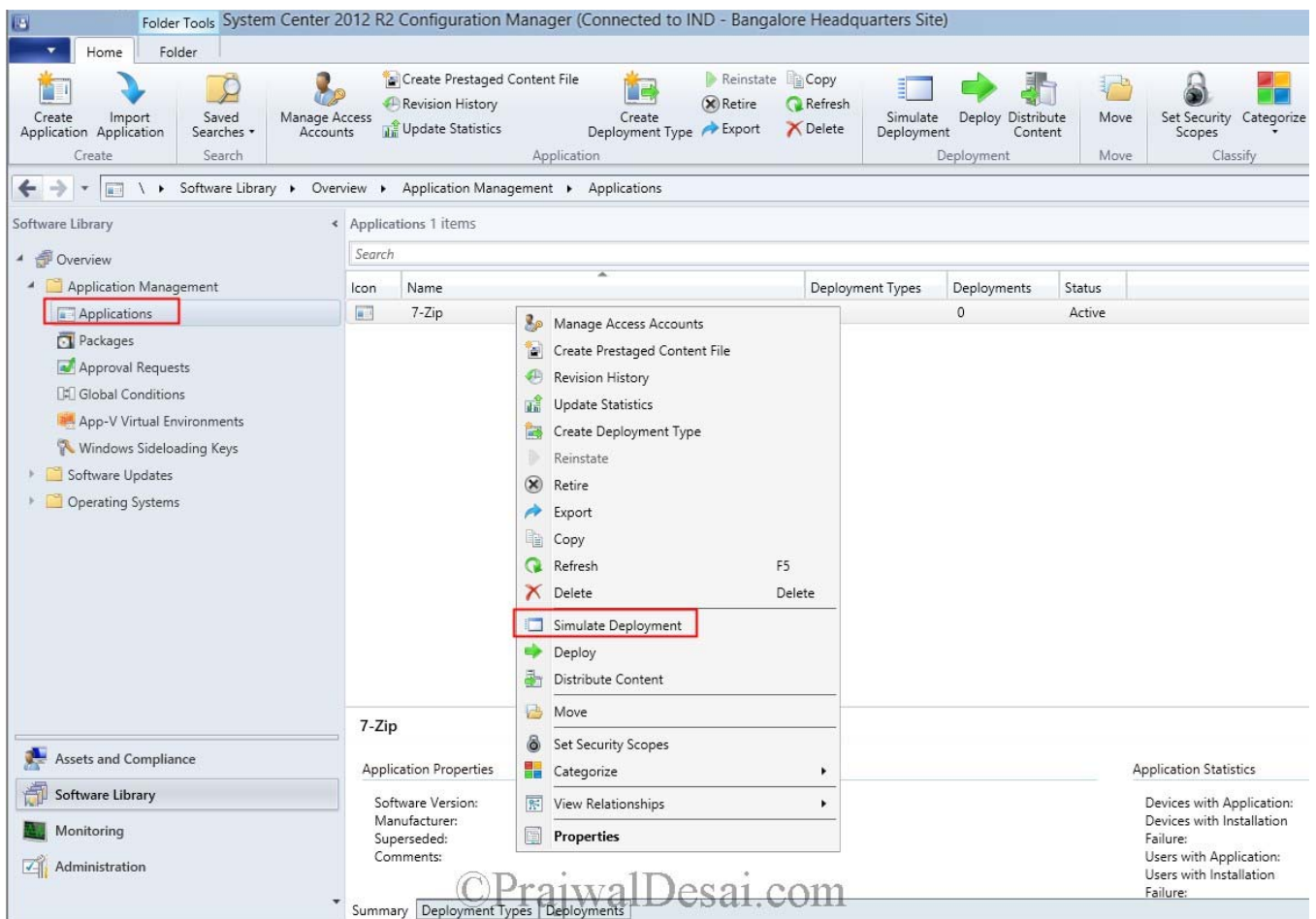


How to Simulate an Application Deployment in SCCM 2012 R2

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In this post we will look at steps on how to simulate an application deployment in SCCM 2012 R2. So what is this **Simulate Deployment** feature in SCCM 2012 R2 ?. Typically you use simulated deployments if you want to test the applicability of an application deployment to computers without installing or uninstalling the application. A simulated deployment evaluates the detection method, requirements and dependencies for a deployment type. Let's assume that you want to deploy an application to a device collection and you want to know if it deploys correctly, in this case you would make use **Simulate Deployment** feature. The simulation will evaluate the dependencies, requirement and detection methods of a deployment and report the results in the **deployments** node of the monitoring workspace.

