Machete Installation Manual

Release 1.7.0

Savage Learning LLC

February 10, 2013

CONTENTS

CHAPTER

ONE

INTRODUCTION

Machete is a web application built on Microsoft Internet Information Server (IIS) using the ASP.NET MVC Framework. Installing Machete will require a user with basic Windows and Internet experience.

blah blah blah

> blah blah blah

> blah blah blah

- voo voo voo

> blah blah blah

CHAPTER

TWO

INSTALLATION

2.1 System Pre-Requisites

- Hardware
- Software

2.2 Web Platform Installer

2.3 Database Configuration

2.4 Create IIS Site

2.5 Configure Application Pool

coming soon!

CHAPTER

THREE

MAINTENANCE TASKS

3.1 Machete database backup

3.2 Weekly class creation

CHAPTER

FOUR

ONLINE ORDER FORMS

4.1 Overview

Machete offers the ability to receive work orders from other systems, such as public web sites. Orders from online systems are flagged as originating from an on-line system, then added to the Machete database like any other order originating from the user interface. This allows organizations to use an existing web site to capture work requests and forward them directly to Machete, or to integrate Machete into an existing Service Oriented Architecture (SOA) using HTTPS requests.

4.1.1 Security Concerns

Due to the nature of computer networks, when creating applications that receive business data from the Internet, precautions must be taken to protect against unwanted spamming or malicious hacking. To address this, Machete uses public key certificates (certs) to ensure that only authorized systems can create orders automatically. In simple terms, a cert is created for an external system, then installed in Machete's web server configuration. When a client attempts to connect, it must offer a cert that Machete knows to trust, or the connection will be ignored.

Any 3rd-party system can be configured to forward orders to Machete, provided that the system can offer the cert to Machete when it initiates the communication. Such functionality is common for modern web browsers and web automation languages (Python, Perl, C#).

4.1.2 Order Form Design

Most modern websites use a web framework such as WordPress or Drupal. These frameworks offer a large variety of plug-ins that provide common functionality to a web site developer, such as forms, blogs, and RSS feeds, and Machete takes advantage of these functions. Machete relies on the website's framework to create a form that captures the necessary information for the work order, and to store the order in the website's database. Once recorded, Machete will find the order through the use of scripts installed on the website's server, and forward order to Machete.

Machete also leverages the website framework for email notification. Most frameworks allow for email verification when a form is submitted. Machete uses this feature to confirm the order with the employer submitting the request by sending the employer an electronic receipt of the submission. The Machete scripts are then responsible for getting the order to the Machete system. if the script encounters a problem sending the order to Machete, it emails an alert to the administrator, which is defined in script configuration file.

4.2 Drupal 7 Add-On

The Machete add-on for Drupal consists of a series of scripts and scheduled tasks that interact with standard Drupal modules. The setup and maintenance of Drupal itself is beyond the scope of this document, which assumes that Drupal is installed and configured properly.

4.2.1 System Pre-requisites

A Mail Server

The Machete script saves errors to a log file and sends email notifications when an error occurs. The script assumes that an email service exists on the web server and is available for the script to use. Configuring the email server is beyond the script of this document.

The Machete script uses the Python smtplib to interact with the mail server. It has been tested using a local postfix mail server, but should also work other SMTP servers, such as Gmail. Documentation on smtplib can be found here: http://docs.python.org/2/library/smtplib.html

Python Interpreter & Modules

Python is the scripting language used for the Machete scripts on the website's server. Python 2.x will need to be installed on the web server and available to the user account executing the Machete scripts. Additionally, the scripts will need the following Python modules:

PIP Installer

PIP is a utility for installing Python packages automatically. You will need administrator privileges on the web server to install it. To do so, execute the following from a terminal window:

```
sudo apt-get install python-pip python-dev build-essential
```

If apt-get is not available, PIP can be found here: http://www.pip-installer.org/en/latest/

Once PIP is installed, use it to upgrade itself to the latest version:

```
sudo pip install –upgrade pip
```

Virtualenv Module

The Virtualenv module for Python allows scripts to create a virtual execution environment for the script, so that it does not interfere with other python installations.

```
sudo pip install –upgrade virtualenv
```

Requests Module

The Python Requests module handles the communication between the script and Machete using HTTPS. It is required for the script to function. To install it, execute the following on the web server:

```
pip install requests
```

Information on the Requests module can be found at the following link: http://docs.python-requests.org/en/latest/user/install/

Python mysqldb Module

The Python Mysqldb Module allows the script to query Drupal's database (mysql). This module is required for the script to function. To install it, execute the following on the web server:

```
sudo apt-get build-dep python-mysqldb pip install MySQL-python
```

For more information on Python integration with Mysql, see the following link: http://sourceforge.net/projects/mysql-python/

4.2.2 Drupal Pre-requisites

An existing Drupal installation

See http://drupal.org for more information on Drupal. Many shared hosting sites offer Drupal support.

Drupal Modules

- **Webform**: http://drupal.org/project/webform

  Webform is a module that aids in making various one-off forms such as contact forms, surveys, order forms, reservations, CRM requests, and more.

- **webform_validation**: http://drupal.org/project/webform_validation

  Webform Validation adds an extra tab to each webform node, allowing you to specify validation rules for your webform components.

