Installation of ITM 6.0.3.2 in Windows to monitor MQ queue managers

IBM Techdoc: 7048598
http://www.ibm.com/support/docview.wss?uid=swg27048598

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IBM MQ Support

+++ Objective

The purpose of this document is to provide a tutorial for installation IBM Tivoli Monitoring 6.3.0.2 in a Windows 7 machine.

The overall objective is to have ITM and ITCAM services monitoring MQ queue managers in Windows and in Linux, and additional tutorials will provide steps for other components.

In order to keep the overall scenario as simple as possible, only the most essential components will be installed. Therefore, this tutorial does not show other ITM components; of course, if you need those ITM components, then you can go ahead and install/configure them.

These are the chapters:

Chapter 1 provides the details on how to download the software from IBM Passport Advantage.

Chapter 2 describes how to install these fundamental components:
    TEMS - Tivoli Enterprise Monitoring Server
    TEMA - Tivoli Enterprise Monitoring Agent

Chapter 3 describes how to install the GUI support:
  TEPS - Tivoli Enterprise Portal Server
  TEPD - Tivoli Enterprise Portal Desktop Client

Chapter 4 shows how to start the Tivoli Enterprise Portal GUI

Chapter 5 describes how to install the ITM monitoring agents (these are NOT the agents that will monitor the MQ configuration and the MQ queue managers)

+ Set of tutorials and webinar

http://www.ibm.com/support/docview.wss?uid=swg27048598
Installation of ITM 6.0.3.2 in Windows to monitor MQ queue managers
IBM Techdoc: 7048598
First tutorial in the series.

http://www.ibm.com/support/docview.wss?uid=swg27048600
Installation of ITCAM Agents 7.3 in Windows to monitor MQ queue managers
IBM Techdoc: 7048600
Second tutorial in the series.

http://www.ibm.com/support/docview.wss?uid=swg27048601
Installation of ITM Agents 6.0.3.2 and ITCAM MQ Agents 7.3 in Linux
IBM Techdoc: 7048601
Third tutorial in the series.

http://www.ibm.com/support/docview.wss?uid=swg27048602
ITM and ITCAM - summary of commands for monitoring MQ queue managers
IBM Techdoc: 7048602

Webinar:
http://www.ibm.com/support/docview.wss?uid=swg27048572
Using ITCAM to monitor MQ queue managers in Linux and Windows
Abstract
This WebSphere Support Technical Exchange is designed to present an introduction on basic installation of IBM Tivoli Monitoring (ITM) and IBM Tivoli Composite Application Manager (ITCAM) Agents for WebSphere Messaging to monitor MQ queue managers in Linux and Windows.
Level of Difficulty: Beginner

+ Reference

https://www.ibm.com/support/knowledgecenter/SSTFXA_6.3.0.2/com.ibm.itm.doc_6.3fp2/welcome.htm
IBM Tivoli Monitoring V6.3 Fix Pack 2 documentation

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+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
+++ Chapter 1: Downloading the software
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Visit IBM Passport Advantage to download the software
There are many components to choose from.
For the basic configuration described in this document, only 2 components were
downloaded into the local Windows PC.

+ Summary of the 2 components to download

The most effective way to find an item in IBM Passport Advantage is by searching for "Pat
Number".

Number of part to download:
  CIQ3GEN
Title on Passport Advantage:
  IBM Tivoli Monitoring V6.3.0.2 Base, Windows (64 Bit env.), English
Downloaded in local PC into the following directory:
  C:\downloads\ITM6302\BASE\ITM_V6.3.0.2_BASE_WIN_64_EN.zip
Size: 3.1 GB

Number of part to download
  CIQ3QML
Title on Passport Advantage
  IBM Tivoli Monitoring V6.3.0.2 Agents, Multiplatform, Multilingual
Downloaded in local PC into the following directory:
  C:\downloads\ITM6302\AGENTS\ITM_V6.3.0.2_AGT_MP_ML.tar.gz
Size: 3.3 GB

+ Details:
Start by visiting:

https://www-01.ibm.com/support/knowledgecenter/SSTFXA_6.3.0.2/com.ibm.itm.doc_6.3fp2/welcome.htm
IBM Tivoli Monitoring V6.3 Fix Pack 2 documentation

Click on:
  Download Instructions

You will be taken to:

https://www.ibm.com/support/knowledgecenter/SSTFXA_6.3.0.2/com.ibm.itm.doc_6.3fp2/welcome.htm
Tivoli Monitoring 6.3.0.2 > Version 6.3 Fix Pack 2 >
Download instructions for IBM Tivoli Monitoring V6.3.0.2

Table 2. Tivoli Monitoring software
Number of eAssembly to download
  CRLF2ML
Number of part to download
  CIQ3GEN
Title on Passport Advantage
  IBM Tivoli Monitoring V6.3.0.2 Base, Windows (64 Bit env.), English
Contents
  Tivoli Enterprise Monitoring Server, Tivoli Enterprise Portal Server, Tivoli Enterprise Portal Client, Tivoli Data Warehouse agents, and application support for base agents in English for 64-bit Windows operating systems

To install the Tivoli monitoring agents and Agent Builder, download the parts in Table 3.

Table 3. Tivoli Monitoring agents and Agent Builder
Number of eAssembly to download
 CRLF3ML
Number of part to download
 CIQ3QML
Title on Passport Advantage
 IBM Tivoli Monitoring V6.3.0.2 Agents, Multiplatform, Multilingual
Contents
 Operating system agents (IBM i, Linux, UNIX, Windows) and agentless OS agents (AIX, HP-UX, Linux, Solaris, Windows)

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+++ Chapter 2: Installing the TEMS and the TEMA
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Let's install first the 2 most basic components:
  TEMS - Tivoli Enterprise Monitoring Server
  TEMA - Tivoli Enterprise Monitoring Agents

Login to the Windows PC as an Administrator.

Go to the directory where the installation file for the ITM BASE was downloaded:
    IBM Tivoli Monitoring V6.3.0.2 Base, Windows (64 Bit env.), English

Downloaded in local PC in:
  C:\downloads\ITM6302\BASE\ITM_V6.3.0.2_BASE_WIN_64_EN.zip

Unzip the file.

Go to the WINDOWS subdirectory:

C:\downloads\ITM6302\BASE\ITM_V6.3.0.2_BASE_WIN_64_EN\WINDOWS

Launch the installation wizard by double-clicking the setup.exe file in the \WINDOWS subdirectory

You must do "right click" and select: Run as Administrator
Otherwise, you will get error that you must run it as an administrator.
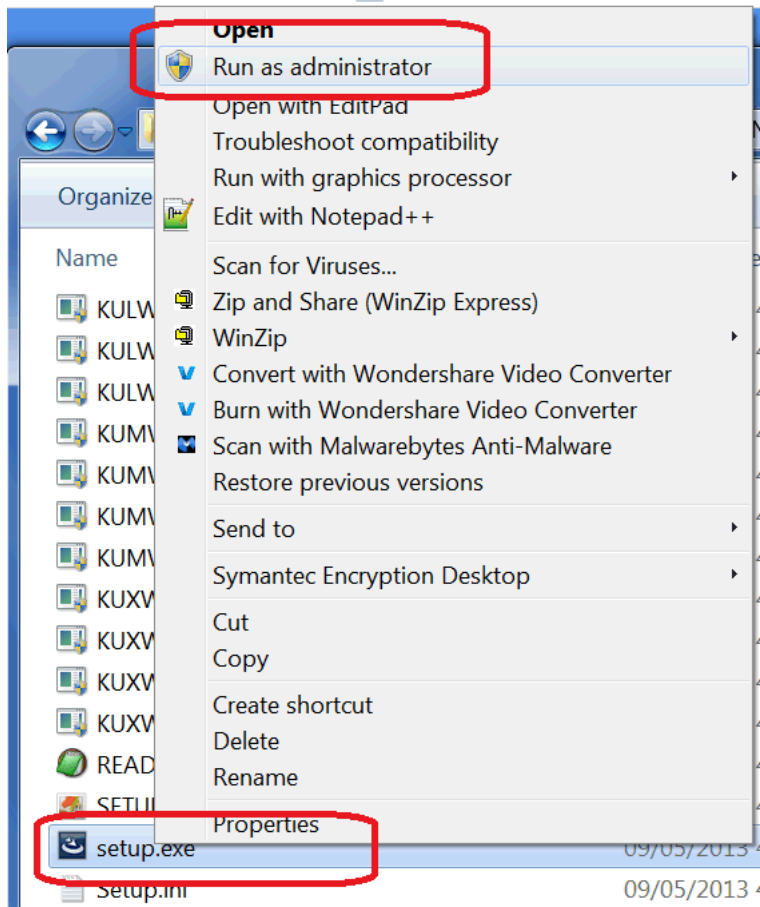
You will see the Welcome installation screen and the licensing agreement.
Follow the prompts.

For the screen that asks where to install the product...
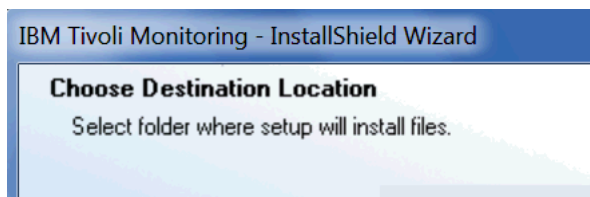
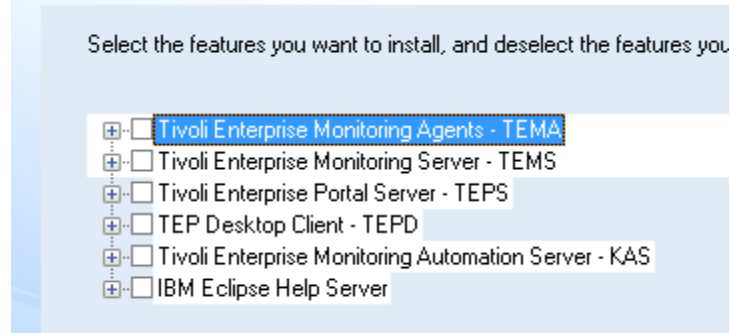... you can accept the default Destination folder:

C:\IBM\ITM

For the User Data Encryption Key, again, I chose to accept the default:
The default encryption key is:
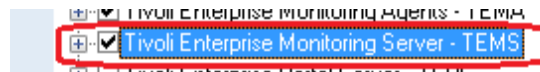   IBMTivoliMonitoringEncryptionKey
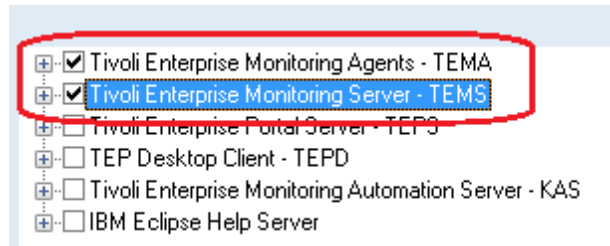

Continue with the prompts

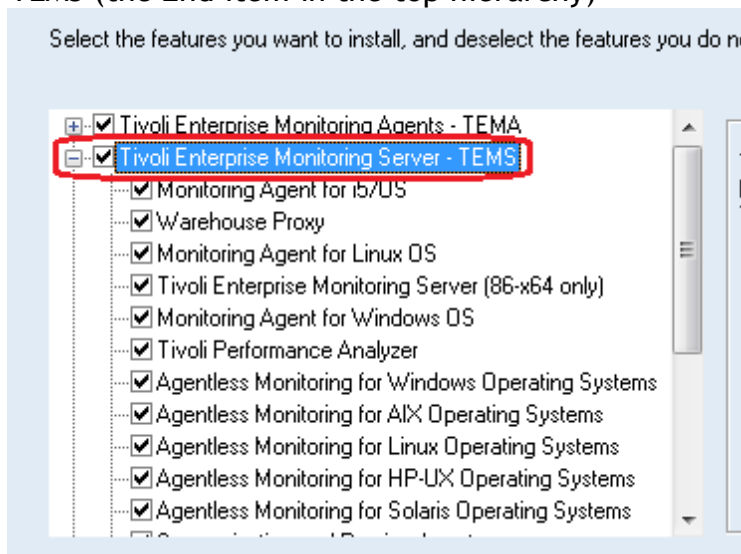In the Select Features window ...

... select the check box for TEMS: (the 2nd item in the list)
Tivoli Enterprise Monitoring Server (TEMS)

Notice that automatically the 1st item in the list, TEMA, was also selected.

Expand the item for TEMS (the 2nd item in the top hierarchy)

Because the focus of this techdoc is to install the minimum components, some items will be unchecked / unselected from TEMS
Notice that the corresponding deselection took place in the first/top main component "Tivoli Enterprise Monitoring Agents" TEMA.