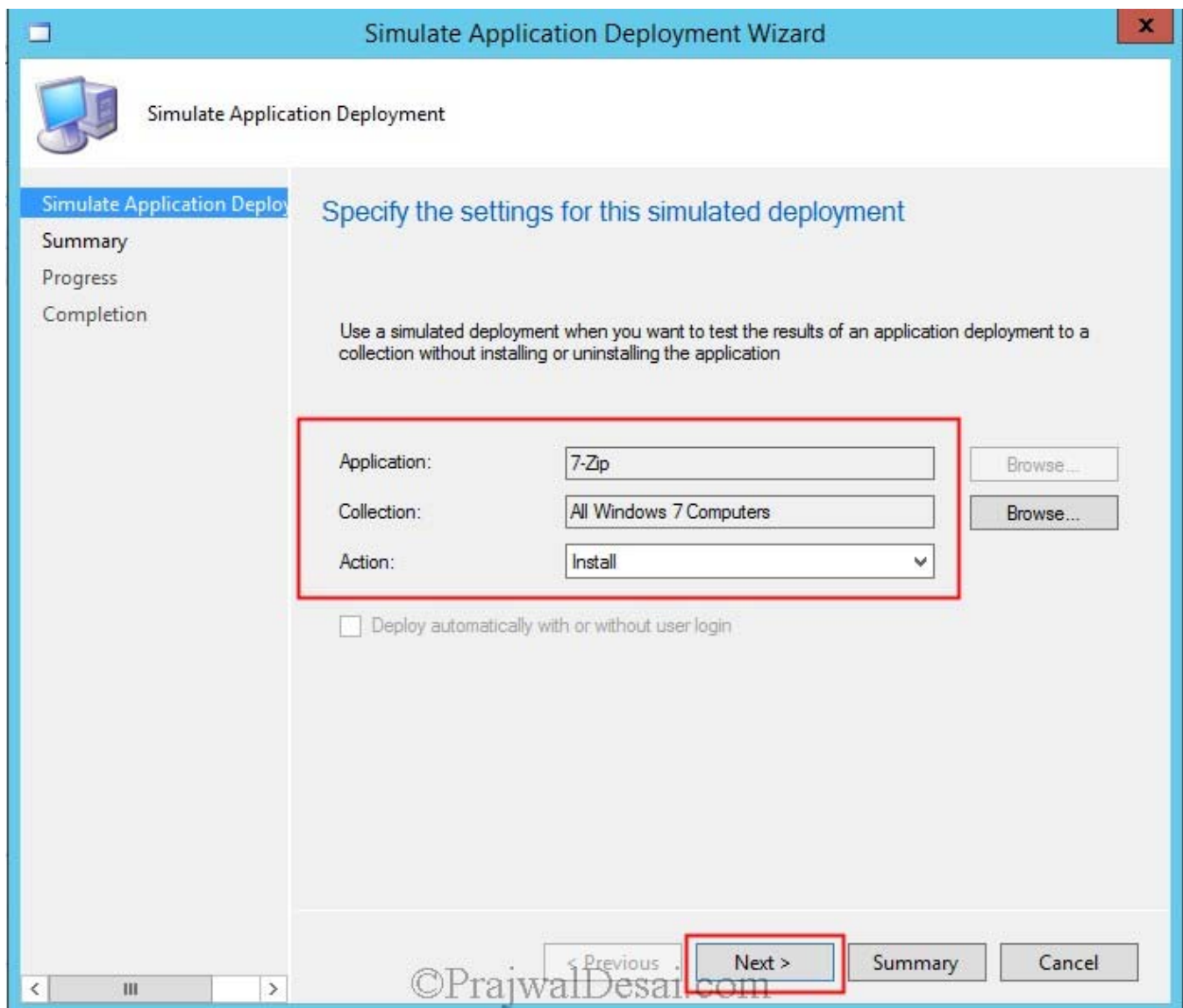
In this post we will use a simple application named [7-zip](#) x64 bit, and we will use the simulate deployment feature and see how it works. You can choose your own application for trying out simulated deployment. In the **Configuration Manager** console, click **Software Library**, under **Application Management** click **Applications**. On the right hand side you will find the list of applications (The application has been already created, to create application from scratch you can check [Deploying Applications Using SCCM 2012](#). Right click the application and click **Simulate Deployment**.