4.2.3 Installation

Create Drupal form

Use the Drupal framework to create a webform. See the following link for documentation pertaining to creating a Drupal webform: http://drupal.org/documentation/modules/webform

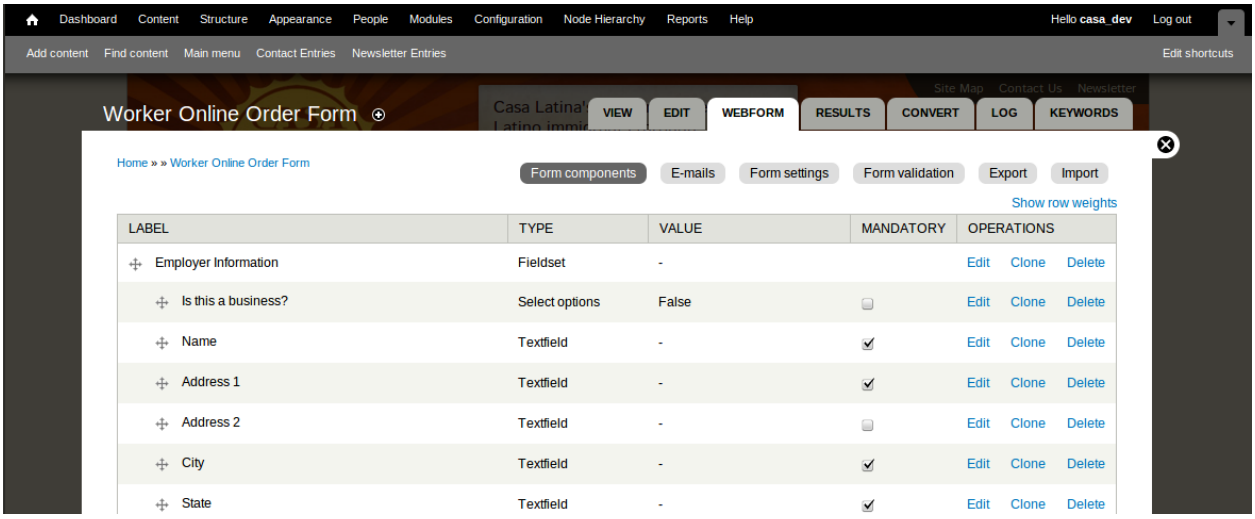


Figure 4.1: The Drupal WebForm configuration page

Machete has a set number of fields for creating an Employer record and a Work Order record, and the webform must provide values for all required fields. A few fields are not required, and can be provided or left blank by the webform. Therefore, when creating the webform, the following fields must be created. Using the fields names below in the webform will also simply subsequent steps.

The following is a list of the fields expected by the Machete script:

Field Name	Data type	Required?	Description
business	boolean	yes	
name	string	yes	
address1	string	yes	
address2	string		
city	string	yes	
state	string	yes	
zipcode	string	yes	
phone	string	yes	Primary phone
cellphone	string		Secondary phone
email	string		
referredBy	int		The integer values are configured in Machete. The webform must use the same
referredbyOther	string		
blogparticipate	boolean	yes	
returnCustomer	boolean	yes	
notes	string		Free form text related to the employer
contactName	string	yes	
workSiteAddress1	string	yes	
workSiteAddress2	string		
wo_city	string	yes	
wo_state	string	yes	
wo_zipcode	string	yes	
wo_phone	string	yes	
typeOfWorkID	int	yes	The integer values are configured in Machete. The webform must use the same
englishRequired	boolean	yes	
englishRequiredNote	string		Free form text about language requirements
lunchSupplied	boolean	yes	
description	string		Free form text related to the work order
date_needed	string	yes	
time_needed	string	yes	
timeFlexible	boolean	yes	
transportMethodID	int	yes	The integer values are configured in Machete. The webform must use the same

Map webform IDs to Machete fields

Once the webform is created, you will need to interrogate the webform and find the webform's internal IDs for the created form, and each field within the form. These IDs will be used by the Machete script to find the online orders inside the Drupal database and forward the order to Machete.

The simplest way to get the IDs is to export the form using the Export feature on the webform configuration page. Clicking the Export button on the upper-right side of the page will prompt to save a text file. The file is a (serialized) export of the webform, and contains all the internal IDs necessary.

you will need to customize the Machete scripts to match the IDs in your webform. The Machete script uses the IDs to extract values from Drupal's webforms database. Once it has the values, it sends them to Machete using the certs configured in subsequent sections. Using a text editor, do the following:

1. Edit the `employer_form.ini` file. Replace the number under the `[webform]` tag with the number embedded in the Export file's name. This is the Drupal `nid` ID for the webform.
2. Edit the `employer_combined.py` script. This is the script that reads the Drupal database, finds the webform entries, and processes them. At the top of the script, there is a `fields` array, which maps ID numbers to the Machete fields. You will need to search the Export file for the `cid` ID of each field, and replace the number in

the script with the number from the file. The numbers are assigned by Drupal–you must complete the mapping so that the Machete script knows which cid fields go with which Machete field.