For this techdoc the following items for TEMA and TEMS remained selected. The others were unselected:

For TEMA:

(*) Tivoli Enterprise Monitoring Agents - TEMA
  (*) 32/64 Bit Agent Compatibility Package (x86-64 only)
  (*) Tivoli Enterprise Monitoring Agent Framework
  (*) Tivoli Enterprise Monitoring Agent Framework (x86-64 only)
  ( ) Warehouse Proxy Agent (x86-64 only)
  ( ) Tivoli Performance Analyzer
  ( ) Summarization and Pruning Agent (x86-64 only)
 (*) Tivoli Enterprise Services User Interface Extensions
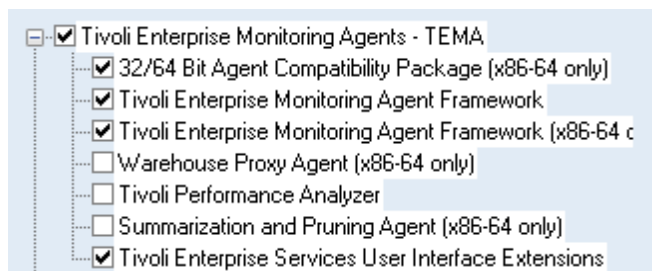
For TEMS

(*) Tivoli Enterprise Monitoring Server - TEMS
  ( ) Monitoring Agent for i5/OS
  ( ) Warehouse Proxy
  (*) Monitoring Agent for Linux OS
  (*) Tivoli Enterprise Monitoring Server (86-64 only)
  (*) Monitoring Agent for Windows OS
  ( ) Tivoli Performance Analyzer
  (*) Agentless Monitoring for Windows OS
  ( ) Agentless Monitoring for AIX OS
  (*) Agentless Monitoring for Linux OS
  ( ) Agentless Monitoring for HP-UX OS
  ( ) Agentless Monitoring for Solaris OS
  ( ) Summarization and Pruning Agent
  ( ) IBM Tivoli Monitoring 5.x Endpoint Support
  (*) Monitoring Agent for UNIX Logs
 (*) Universal Agent
  (*) Monitoring Agent for UNIX OS
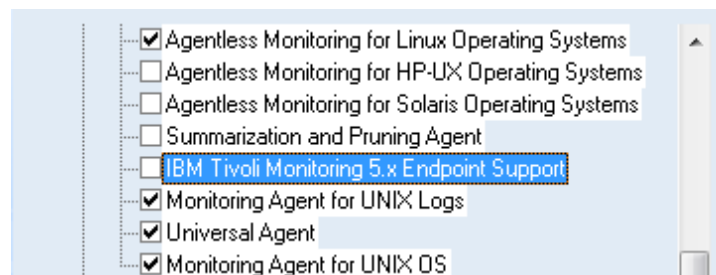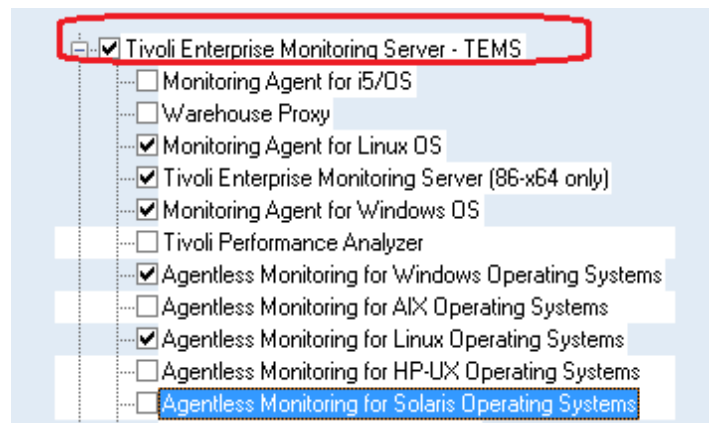
For now, these other components were not installed at this time.
TEPS and TEPD will be installed later.

( ) Tivoli Enterprise Portal Server - TEPS
( ) TEP Desktop Client - TEPD
( ) Tivoli Enterprise Monitoring Automation Server - KAS
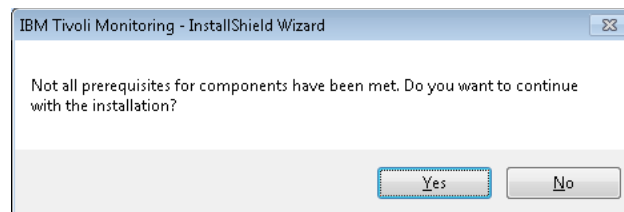( ) IBM Eclipse Help Server
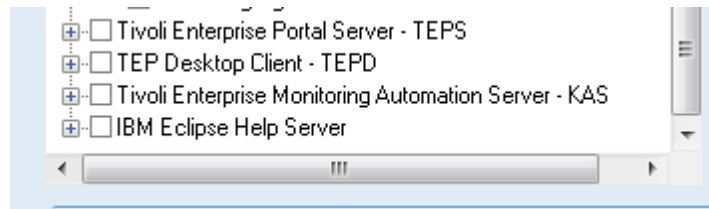
After pressing Next, the generation report for the pre-requisites was performed.

There was 1 failure: the prerequisites for the product KMS (Windows 7 is not supported)
failed. After some investigation I decided to ignore this warning and it was ok to ignore it.
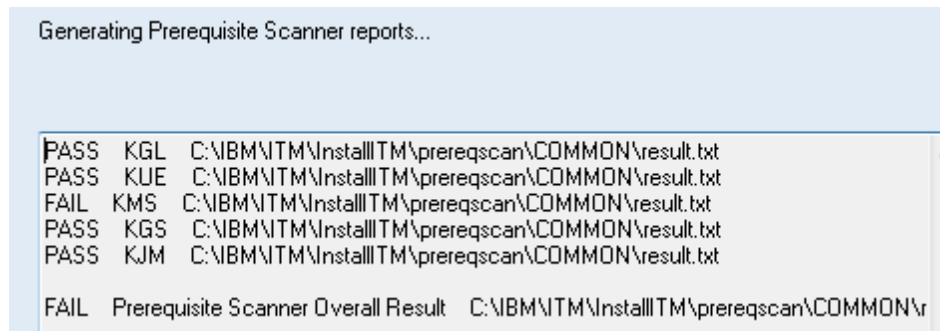
Clicked "Yes" to the warning that not all the prerequisites were met.

On the next panel, I selected the corresponding items that I selected earlier:

  (*) 32/64 Bit Agent Compatibility Package (x86-64 only)
  ( ) Warehouse Proxy Agent (x86-64 only)
  ( ) Summarization and Pruning Agent (x86-64 only)
  (*) Tivoli Enterprise Services User Interface Extensions

Select the agents to configure for remote deployment.

☑ 32/64 Bit Agent Compatibility Package (x86-64 only)
☐ Warehouse Proxy Agent (x86-64 only)
☐ Summarization and Pruning Agent (x86-64 only)
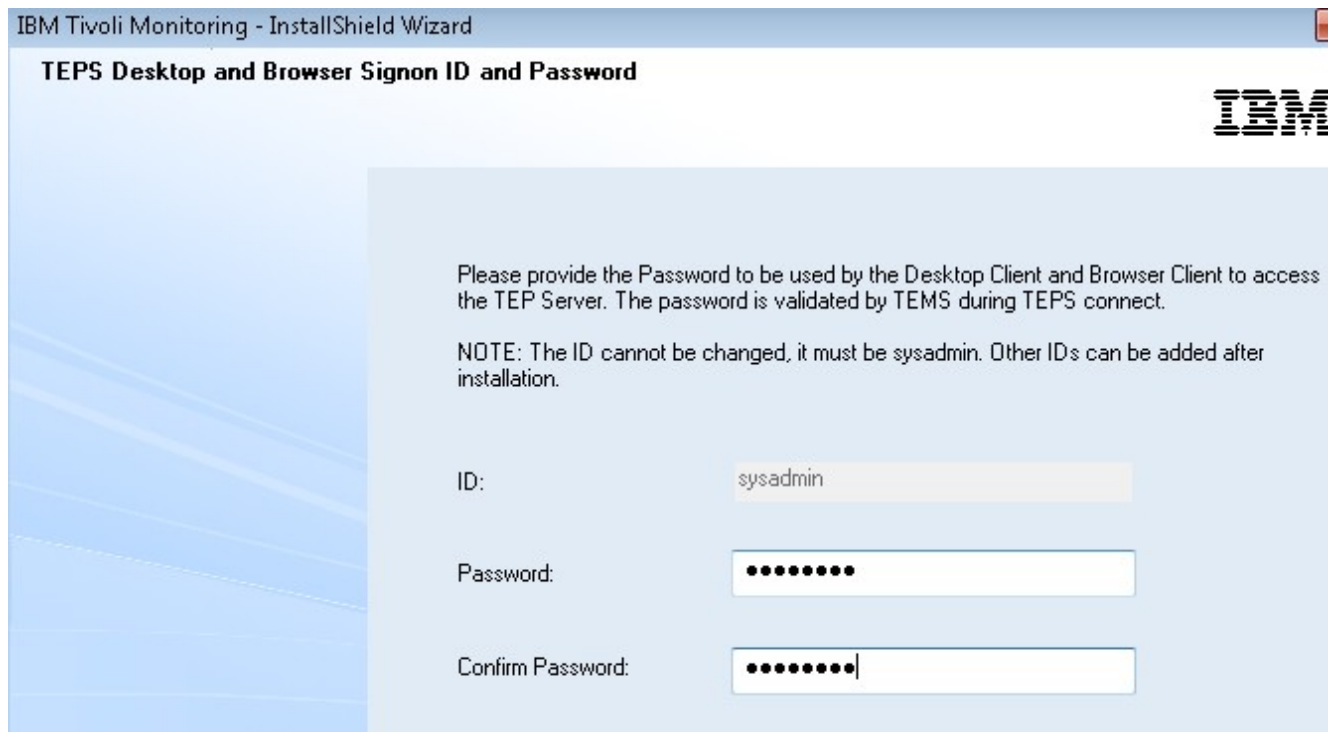☑ Tivoli Enterprise Services User Interface Extensions
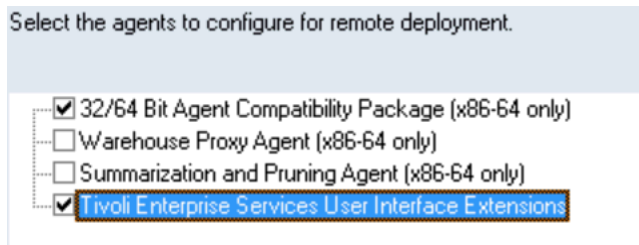
Continue with the prompts and you will be asked for a password.

The user "sysadmin" cannot be changed.
Because this is a test machine, I used an easy password:
  passw0rd

IBM Tivoli Monitoring - InstallShield Wizard

TEPS Desktop and Browser Signon ID and Password

IBM

Please provide the Password to be used by the Desktop Client and Browser Client to access the TEP Server. The password is validated by TEMS during TEPS connect.

NOTE: The ID cannot be changed, it must be sysadmin. Other IDs can be added after installation.

ID: sysadmin

Password: ●●●●●●●●

Confirm Password: ●●●●●●●●

Review the installation summary details. The summary identifies the components you are installing.

+ begin quote

Install into Directory: C:\IBM\ITM
Add Program Folder: IBM Tivoli Monitoring

Available Disk Space: 75618 MB
Required Disk Space: 545 MB
Deploy Required Disk Space: 237 MB
TEMP Total Disk Space Required: 100 MB
Total Disk Space Required: 882 MB

Install the following features:

  Tivoli Enterprise Monitoring Agents - TEMA:
      32/64 Bit Agent Compatibility Package (x86-64 only)
      Tivoli Enterprise Monitoring Agent Framework
      Tivoli Enterprise Monitoring Agent Framework (x86-64 only)
      Tivoli Enterprise Services User Interface Extensions

  Tivoli Enterprise Monitoring Server - TEMS:
      Monitoring Agent for Linux OS
      Tivoli Enterprise Monitoring Server (86-x64 only)
      Monitoring Agent for Windows OS
      Agentless Monitoring for Windows Operating Systems
      Agentless Monitoring for Linux Operating Systems
      Monitoring Agent for UNIX Logs
      Universal Agent
      Monitoring Agent for UNIX OS

  GSK component:
      IBM GSKit Security Interface (86-x64 only)
      IBM GSKit Security Interface

  JVM component:
      Embedded JVM (86-x64 only)
      Embedded JVM

  Tivoli Command Line Interface:
      Tivoli Enterprise Services User Interface

Configure the following Agents for deployment:
  32/64 Bit Agent Compatibility Package (x86-64 only)
  Tivoli Enterprise Services User Interface Extensions

+ end quote

Click Next to begin the installation.

The appropriate files will be installed.

After the components are installed, a configuration window (called the Setup Type window)
is displayed.