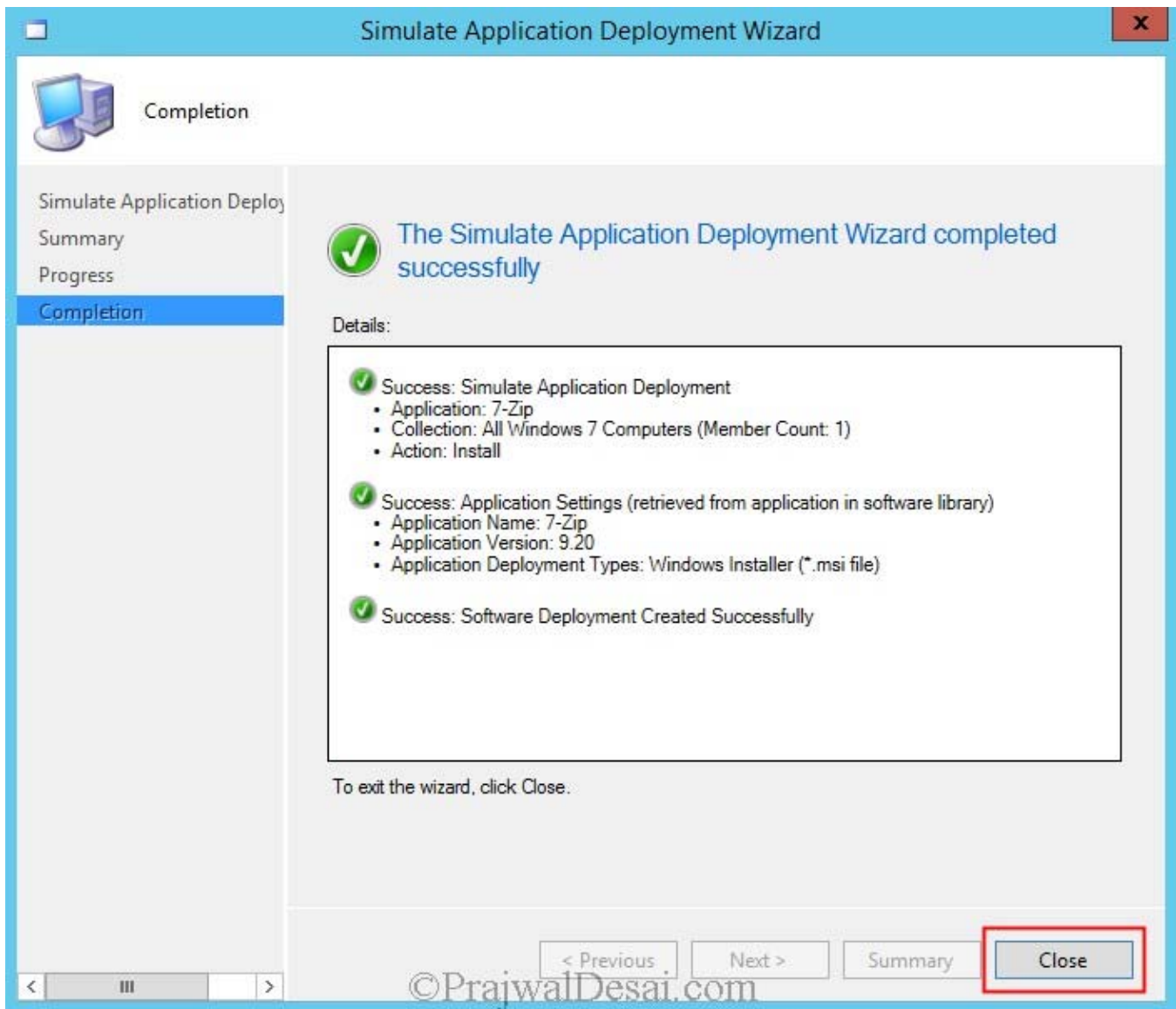
In the **Simulate Application Deployment Wizard**, choose the collection and choose the **Action** as **Install**.