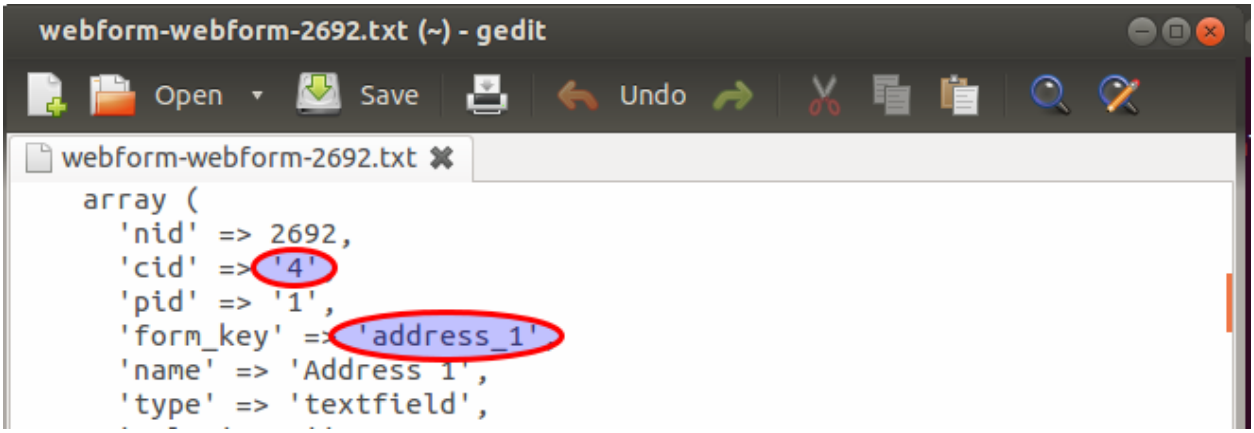


Figure 4.2: Mapping cids from the export file

Add tracking table to database

To track which webform entries have been sent to Machete, a new table must be added to the Drupal database. The table tracks the internal sid ID of webform order, whether it was successfully transmitted, how many attempts it took to transmit the order, and the date of the last attempt.

Execute the following statement from the mysql CLI:

> create table webform_machete (sid int not null primary key, success boolean not null default 0, tries int, last_attempt datetime)

This SQL statement will create the table and its four fields with the proper settings. To verify that the table is created properly, execute the following from the mysql CLI:

> show columns from webform_machete;

The show columns command will give a simple text-based display of the table, its four fields, and their properties.

```
mysql> use casalatinaorg;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> show columns from webform_machete;
+--------------+------------+------+-----+---------+-------+
| Field        | Type       | Null | Key | Default | Extra |
+--------------+------------+------+-----+---------+-------+
| sid          | int(11)    | NO   | PRI | NULL    |       |
| success      | tinyint(1) | NO   |     | 0       |       |
| tries        | int(11)    | YES  |     | NULL    |       |
| last_attempt | datetime   | YES  |     | NULL    |       |
+--------------+------------+------+-----+---------+-------+
4 rows in set (0.00 sec)

mysql>
```

Figure 4.3: Verifying webform_machete table creation

Schedule Machete script execution

The Machete script needs to be scheduled to run in order to execute, find new orders, and process them. On UX-type systems, a cron entry will execute the script periodically. To add the entry, execute the following command with root privileges:

```
crontab -e
```

On most systems, this will load the cron settings (crontab) in a text editor. Add the following line at the bottom of the crontab.

```
*/5 * * * * bash -c "cd /home/user/pymachete;/usr/bin/python /home/user/pymachete/employer_combined.py"
```

Save the crontab. The script will execute based on the cron entry.

Certificate configuration

A x509 certificate is used to secure communications between the website and Machete. The following steps must be completed for the communication to work safely and successfully:

1. Create the x509 certificate on the website
2. Make the certificate available to the Machete script
3. Create a secure IIS web site instance on Machete
4. Add the certificate's public key to the secure site's configuration
5. Verify proper configuration by running the Machete script

Create x509 certificate

Creating certificates is a non-trivial task. Certificates incorporate complex cryptography and are somewhat tedious. For a more thurough treatment of how to make a certificate and what each step does, see the following link:

https://help.ubuntu.com/10.04/serverguide/certificates-and-security.html

For Machete, the following steps have been used successfully, and were taken from the above link. If you encounter problems creating the certificate, refer to the link first and identify what, if anything, you did differently.

- openssl genrsa -des3 -out example.key 1024
- openssl rsa -in example.key -out example.key.insecure
- mv example.key example.key.secure
- mv example.key.insecure example.key
- openssl req -new -key example.key -out example.csr
- openssl x509 -req -days 365 -in example.csr -signkey example.key -out example.crt

Make available to Machete script

Once the example.crt cert and the example.key exist, copy them to the website server. Or, if you executed the above steps on the server, move the cert file to the location of the Machete scripts. You can, and probably should, rename the files to be a little more descriptive too.

The Machete script's ini file has a config entry for the script, so you can store the files wherever you wish, but it makes sense to keep all the components of the Machete script in the same location. Edit the `employer_form.ini` file and update the `cert` entry and the `key` entry to the locations of the files.

```
[machete]
base_url=https:/
user=online.orderform
pw=
cert=/home/webdev/pymachete/cert/casaweb2.crt
key=/home/webdev/pymachete/cert/casaweb2.key
```

Figure 4.4: Editing employer_form.ini file, adding certificate information

Create secure IIS site instance

Add certificate to site

Verify Configuration

Add to Firefox - Allows you to access the Machete interface using the certificate

- create a pkcs12 file from the x.509 public cert and private key
- openssl pkcs12 -export -in example.crt -inkey example.key -out example.p12

In Firefox, import

- Edit > Preferences > Advanced > Encryption > View Certificates > Your Certificates > Import the p12 file

CHAPTER

FIVE

WINDOWS 7 INSTALLATION

This document is a HOWTO for installing Machete on a Windows 7 OS system. It captures each step either as a screenshot, or narrative text, guiding the reader through the installation. For a more detailed explanation on installing Machete, see Chapter 2, Installation.