(*) Configure Tivoli Enterprise Monitoring Server
(*) Configure agents default connection to Tivoli Enterprise Monitoring Server
(*) Launch Manage Tivoli Monitoring Services for additional configuration options and to
start Tivoli Monitoring services.

In the following screens you will be prompted for the information required to configure the following
items. Uncheck the box to delay configuration until after installation is complete. Some
configurations items are mandatory (preceded by an *) and cannot be unchecked.

☑ *Configure Tivoli Enterprise Monitoring Server

☑ Configure agents default connection to Tivoli Enterprise Monitoring Server

☑ Launch Manage Tivoli Monitoring Services for additional configuration options and to start
   Tivoli Monitoring services

Click Next to start configuring all selected components.

There will be a pop up Window that will have items to be configured.
If you have many windows opened in your desktop you may miss it!
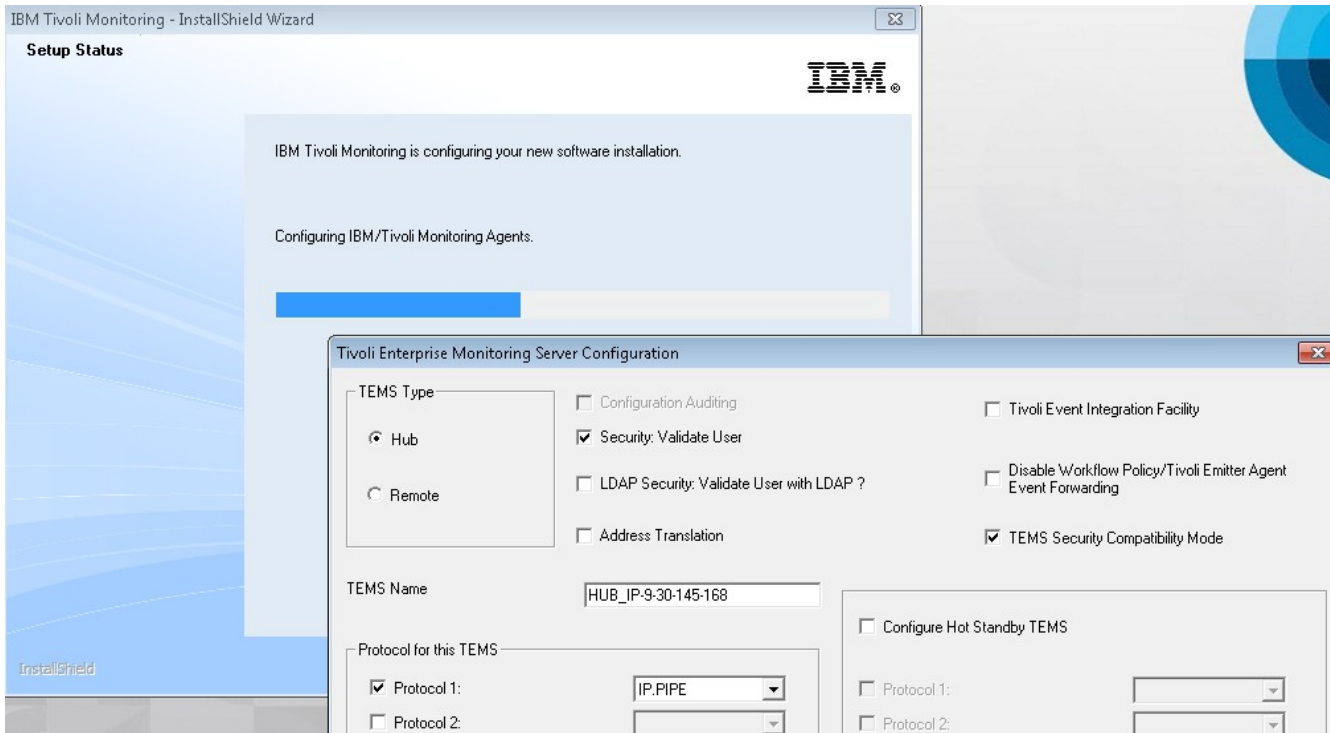
For the screen of "Tivoli Enterprise Monitoring Server Configuration" I made 2 changes:

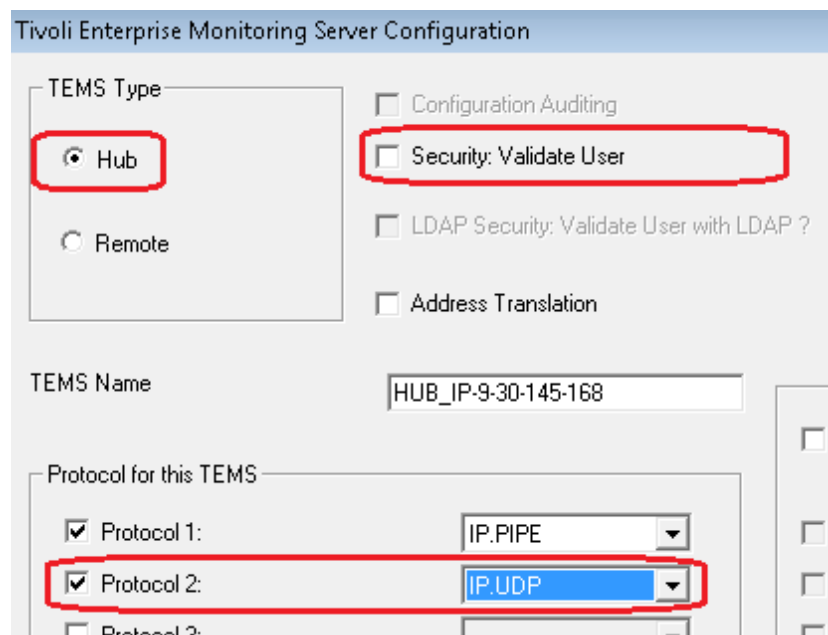1: Unchecked the box: ( ) Security: Validate User
   (The reason is that this is a test environment - for Production, definitively a reconfiguration will be needed to ensure that the user is validated)

2: Added:
   Protocol 2: IP.UDP

I accepted the name for the TEMS, which is based on the HOSTNAME of the Windows PC:
   HUB_IP-9-30-145-168

Click OK. Next, configure the Protocols:

Note: In a preliminary test installation, when I accepted the Hostname, I got a warning, which was a "false alarm" and could be ignored, but I wanted to avoid that warning this time. Thus I am specifying the IP address.
If you decide to keep the Hostname, then the following technote might be useful:

  Warning: There is recognized incorrect value for Hub TEMS configuration.
  <Hostname> was not recognized as "self reference"
See the following technote:
http://www.ibm.com/support/docview.wss?uid=swg21599506
TEMS Hostname configuration error
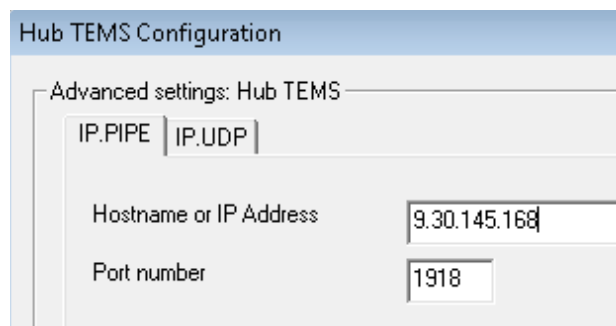
For IP.PIPE, I specified the IP address instead of the hostname:
  9.30.145.168
I accepted the port: 1918
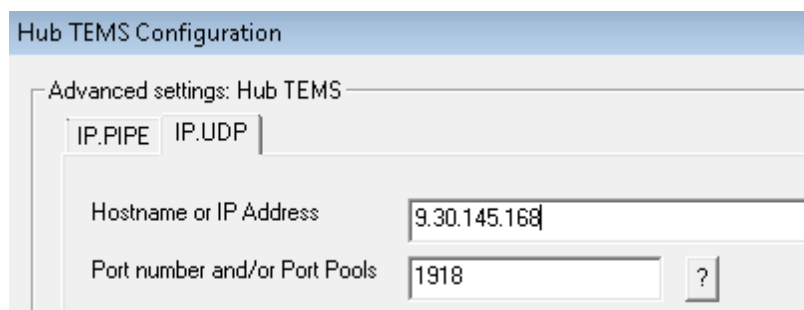
Same for the IP.UDP protocol:

Click OK to continue.

You will see the following window:
  Add application support to the TEMS
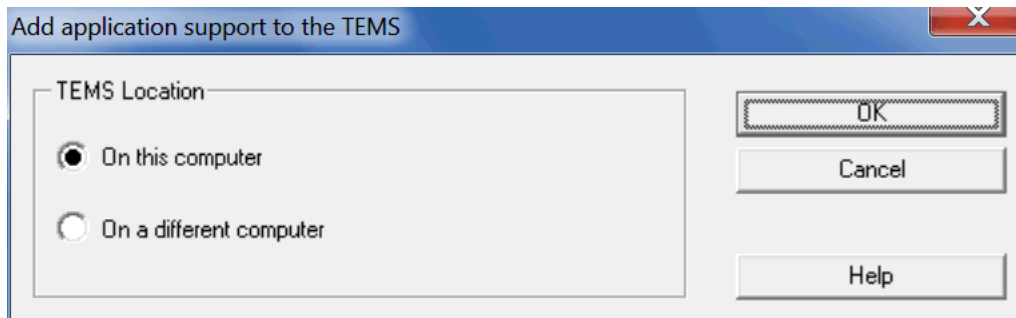
Accept the default:
(*) On this computer

Earlier on, we selected the base monitoring agents for which we wanted to install application support files on the monitoring server.
In this step, we activate the application support through a process known as seeding the monitoring server.

WARNING!!
This step was very confusing to me, even after I did a couple of preliminary installations.
I thought: why I am asking again to deal with the agents? I have already told the installer to install the agents?

This is my conclusion and it helped me to better understand the rest of the configuration.

The TEMS is the CORE of ITM, and is capable to interact with many types of agents.
But after the TEMS is installed for the first time, it does NOT KNOW how to interact with ANY agent!
Thus, it is important to tell the TEMS, which are the agents that it needs to interact with at this time.
During the previous step, some files related to the agents were installed in the PC, but the TEMS does NOT automatically use them.
Thus, the next screen will tell the TEMS that it needs to use them!

You will see the window "Select the application support to add to the TEMS".

This window lists the monitoring agents that were installed earlier, but that the TEMS has NOT recognize yet.
You need to tell the TEMS explicitly that you want the TEMS to know about those agents!
Click OK.
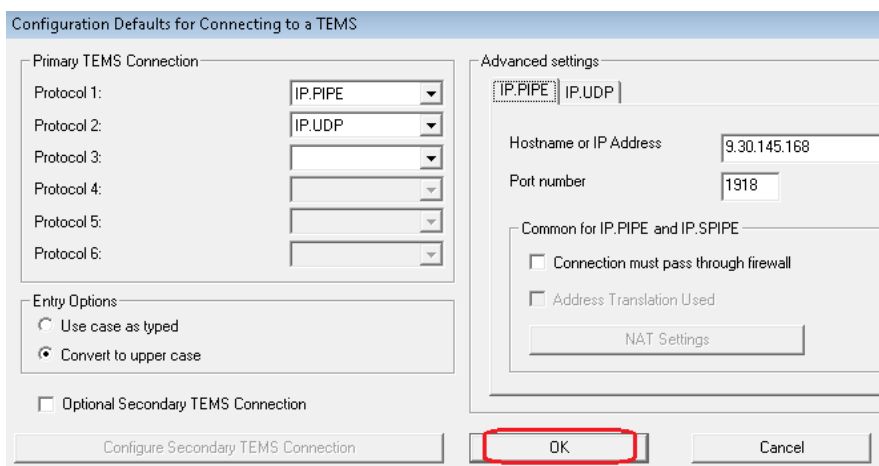This will begin what is known as "seeding the monitoring server".

Ensure that all the agents are select and then accept the default of:
(*) New
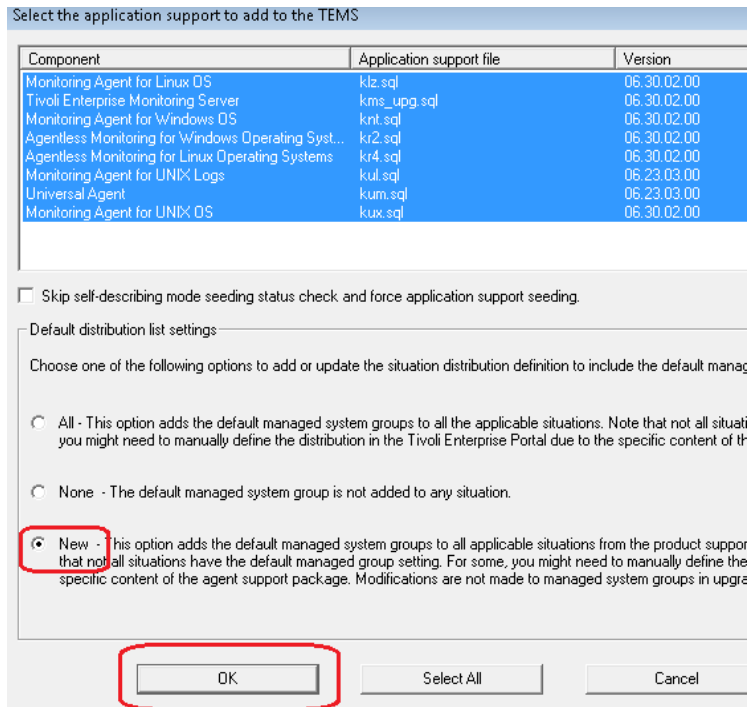
Click OK.