Note

You cannot deploy an application with a deployment purpose of **Uninstall** if a simulated deployment of the same application is active.



Click **Next** and close the wizard.



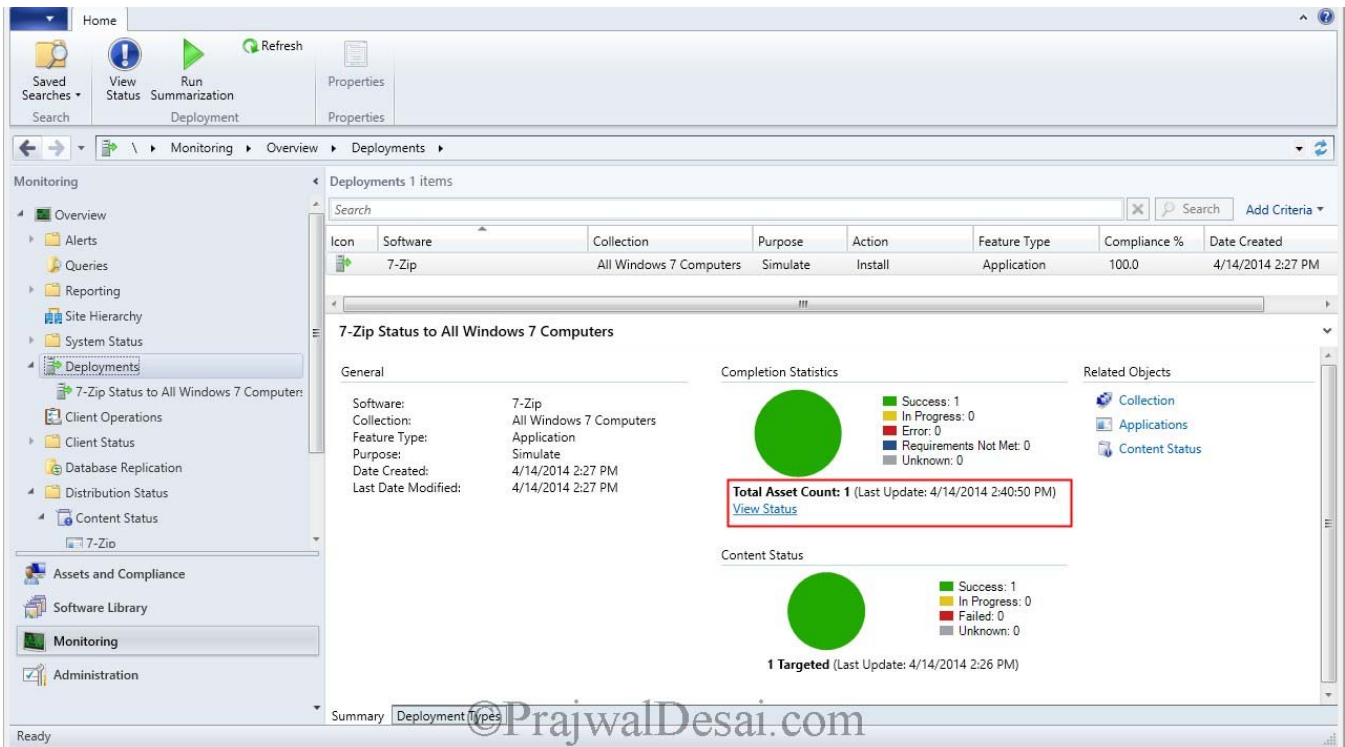
Let's see some of the things related to **Simulated Deployment** of an application.

Simulated applications appear in the Deployments node of the Monitoring workspace with a purpose of Simulate.