5.1 Install Internet Information Server

Click: Start -> All Programs -> Control Panel -> Programs and Features

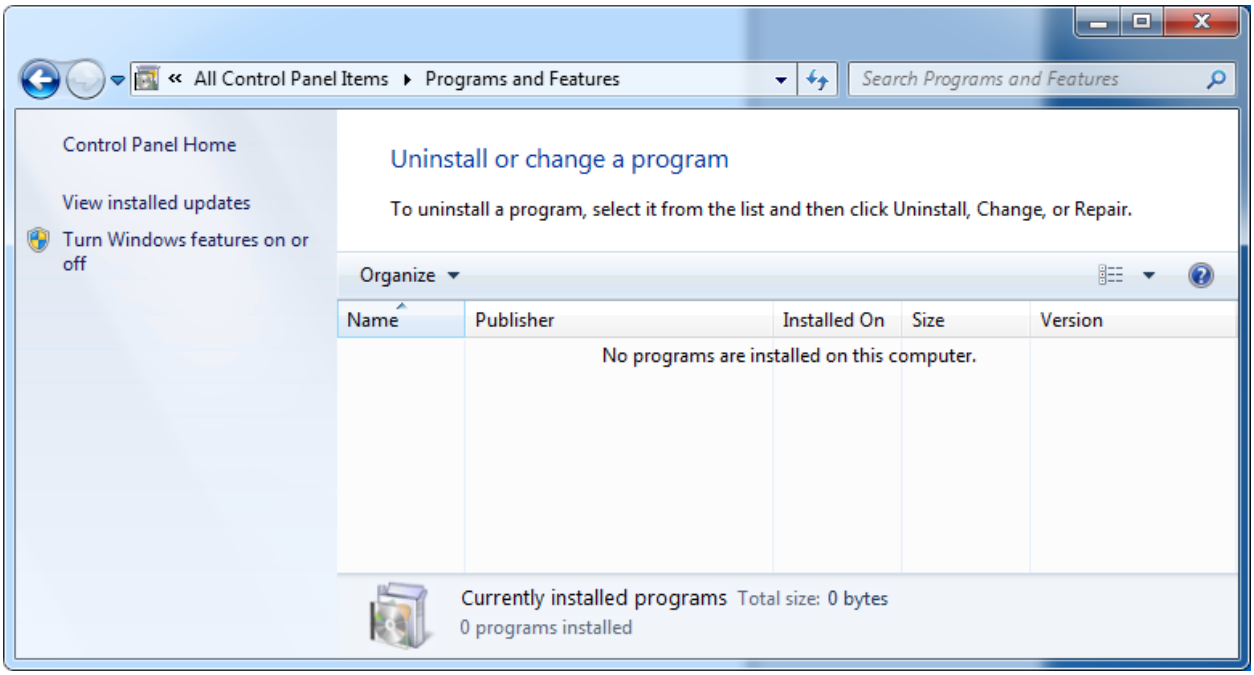


Figure 5.1: Control Panel

Click “Turn Windows features on or off”

select “Internet Information services” and select “OK”

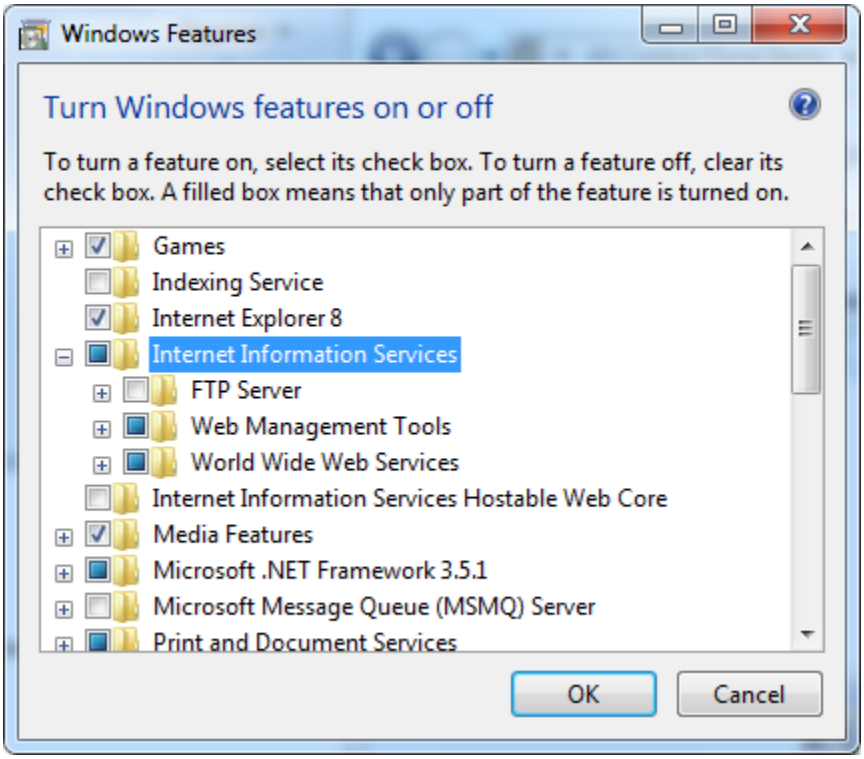


Figure 5.2: Windows Features

5.2 Check the IIS installation

Start -> All Programs -> Internet Explorer (Or Chrome, or Firefox)

Go to address: http://localhost/

If IIS is running correctly, it will display the default IIS page (seen above).