Frankly, I do not know why the Protocols window is being shown again.
Thus, I just clicked OK:

Continue with the prompts until Finished.

Then the following screen will appear:
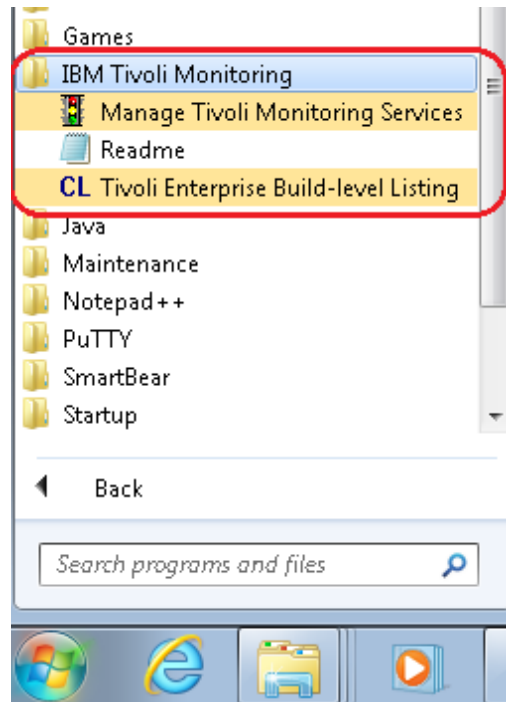 Manage Tivoli Enterprise Monitoring Services - TEMS Mode - (Local Computer)

There is at this time only 1 Service/Application:
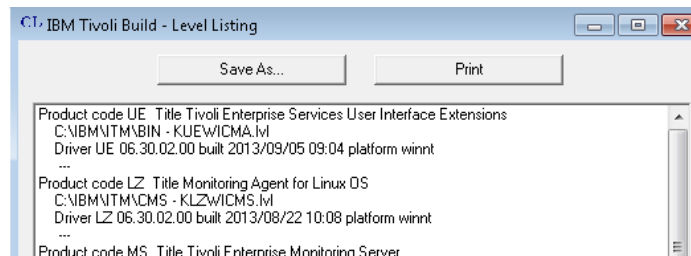
 Tivoli Enterprise Monitoring Server (TEMS1)
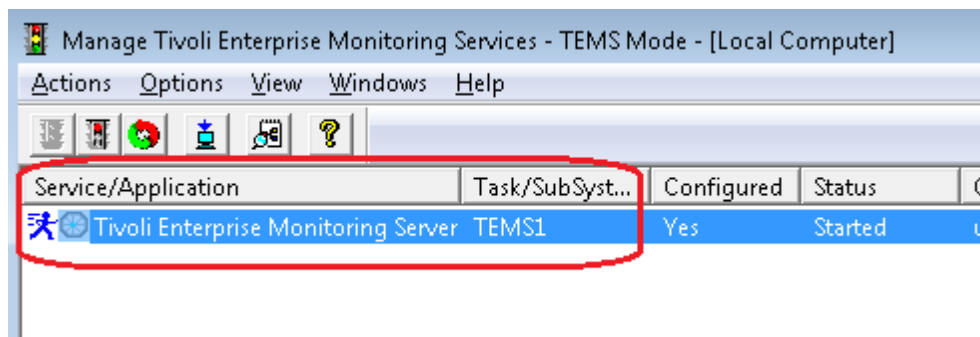
And under the Start menu, you will see the Program Folder:
 IBM Tivoli Monitoring

Which contains the following items:
 Manage Tivoli Monitoring Services
 Readme
 Tivoli Enterprise Build-Level Listing

From the Start menu, for the IBM Tivoli Monitoring folder, if you click on the entry:
 Tivoli Enterprise Build-level Listing"
... you will see a window with the details of the installed components:
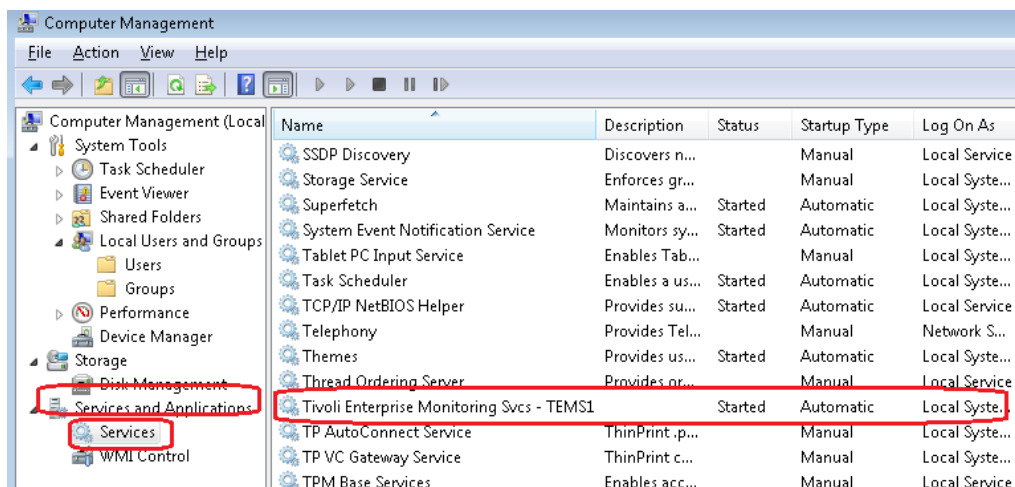

In Start > Administrative Tools > Computer Management

Under "Local users and groups", Select "Users"
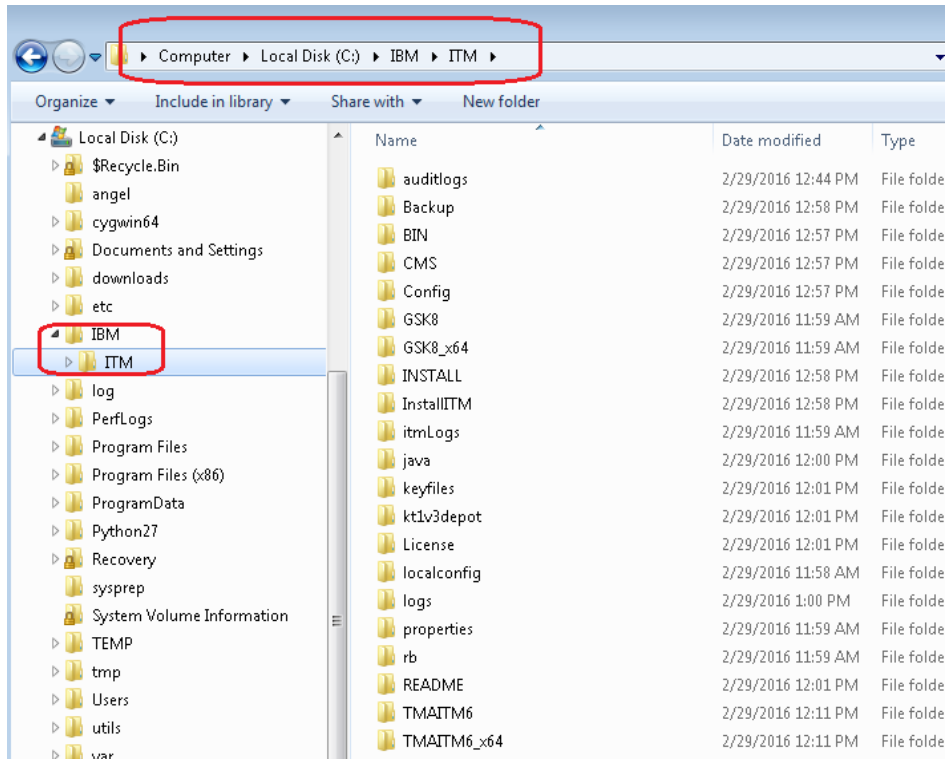
Notice that there is a new user:
  sysadmin
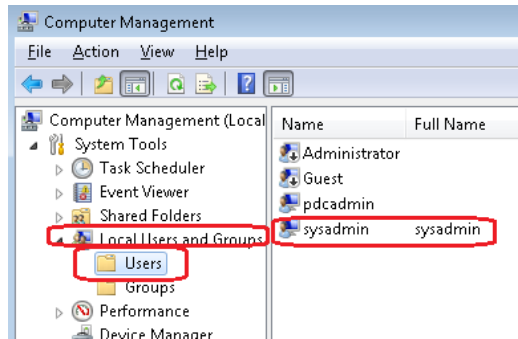
Under "Services and Applications", notice that there is a new Service:
  Tivoli Enterprise Monitoring Svcs - TEMS1

Open an Explorer window to see the folders.

Notice that a new directory was created:
  C:\IBM\ITM

OK, now let's proceed to install the GUI component that will help us to visualize the monitored environment.

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+++ Chapter 3: Installing the TEPS and TEPD Client
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Installing the Tivoli Enterprise Portal Server and the Tivoli Enterprise Portal Desktop Client.
(To keep the scenario as simple as possible, I did not install the browse-based client)

Go to the folder where the ITM code was downloaded and extracted (the same directory for
installing the TEMA and the TEMS).

Go to the WINDOWS subdirectory:

C:\downloads\ITM6302\BASE\ITM_V6.3.0.2_BASE_WIN_64_EN\WINDOWS

Similarly as in Chapter 2, launch the installation wizard by double-clicking the setup.exe
file in the \WINDOWS subdirectory
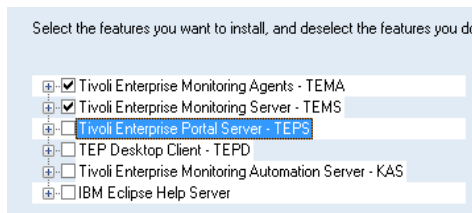You must do "right click" and select: Run as Administrator

Notice that the first screen indicates that the installer has detected that some components
have been installed already.
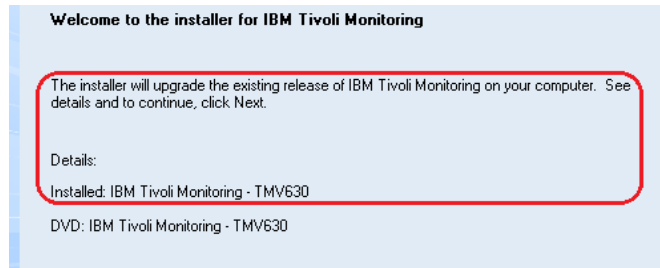
Click Next.

Accept the license.