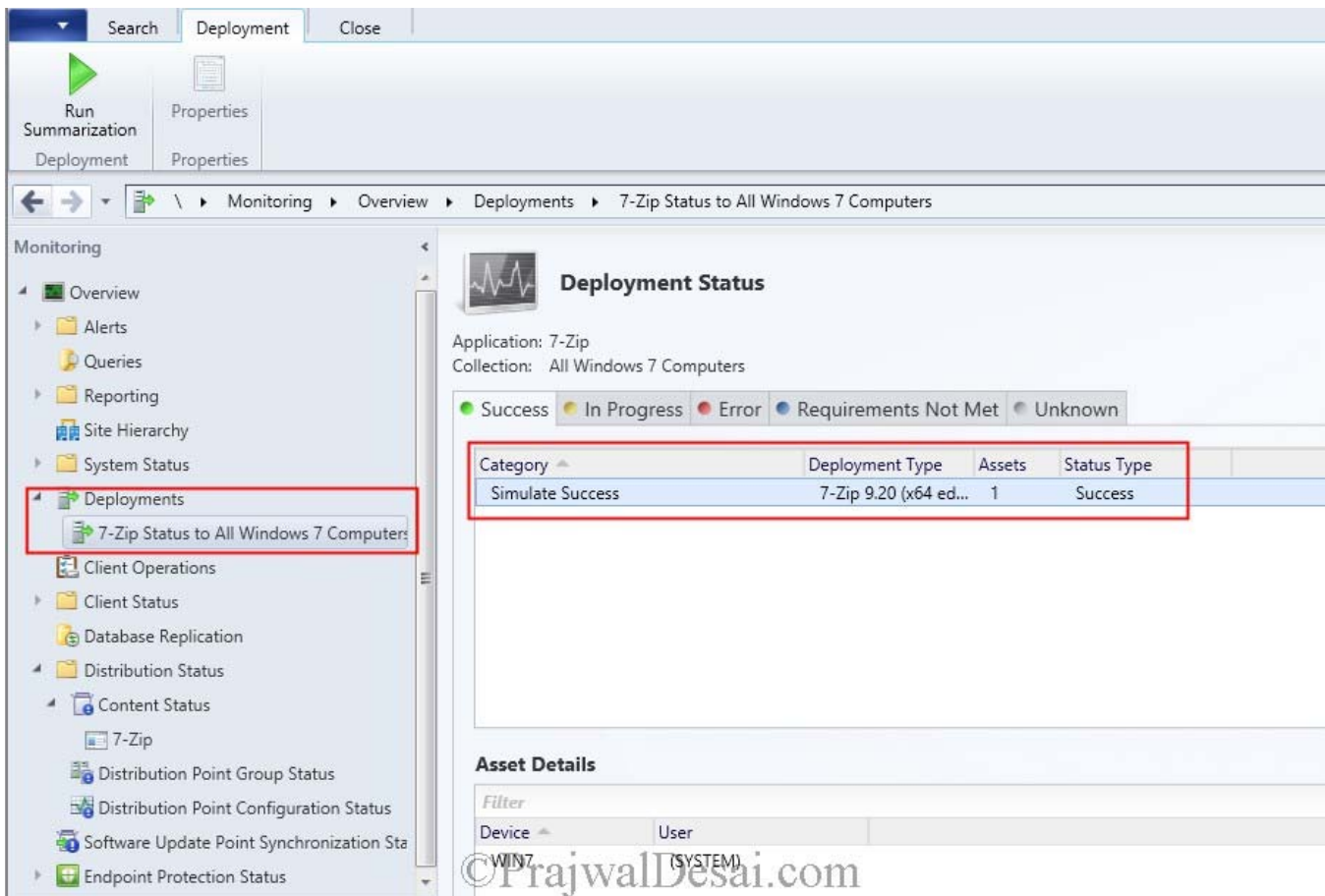
As said earlier, you cannot deploy an application with a deployment purpose of uninstall if a simulated deployment of the same application is active.

You cannot use simulated deployments for collections of mobile devices.

Click **Monitoring**, under **Deployments** choose the **application**. We see that the **Purpose** is **Simulate** and if you look at the **Completion Statistics** we see its successful. What happened in the background was the Configuration Manager 2012 R2 clients have processed the application and evaluated the dependencies, requirement and detection methods and have reported back the information to Configuration Manager 2012 R2 Primary Site.



When you right click on the application and click **View Status**, you will see that the simulated deployment of application is successful.



In this post we have used 7zip 64 bit software for deploying to the **Windows 7 computers** device collection. Now I have another collection named **All Windows XP computers** which consists of Windows XP 32 bit OS, since the 7zip 64 bit version is not compatible or cannot be installed on 32 bit Windows XP OS, I have performed Simulate Deployment of 7zip 64 bit application to Windows XP device collection just to see what would happen.