5.3 Configure Machete host name

Start -> All Programs -> Accessories -> Notepad [Right-click -> **Run As Administrator**]

(click 'yes' on the security authorization)

Using notepad, open the file C:\Windows\System32\drivers\etc\hosts

put "*.*" in the File name to see all the files

select "hosts"

Add "127.0.0.1 machete" to the hosts file.

Save the file.

Use Internet Explorer (or Chrome, or firefox). Check that http://machete/ works.

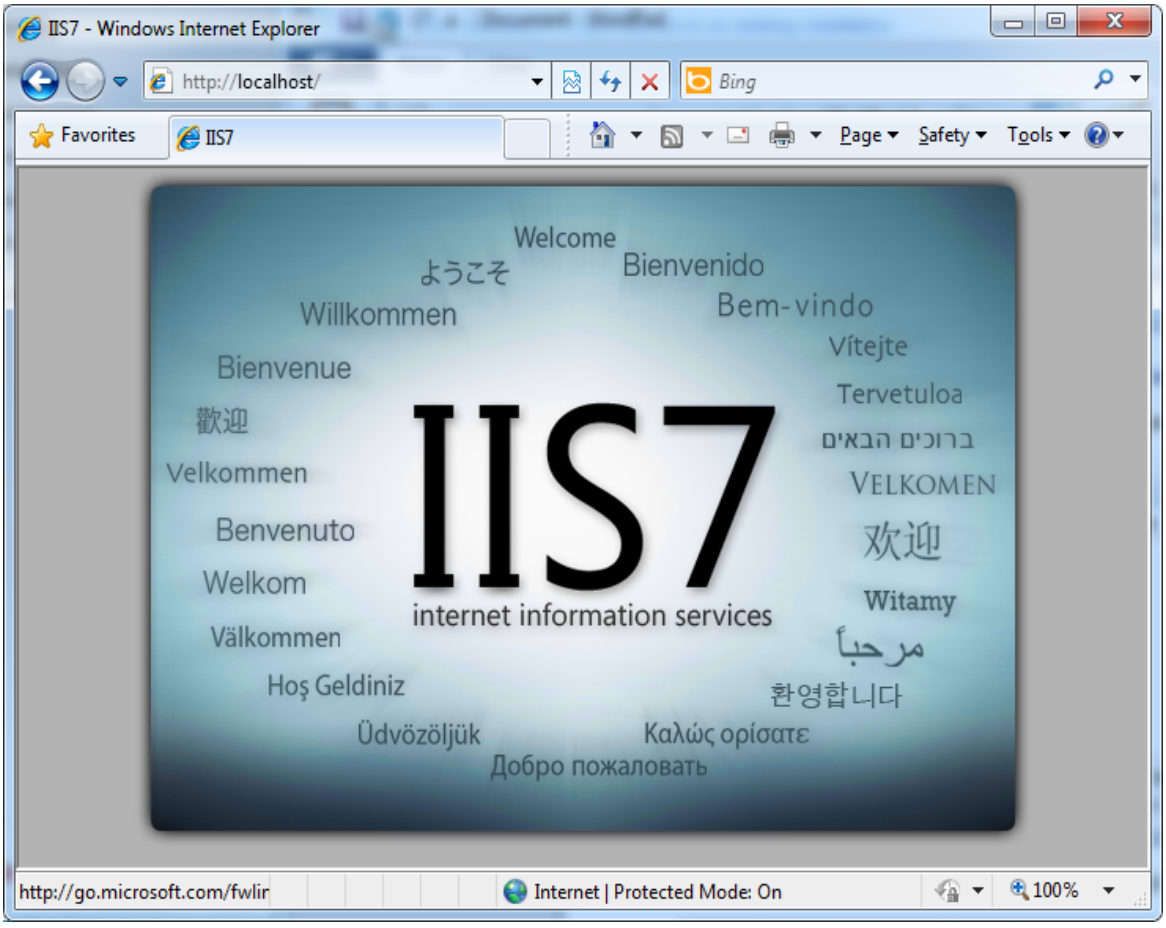
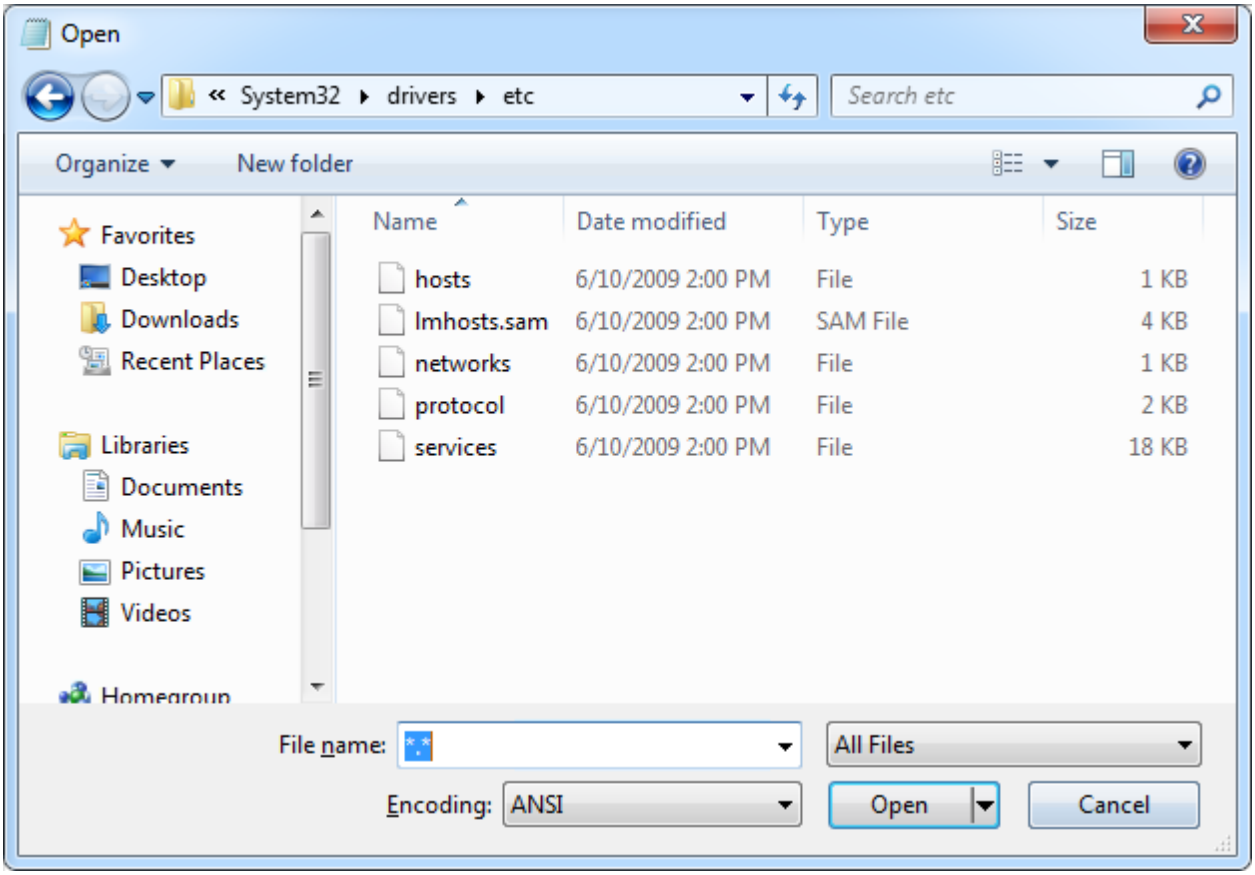
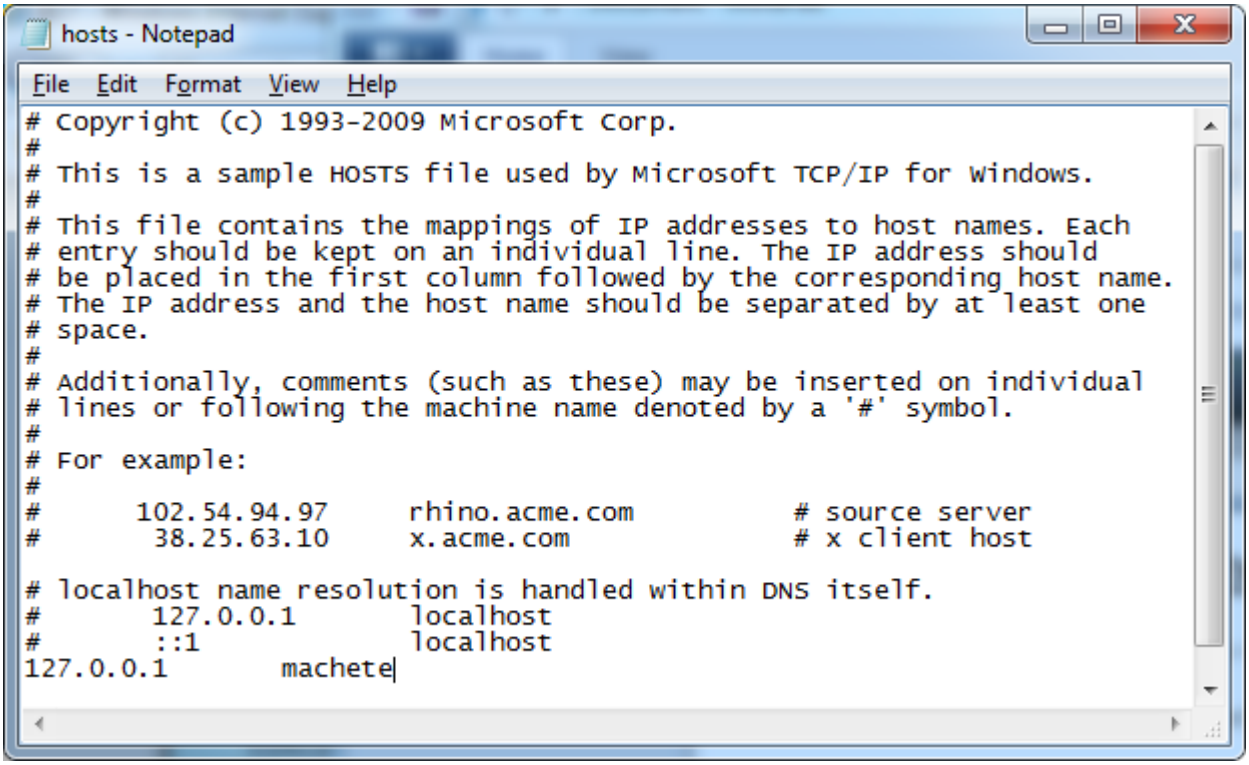
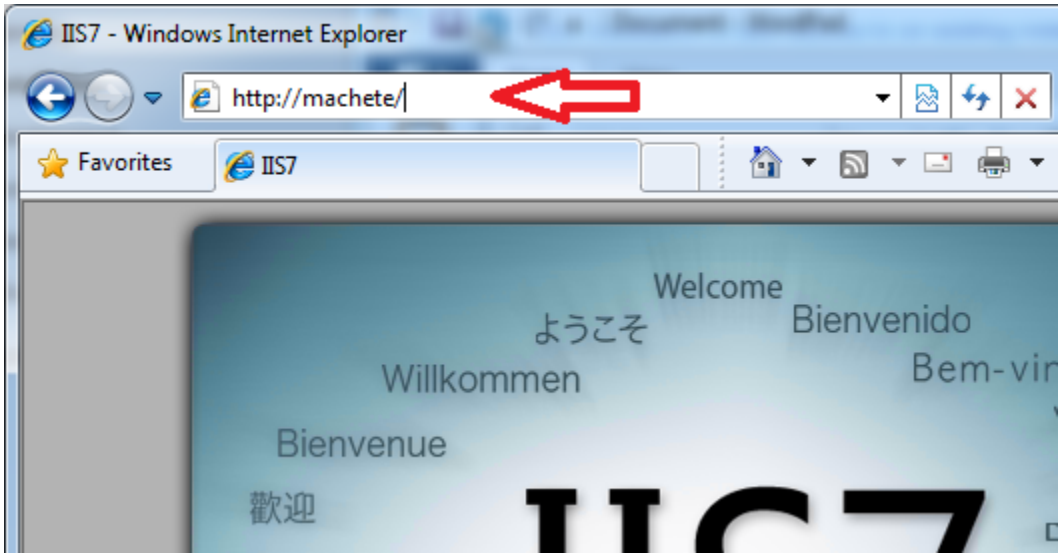