Notice that the top 2 entries are already selected because they were installed in Chapter 2:
  TEMA and TEMS

Now let's select the TEPS:

In the Select Features window, select Tivoli Enterprise Portal Server - TEPS from the list of components to install.
The IBM Eclipse Help Server is automatically selected when you select the portal server.
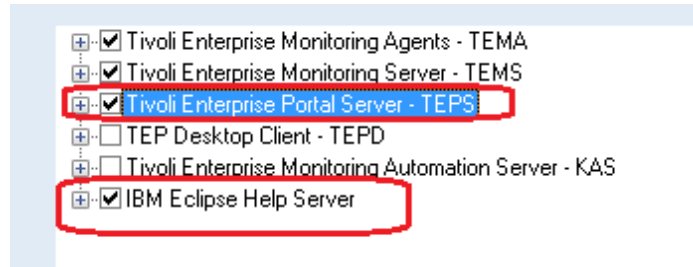
Expand TEPS and select/unselect components until the list looks like this:

(*) Tivoli Enterprise Portal Server - TEPS
  ( ) Monitoring Agent for i5/OS
  (*) Tivoli Enterprise Portal Server (86-x64 only)
  ( ) Warehouse Proxy
  (*) IBM Installation Manager
  (*) TEC GUI Integration
  (*) Monitoring Agent for Linux OS
  (*) Monitoring Agent for Windows OS
  ( ) Tivoli Performance Analyzer
  (*) Agentless Monitoring for Windows OS
  ( ) Agentless Monitoring for AIX OS
  (*) Agentless Monitoring for Linux OS
  ( ) Agentless Monitoring for HP-UX OS
  ( ) Agentless Monitoring for Solaris OS
  ( ) Summarization and Pruning Agent
  ( ) IBM Tivoli Monitoring 5.x Endpoint Support
  (*) Monitoring Agent for UNIX Logs
  (*) Universal Agent
 (*) Monitoring Agent for UNIX OS
(*) IBM Eclipse Help Server

The selection screen looks like this:
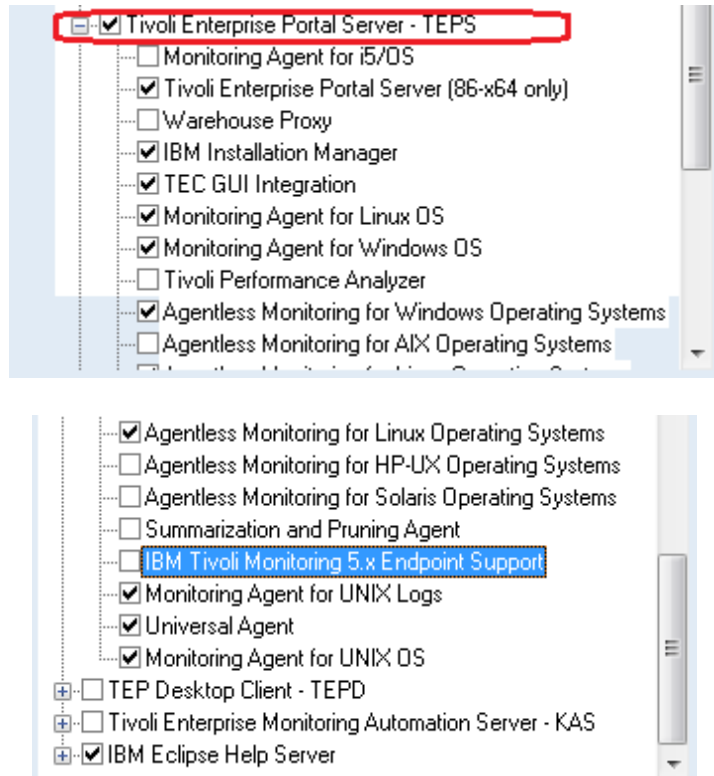
Now select the item for TEPD:

Select also
(*) TEP Desktop Cleitn -TEPD
  ( ) Monitoring Agent for i5/OS
  (*) Tivoli Enterprise Portal Server (86-x64 only)
  ( ) Warehouse Proxy
  (*) TEC GUI Integration
  (*) Monitoring Agent for Linux OS
  (*) Monitoring Agent for Windows OS
  ( ) Tivoli Performance Analyzer
  (*) Agentless Monitoring for Windows OS
  ( ) Agentless Monitoring for AIX OS
  (*) Agentless Monitoring for Linux OS
  ( ) Agentless Monitoring for HP-UX OS
  ( ) Agentless Monitoring for Solaris OS
  ( ) Summarization and Pruning Agent
  (*) Monitoring Agent for UNIX Logs
  (*) Universal Agent
  (*) Monitoring Agent for UNIX OS
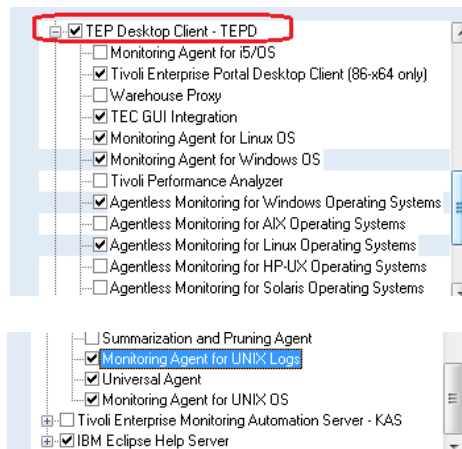
Click on Next.

Then the requisite checking took place and there were some failures:

FAIL   KCQ   C:\IBM\ITM\InstallITM\prereqscan\COMMON\result.txt
PASS   KCJ   C:\IBM\ITM\InstallITM\prereqscan\COMMON\result.txt
FAIL   Prerequisite Scanner Overall Result
C:\IBM\ITM\InstallITM\prereqscan\COMMON\result.txt

The failures were same as another component, in which Windows 7 was not listed in the supported OSs.
I decided to ignore this warning and continue with the installation.

The window "Agent Deployment" is a potentially confusing window.

Just select the corresponding components that were selected earlier:

  (*) 32/64 Bit Agent Compatibility Package (x86-64 only)
  ( ) Warehouse Proxy Agent (x86-64 only)
  ( ) Summarization and Pruning Agent (x86-64 only)
  (*) Tivoli Enterprise Services User Interface Extensions
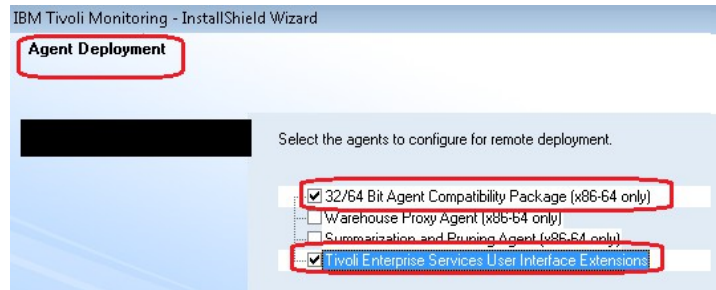
This is the list of items to be installed at this time:

A previous install has been detected and will be updated.
Install into Directory: C:\IBM\ITM
Add Program Folder: IBM Tivoli Monitoring

Available Disk Space: 70439 MB
Required Disk Space: 4409 MB
Deploy Required Disk Space: 237 MB
TEMP Total Disk Space Required: 600 MB
Total Disk Space Required: 5246 MB

Install the following features:

  Tivoli Enterprise Monitoring Agents - TEMA:
      32/64 Bit Agent Compatibility Package (x86-64 only)
      Tivoli Enterprise Monitoring Agent Framework
      Tivoli Enterprise Monitoring Agent Framework (x86-64 only)
      Tivoli Enterprise Services User Interface Extensions

  Tivoli Enterprise Monitoring Server - TEMS:
      Monitoring Agent for Linux OS
      Tivoli Enterprise Monitoring Server (86-x64 only)
      Monitoring Agent for Windows OS
      Agentless Monitoring for Windows Operating Systems
      Agentless Monitoring for Linux Operating Systems
      Monitoring Agent for UNIX Logs
      Universal Agent

Monitoring Agent for UNIX OS

Tivoli Enterprise Portal Server - TEPS:
　　Tivoli Enterprise Portal Server (86-x64 only)
　　IBM Installation Manager
　　TEC GUI Integration
　　Monitoring Agent for Linux OS
　　Monitoring Agent for Windows OS
　　Agentless Monitoring for Windows Operating Systems
　　Agentless Monitoring for Linux Operating Systems
　　Monitoring Agent for UNIX Logs
　　Universal Agent
　　Monitoring Agent for UNIX OS

TEP Desktop Client - TEPD:
　　Tivoli Enterprise Portal Desktop Client (86-x64 only)
　　TEC GUI Integration
　　Monitoring Agent for Linux OS
　　Monitoring Agent for Windows OS
　　Agentless Monitoring for Windows Operating Systems
　　Agentless Monitoring for Linux Operating Systems
　　Monitoring Agent for UNIX Logs
　　Universal Agent
　　Monitoring Agent for UNIX OS

TEP Web Browser Client:
　　Tivoli Enterprise Portal Browser Client
　　TEC GUI Integration
　　Embedded JVM - TEP Browser Client
　　Monitoring Agent for Linux OS
　　Monitoring Agent for Windows OS
　　Agentless Monitoring for Windows Operating Systems
　　Agentless Monitoring for Linux Operating Systems
　　Monitoring Agent for UNIX Logs
　　Universal Agent
　　Monitoring Agent for UNIX OS

IBM Eclipse Help Server:
　　IBM Eclipse Help Server

GSK component:
　　IBM GSKit Security Interface (86-x64 only)
　　IBM GSKit Security Interface

JVM component:
　　Embedded JVM (86-x64 only)

Embedded JVM

Tivoli Command Line Interface:
   Tivoli Enterprise Services User Interface

Configure the following Agents for deployment:
   32/64 Bit Agent Compatibility Package (x86-64 only)
   Tivoli Enterprise Services User Interface Extensions
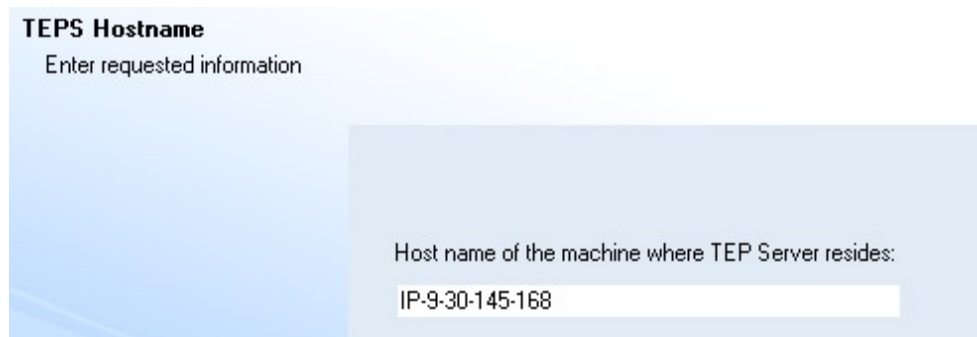
Click Next to start the installation.
After installation is complete, a configuration window (called the Setup Type window) is displayed.
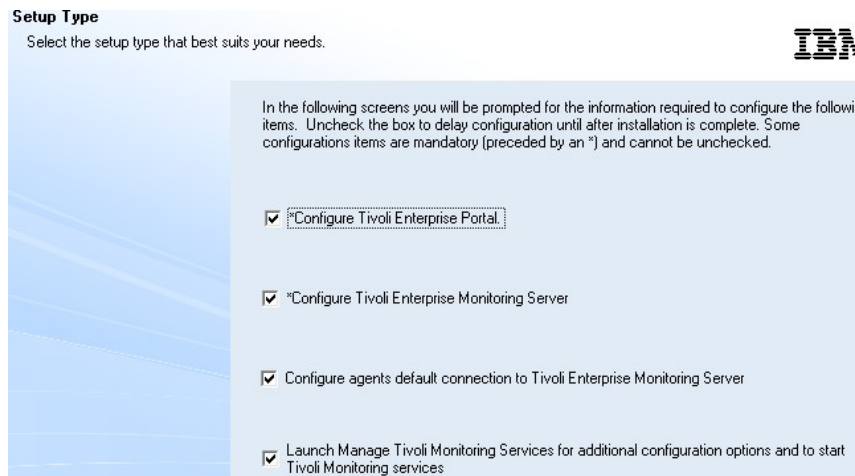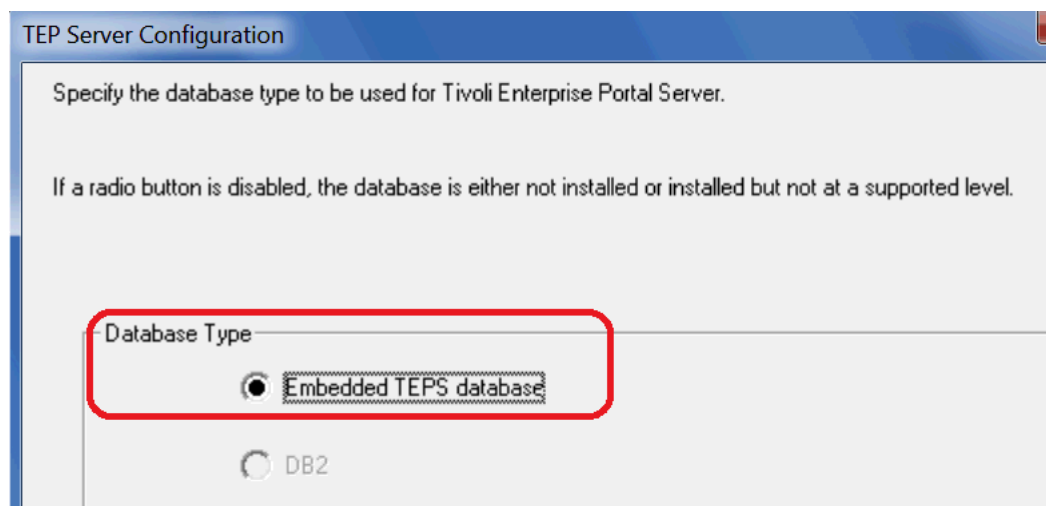

Accept the default selections and continue with the prompts.

The hostname of the computer where you are installing the portal server will be shown.
(The host name of this computer is displayed by default.)
Accept it. Click Next.