If you look at the Completion Statistics of the 7zip x64 application which was deployed to Windows 7 device collection, we see that it was successful.

Icon	Software	Collection	Purpose	Action	Feature Type	Compliance %	Date Created
	7-Zip	All Windows XP Computers	Simulate	Install	Application	0.0	4/14/2014 3:47 PM
	7-Zip	All Windows 7 Computers	Simulate	Install	Application	100.0	4/14/2014 2:27 PM

7-Zip Status to All Windows 7 Computers

General

Software: 7-Zip
 Collection: All Windows 7 Computers
 Feature Type: Application
 Purpose: Simulate
 Date Created: 4/14/2014 2:27 PM
 Last Date Modified: 4/14/2014 2:27 PM

Completion Statistics

Total Asset Count: 1 (Last Update: 4/14/2014 4:05:32 PM) [View Status](#)

Content Status

1 Targeted (Last Update: 4/14/2014 2:26 PM)

Legend: Success: 1, In Progress: 0, Error: 0, Requirements Not Met: 0, Unknown: 0

If you look at the **Completion Statistics** of the 7zip x64 application which was deployed to Windows XP device collection, we see it is **Unknown**.

Deployments 0 items

Icon	Software	Collection	Purpose	Action	Feature Type	Compliance %	Date Created
	7-Zip	All Windows XP Computers	Simulate	Install	Application	0.0	4/14/2014 3:47 PM
	7-Zip	All Windows 7 Computers	Simulate	Install	Application	100.0	4/14/2014 2:27 PM

7-Zip Status to All Windows XP Computers

General

Software: 7-Zip
 Collection: All Windows XP Computers
 Feature Type: Application
 Purpose: Simulate
 Date Created: 4/14/2014 3:47 PM
 Last Date Modified: 4/14/2014 3:47 PM

Completion Statistics

Total Asset Count: 1 (Last Update: 4/14/2014 4:03:36 PM) [View Status](#)

Content Status

1 Targeted (Last Update: 4/14/2014 2:26 PM)

Legend: Success: 0, In Progress: 0, Error: 0, Requirements Not Met: 0, Unknown: 1

To look for more information, on the device which is a part of Windows 7 device collection, under **Push Information** check the **Last Status** and it shows **Complete**.

The screenshot shows the SCCM console interface. The left pane displays the navigation tree with 'Devices' selected. The main pane shows a table of devices under the collection 'Success' status devices from deploying "7-Zip" to "All Windows 7 Computers". The table has columns for Icon, Name, Client Type, Client, Site Code, and Client Activity. One device, 'WIN7', is listed with Client Type 'Computer', Client 'Yes', Site Code 'IND', and Client Activity 'Active'. Below the table, the details for 'WIN7' are shown, including General Information (Name: WIN7, Client Type: Computer), Client Check Information (Client Check Result: No Results, Remediation:), Active Directory (Active Directory Site: Default-First-Site-Name, Last Logon:), and Push Information (Last Installation Error: 0, Last Request Attempt: 4/14/2014 1:53 PM, Last Status: Complete). A red box highlights the Push Information section.

On the device which is a part of Windows XP device collection, under **Push Information** check the **Last Status** and it shows **Retry**.

The screenshot shows the SCCM console interface. The left pane displays the navigation tree with 'Devices' selected. The main pane shows a table of devices under the collection 'Success' status devices from deploying "7-Zip" to "All Windows XP Computers". The table has columns for Icon, Name, Client Type, Client, Site Code, and Client Activity. One device, 'TEST', is listed with Client Type 'Computer', Client 'Yes', Site Code 'IND', and Client Activity 'Active'. Below the table, the details for 'TEST' are shown, including General Information (Name: TEST, Client Type: Computer), Client Check Information (Client Check Result: No Results, Remediation:), Active Directory (Active Directory Site: Default-First-Site-Name, Last Logon:), and Push Information (Last Installation Error: 67, Last Request Attempt: 4/14/2014 3:25 PM, Last Status: Retry). A red box highlights the Push Information section.

Once you complete the above steps you should delete the Simulation Deployment and create a real deployment to a collection with users or devices.