Figure 5.3: IIS default page


Open
« System32 ▸ drivers ▸ etc
Search etc
Organize
New folder
Favorites
Desktop
Downloads
Recent Places
Libraries
Documents
Music
Pictures
Videos
Homegroup
Name
Date modified
Type
Size
hosts 6/10/2009 2:00 PM File 1 KB
lmhosts.sam 6/10/2009 2:00 PM SAM File 4 KB
networks 6/10/2009 2:00 PM File 1 KB
protocol 6/10/2009 2:00 PM File 2 KB
services 6/10/2009 2:00 PM File 18 KB
File name:
All Files
Encoding: ANSI
Open
Cancel


hosts - Notepad
File Edit Format View Help
Copyright (c) 1993-2009 Microsoft Corp.
#
This is a sample HOSTS file used by Microsoft TCP/IP for Windows.
#
This file contains the mappings of IP addresses to host names. Each
entry should be kept on an individual line. The IP address should
be placed in the first column followed by the corresponding host name.
The IP address and the host name should be separated by at least one
space.
#
Additionally, comments (such as these) may be inserted on individual
lines or following the machine name denoted by a '#' symbol.
#
For example:
#
102.54.94.97   rhino.acme.com   # source server
38.25.63.10   x.acme.com   # x client host
localhost name resolution is handled within DNS itself.
127.0.0.1   localhost
::1   localhost
127.0.0.1   machete



5.4 Install Web Platform Installer

5.4.1 Download the Web Platform Installer from Microsoft

http://www.microsoft.com/download/en/details.aspx?id=6164

Click Download for either x86 / x64, depending on the platform

Click Run on the Download page

Click Run on the Security warning

Click “I accept the terms in the License Agreement”

Click “Install”

Click “Yes” on the User Account Control (another security warning)

Click “Finish”

Start -> Microsoft Web Platform Installer

Click “Yes” on the User Account Control (the security dialog)

Click “Products”

Find and Click Add next to “Microsoft .NET Framework 4”