Accept the default for the database type:
  (*) Embedded TEPS database

Configure the connection between the portal server and the hub Tivoli Enterprise Monitoring Server.

Select the communications protocol that the monitoring server uses from the Protocol drop-down list. Click OK.

Enter the host name or IP address and the port number for the hub monitoring server. Click OK.

You will have to make the same configuration changes as you did in Chapter 2.
This is what the window looks like after using the IP address and adding IP.UDP.
The port number 1918 was used.
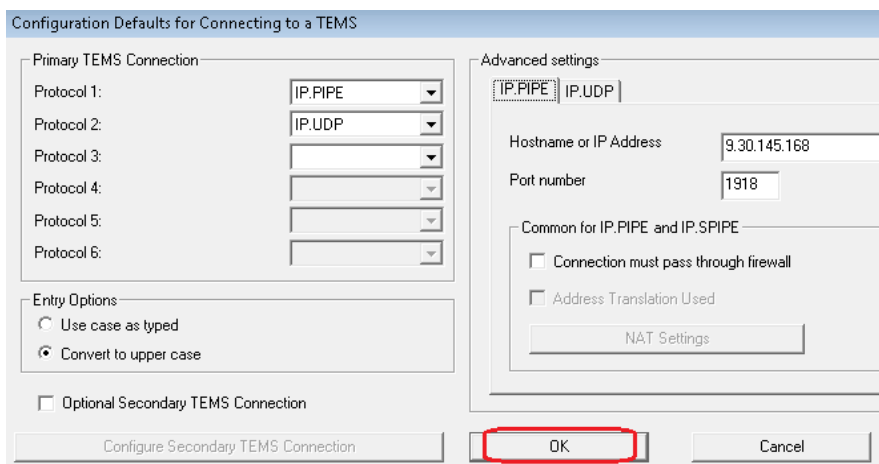
After making the configuration changes, click OK.
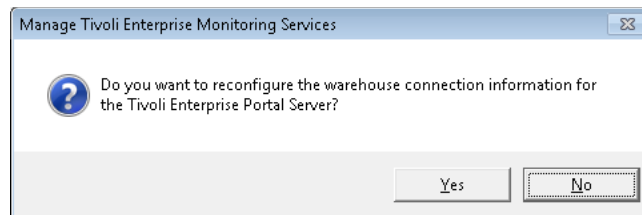
I accepted the defaults for:
  LDAP Security
and for:
  Dashboard data provider
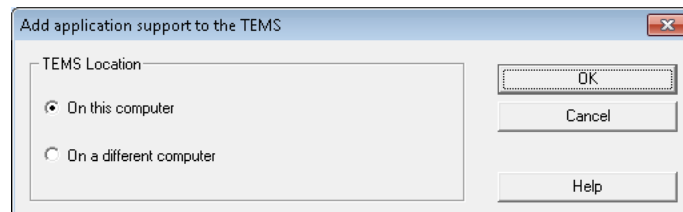That is, these items were NOT selected.
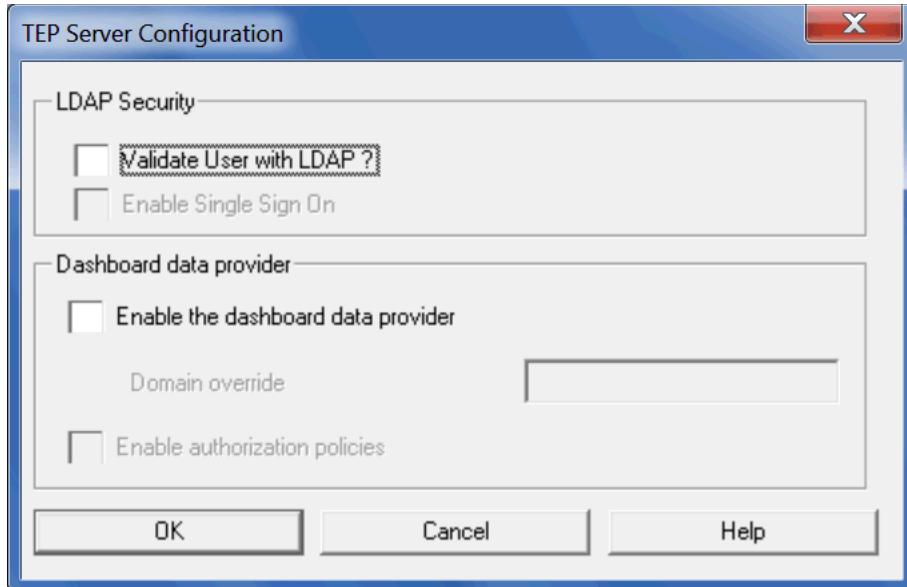
There was a question regarding the warehouse and database, I just ignored it by clicking "No" and continue with the prompts.

You will see the window "Add application support to the TEMS"
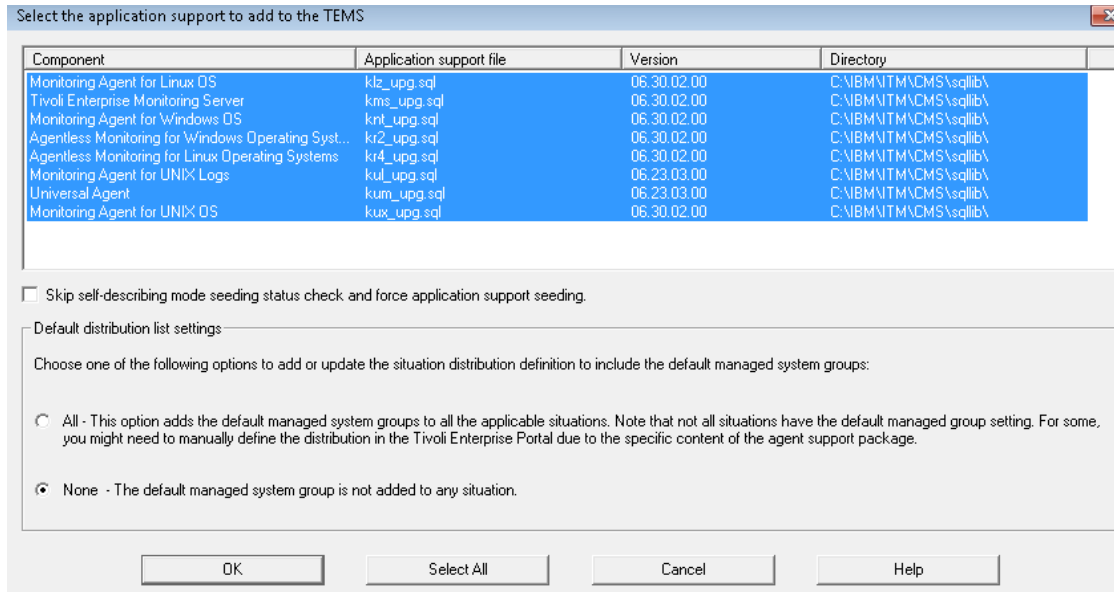
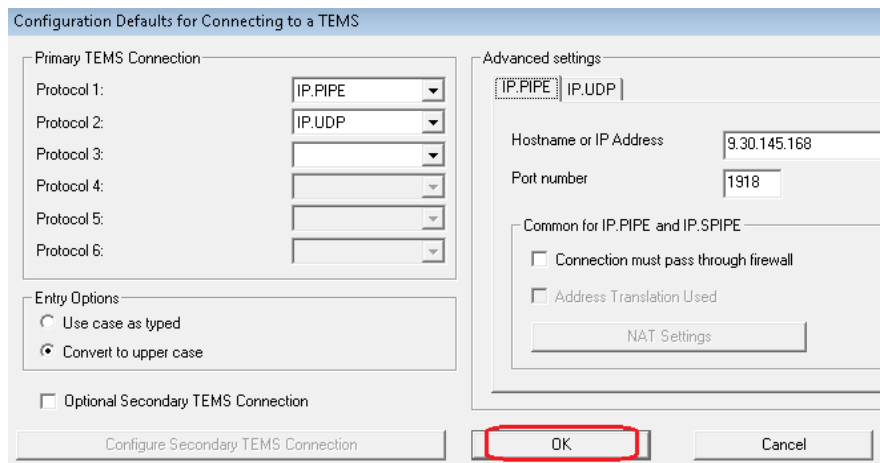Accept the TEMS location to be:
(*) On this computer

Accept the selections in "Select the application support to add to the TEMS" and the choice
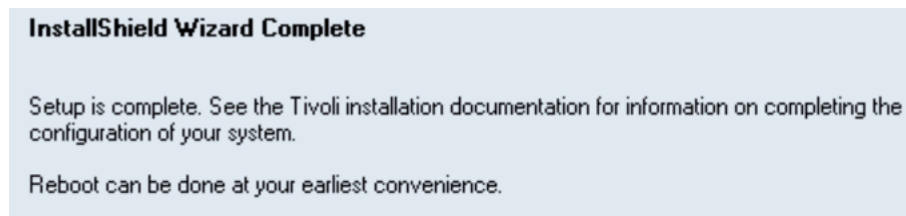of:
(*) None
... to continue. Click OK.

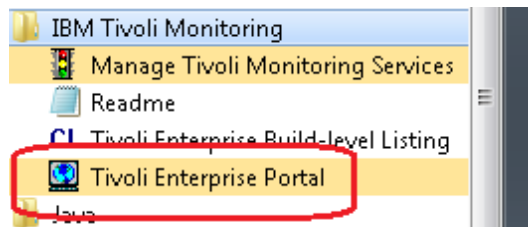Accept again and click OK.

Wait for the completion:

You will see additional entries in "Manage Tivoli Enterprise Monitoring Services":
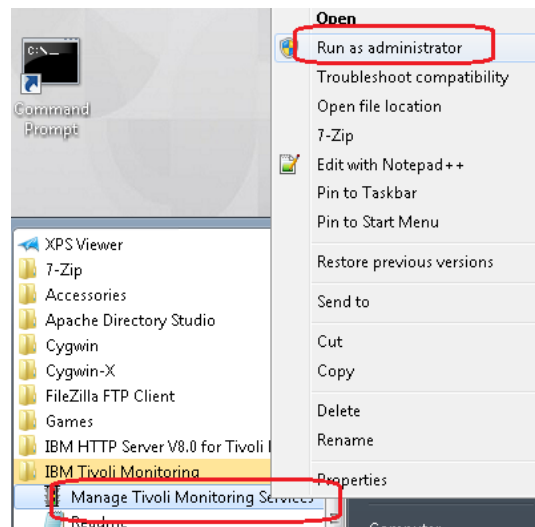

Then reboot.

After reboot, the Start menu has one more item under the folder for
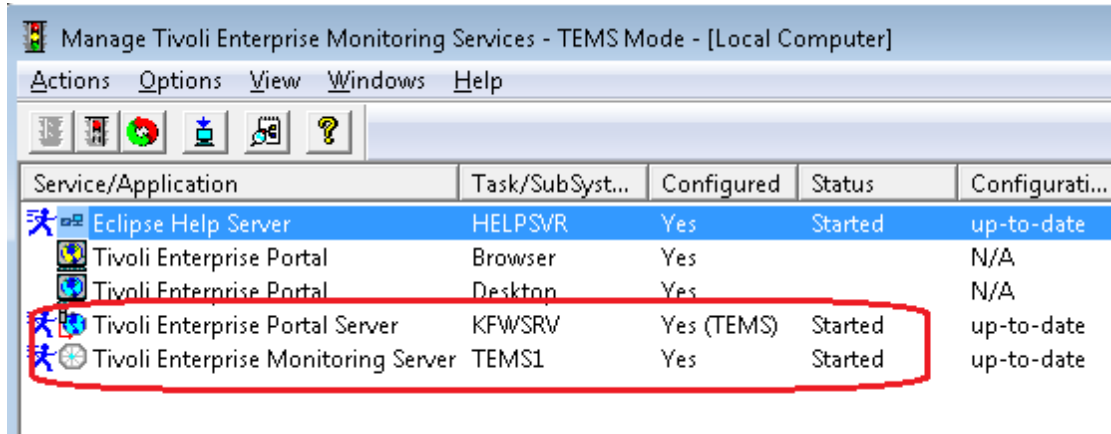IBM Tivoli Monitoring:
  Tivoli Enterprise Portal

Before starting the Tivoli Enterprise Portal, we need to ensure that the TEMS and the TEPS
are running.
Run as administrator, the "Manage Tivoli Monitoring Services":

In this case, yes, after the reboot, the TEMS and TEPS are running:

```
+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
+++ Chapter 4: Starting the Tivoli Enterprise Portal GUI
+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
```

Now we can start the Tivoli Enterprise Portal GUI.

Step 1: We can do it in 2 ways:

Option a) From the Start Menu, run "Tivoli Enterprise Portal".
Ensure to use right-click and "Run as Administrator"
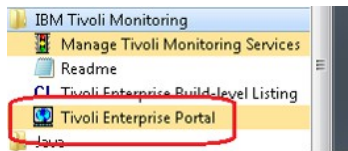
Option b) From the Manage Tivoli Enterprise Monitoring Services interface.
Select:
  Tivoli Enterprise Portal
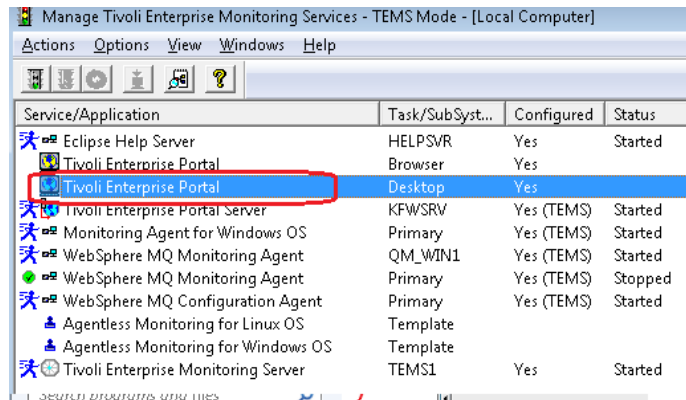
Then right click on "Start"
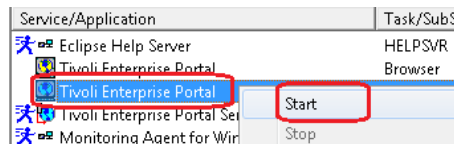
Step 2: From the TEP GUI, enter the userid "sysadmin" and the corresponding password (in this case is: passw0rd)
This is also known as the credentials.
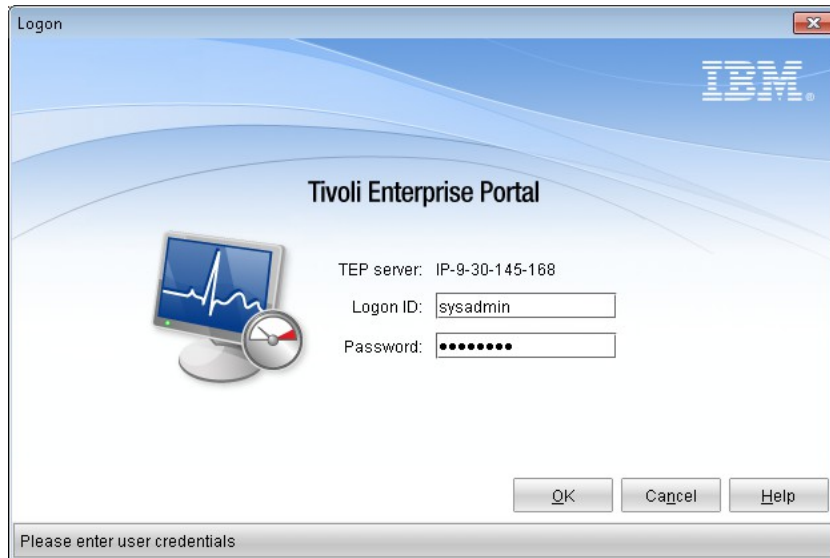
I accepted the certificate and specified the top choice:
  (*) Accept this certificate permanently

The TEP Desktop interface is shown.
Notice that there is only the top level "Enterprise" entry.
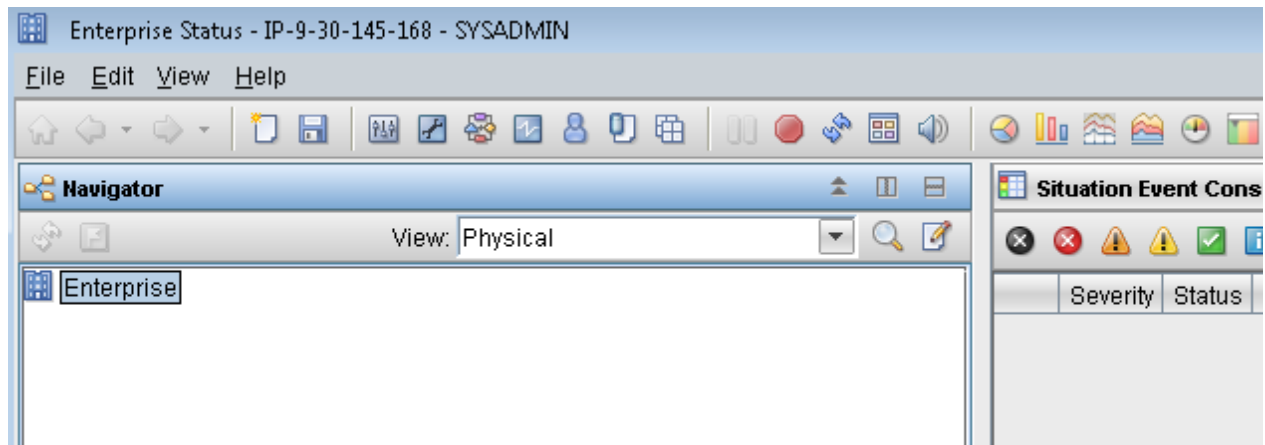
Exit the TEP Desktop.

We need to proceed to install the ITM agents.

```
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
+++ Chapter 5: Installing the ITM Agents
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
```

This is the component that has the basic Agents (not the MQ ones):

IBM Tivoli Monitoring V6.3.0.2 Agents , Multiplatform, Multilingual (CIQ3QML) 3,294MB
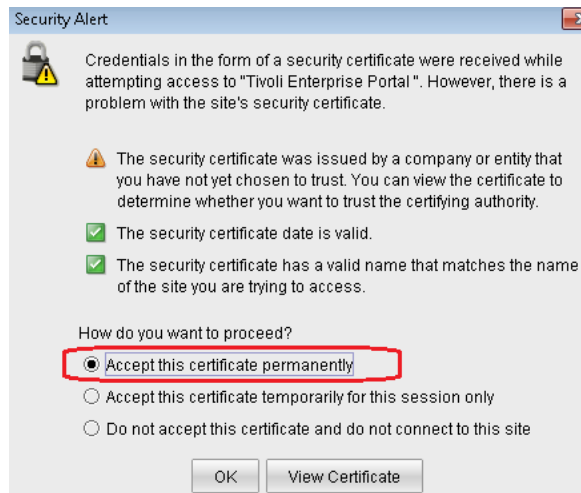File: ITM_V6.3.0.2_AGT_MP_ML.tar.gz
It was downloaded into:
C:\downloads\ITM6302\AGENTS\

You need to go to the subdirectory "WINDOWS":
cd C:\downloads\ITM6302\AGENTS\WINDOWS

Run as administrator the setup.exe
Follow the prompts.

Notice that it recognized that ITM is already installed and thus, we will upgrade the existing installation.

Welcome to the installer for IBM Tivoli Monitoring

The installer will upgrade the existing release of IBM Tivoli Monitoring on your computer. See details and to continue, click Next.

Details:

Installed: IBM Tivoli Monitoring - TMV630

DVD: IBM Tivoli Monitoring - TMV630
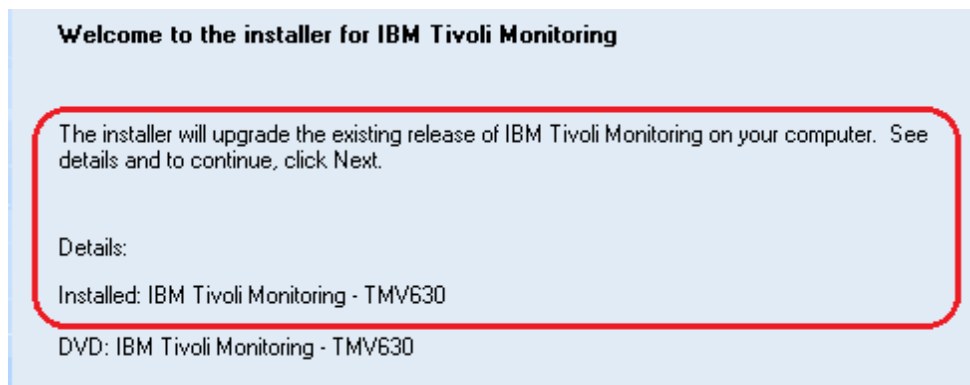
Click Next and proceed with the prompts.

In the screen "Select Features", select the following:

(*) Tivoli Enterprise Monitoring Agents - TEMA
  (*) 32/64 Bit Agent Compatibility Package (x86-64 only)
  (*) Tivoli Enterprise Monitoring Agent Framework
  (*) Tivoli Enterprise Monitoring Agent Framework (x86-64 only)
  ( ) Monitoring Agent for Windows OS (Note: is it 32-bit)
  (*) Monitoring Agent for Windows OS (x86-64 only)
  (*) Agentless Monitoring for Windows OS
  (*) Agentless Monitoring for Linux OS
... ( ) Agentless Monitoring for xxx OS
  (*) Tivoli Enterprise Services User Interface Extensions
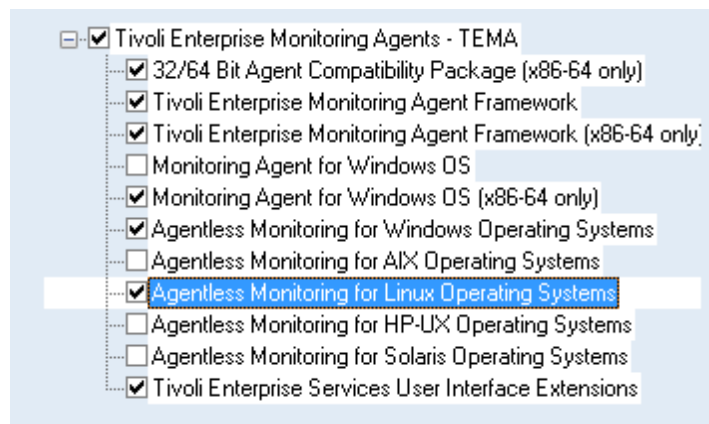
Click Next.
The prequisite checking takes place.
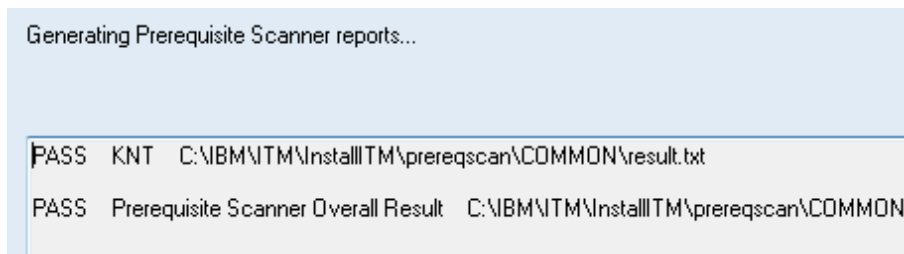
In this case, there were no problems.

Then you will see another screen asking a similar question for the remote deployment, and again, specify the above entries.

(*) Tivoli Enterprise Monitoring Agents - TEMA
  (*) 32/64 Bit Agent Compatibility Package (x86-64 only)
  (*) Tivoli Enterprise Monitoring Agent Framework
  (*) Tivoli Enterprise Monitoring Agent Framework (x86-64 only)
  ( ) Monitoring Agent for Windows OS (Note: is it 32-bit)
  (*) Monitoring Agent for Windows OS (x86-64 only)
  (*) Agentless Monitoring for Windows OS
  (*) Agentless Monitoring for Linux OS
... ( ) Agentless Monitoring for xxx OS
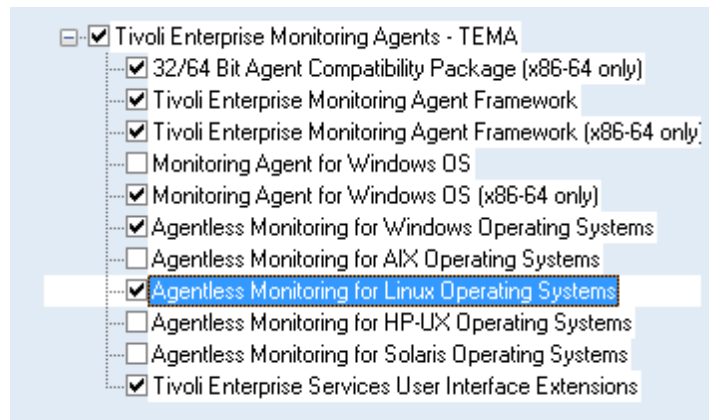 (*) Tivoli Enterprise Services User Interface Extensions

Continue with the prompts.

You will see a summary:

A previous install has been detected and will be updated.
Install into Directory: C:\IBM\ITM
Add Program Folder: IBM Tivoli Monitoring

Available Disk Space: 129015 MB
Required Disk Space: 519 MB
Deploy Required Disk Space: 728 MB
TEMP Total Disk Space Required: 100 MB
Total Disk Space Required: 1347 MB

Install the following features:

  Tivoli Enterprise Monitoring Agents - TEMA:
     32/64 Bit Agent Compatibility Package (x86-64 only)
     Tivoli Enterprise Monitoring Agent Framework
     Tivoli Enterprise Monitoring Agent Framework (x86-64 only)
     Monitoring Agent for Windows OS (x86-64 only)
     Agentless Monitoring for Windows Operating Systems
     Agentless Monitoring for Linux Operating Systems
     Tivoli Enterprise Services User Interface Extensions

  GSK component:
     IBM GSKit Security Interface (86-x64 only)
     IBM GSKit Security Interface

  JVM component:
     Embedded JVM (86-x64 only)
     Embedded JVM

  Tivoli Command Line Interface:
     Tivoli Enterprise Services User Interface

Configure the following Agents for deployment:
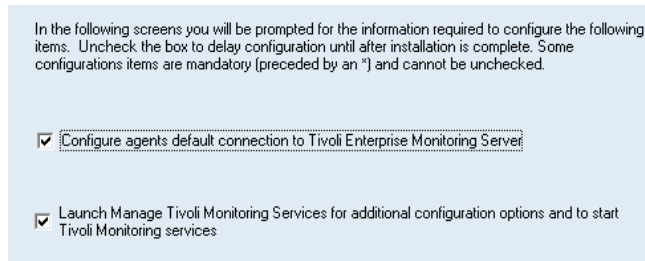   32/64 Bit Agent Compatibility Package (x86-64 only)
   Monitoring Agent for Windows OS (x86-64 only)
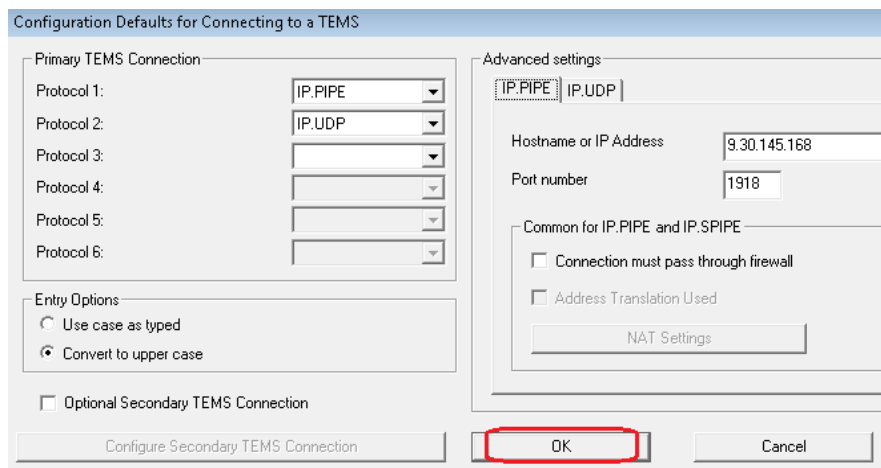   Agentless Monitoring for Windows Operating Systems
   Agentless Monitoring for Linux Operating Systems
   Tivoli Enterprise Services User Interface Extensions
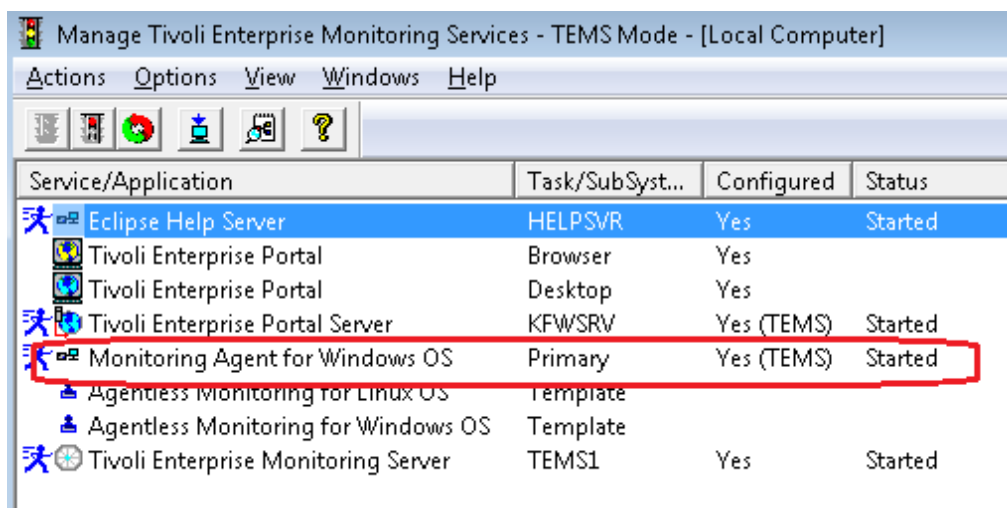
Continue with the installation.

In the following screens you will be prompted for the information required to configure the following items. Uncheck the box to delay configuration until after installation is complete. Some configurations items are mandatory (preceded by an *) and cannot be unchecked.

☑ Configure agents default connection to Tivoli Enterprise Monitoring Server

☑ Launch Manage Tivoli Monitoring Services for additional configuration options and to start Tivoli Monitoring services

Click OK:

Configuration Defaults for Connecting to a TEMS

Primary TEMS Connection

Protocol 1:   IP.PIPE
Protocol 2:   IP.UDP
Protocol 3:
Protocol 4:
Protocol 5:
Protocol 6:

Advanced settings

IP.PIPE | IP.UDP

Hostname or IP Address   9.30.145.168
Port number   1918

Common for IP.PIPE and IP.SPIPE
☐ Connection must pass through firewall
☐ Address Translation Used
NAT Settings

Entry Options
○ Use case as typed
● Convert to upper case

☐ Optional Secondary TEMS Connection

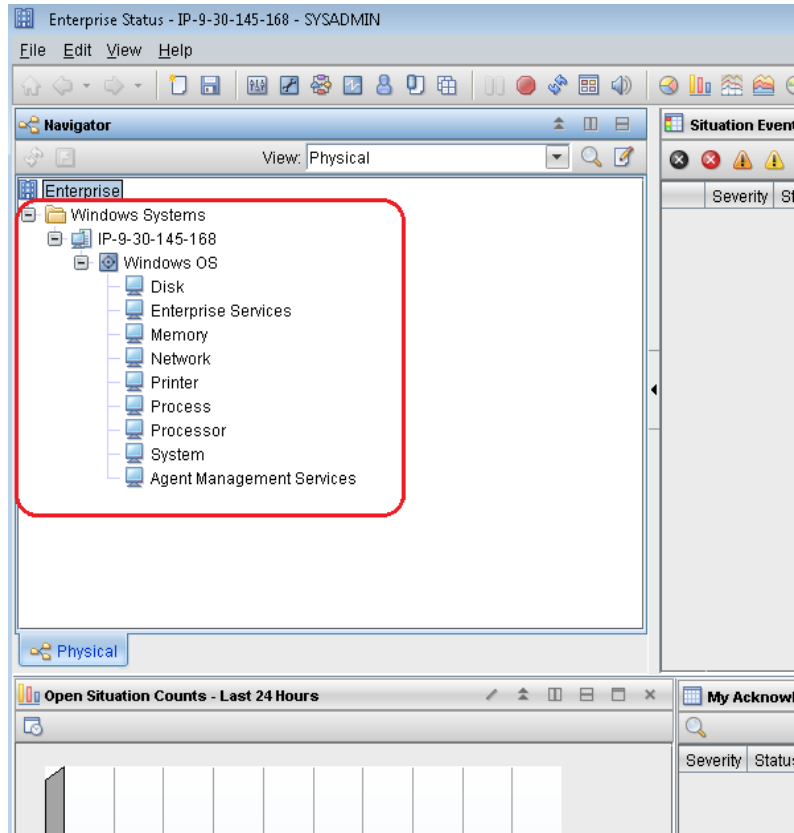Configure Secondary TEMS Connection   OK   Cancel

When finished, you will see the screen for:
  Manage Tivoli Enterprise Monitoring Services - TEMS Mode

Notice that there are new entries, among them:
  Monitoring Agent for Windows OS   (Started)

Manage Tivoli Enterprise Monitoring Services - TEMS Mode - [Local Computer]

Actions   Options   View   Windows   Help

Service/Application	Task/SubSyst...	Configured	Status
Eclipse Help Server	HELPSVR	Yes	Started
Tivoli Enterprise Portal	Browser	Yes	
Tivoli Enterprise Portal	Desktop	Yes	
Tivoli Enterprise Portal Server	KFWSRV	Yes (TEMS)	Started
Monitoring Agent for Windows OS	Primary	Yes (TEMS)	Started
Agentless Monitoring for Linux OS	Template		
Agentless Monitoring for Windows OS	Template		
Tivoli Enterprise Monitoring Server	TEMS1	Yes	Started

Now start the TEP Desktop.
This time we see the addition of:
 - Windows Sytems
    - IP-9-30-145-168
      - Windows OS

Let's click on the item for:
  Agent Management Services

We can see that there are 4 such services.

Now let's use some line commands.

First, you MUST open a command prompt for Windows and run it as an administrator:
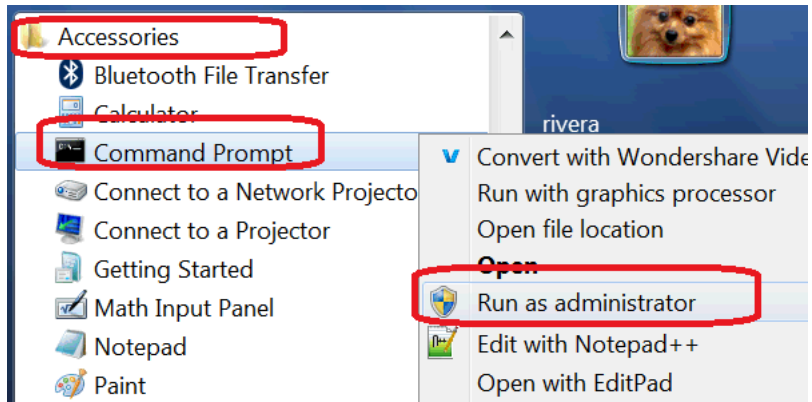
Notice that the title of the command prompt will be:
 Administrator: Command Prompt
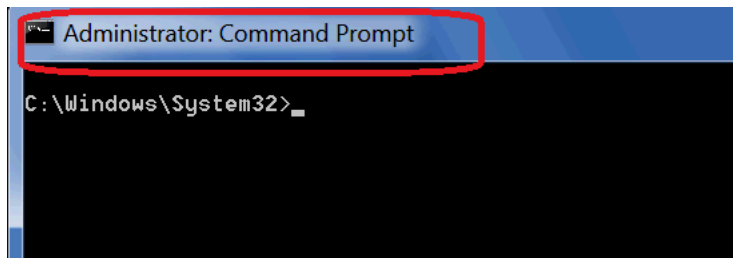
C:\Users\pdcadmin>
tacmd login -s ip-9-30-145-168.svl.ibm.com:1920 -u sysadmin -p passw0rd

Validating user...

KUIC00007I: User sysadmin logged into server on http://ip-9-30-145-168.svl.ibm.c
om:1920.

KUIC00008W: The connection you are using is not secure.

HUM!! The above warning could be a bit confusing, because it is just a WARNING, and you
were able to log in!
The first time I encountered this warning, I thought that my login failed, but it worked!
Thus, you just need to issue the next ITM command. See next page.

C:\Users\pdcadmin>
tacmd viewdepot
Product Code : NT-CHECKER
Version   : 063002000
Description : Prerequisite Checker for the Monitoring Agent for Windows OS
Host Type   : WIN
Host Version : WIN
Prerequisites: PRECHECK-BASE:063002000

Product Code : PRECHECK-BASE
Version   : 063002000
Description : Tivoli Prerequisite Checker
Host Type   : WIN
Host Version : WIN
Prerequisites:

Product Code : R2
Version   : 063002000
Description : Agentless Monitoring for Windows Operating Systems
Host Type   : WINNT
Host Version : WINNT
Prerequisites:

Product Code : UE
Version   : 063002000
Description : Tivoli Enterprise Services User Interface Extensions
Host Type   : WINNT
Host Version : WINNT
Prerequisites:
…
Product Code : NT
Version   : 063002000
Description : Monitoring Agent for Windows OS
Host Type   : WIX64
Host Version : WIX64
Prerequisites:

NEXT ACTION:

See the tutorial:
http://www.ibm.com/support/docview.wss?uid=swg27048600
Installation of ITCAM Agents 7.3 in Windows to monitor MQ queue managers
IBM Techdoc: 7048600

+++ end +++