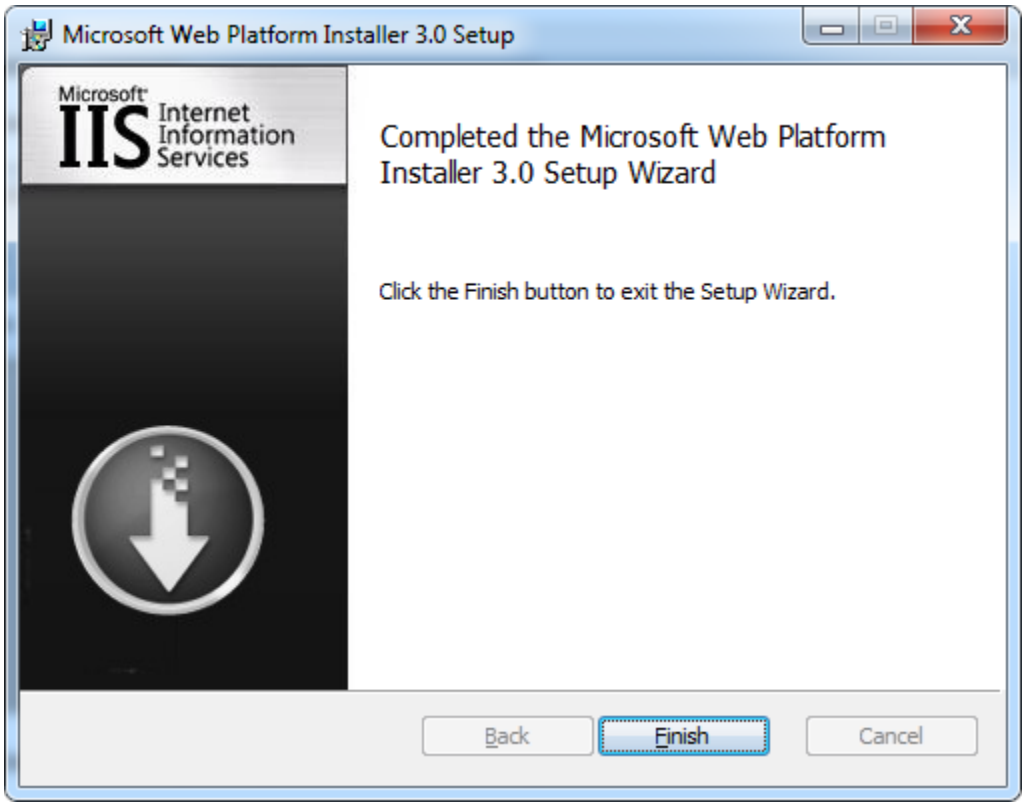
Click “Install”

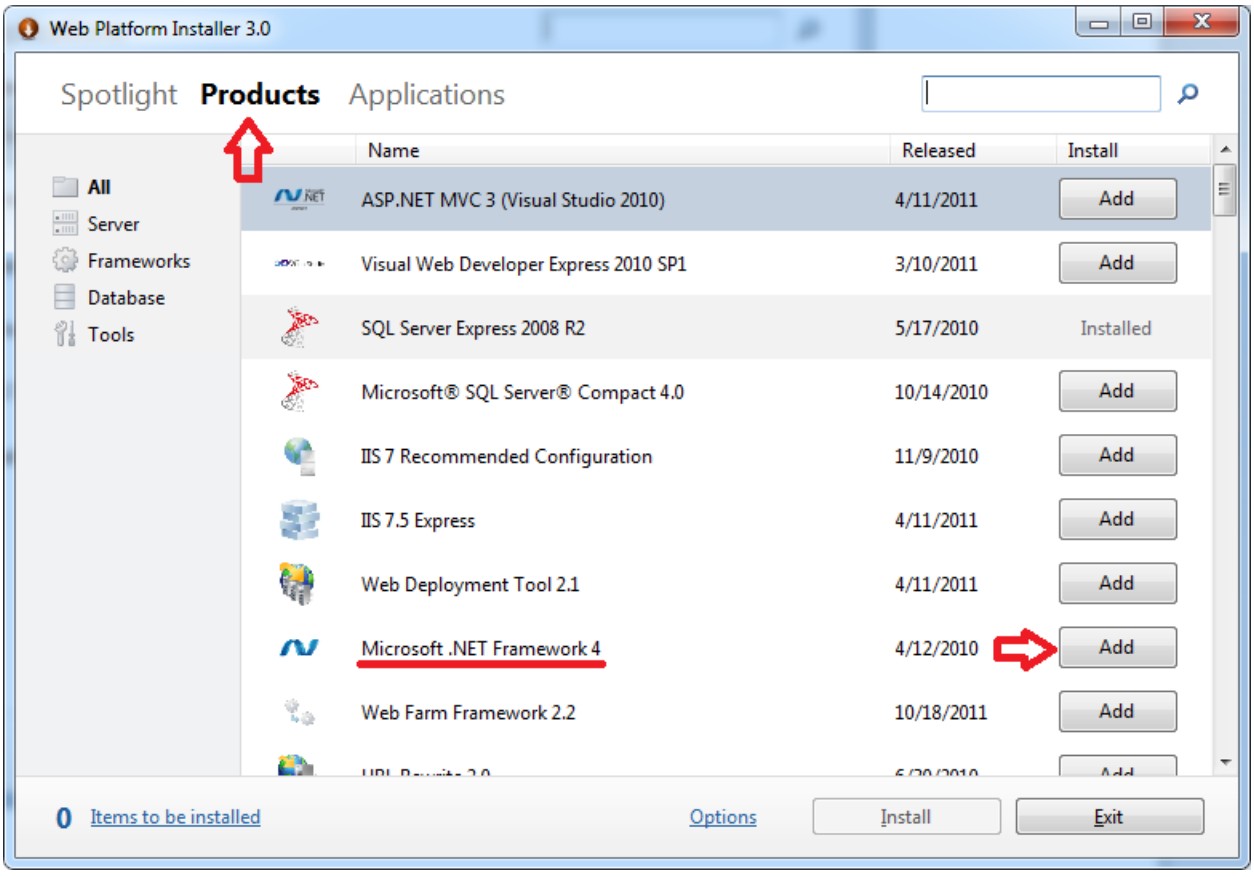
Click “I Accept”

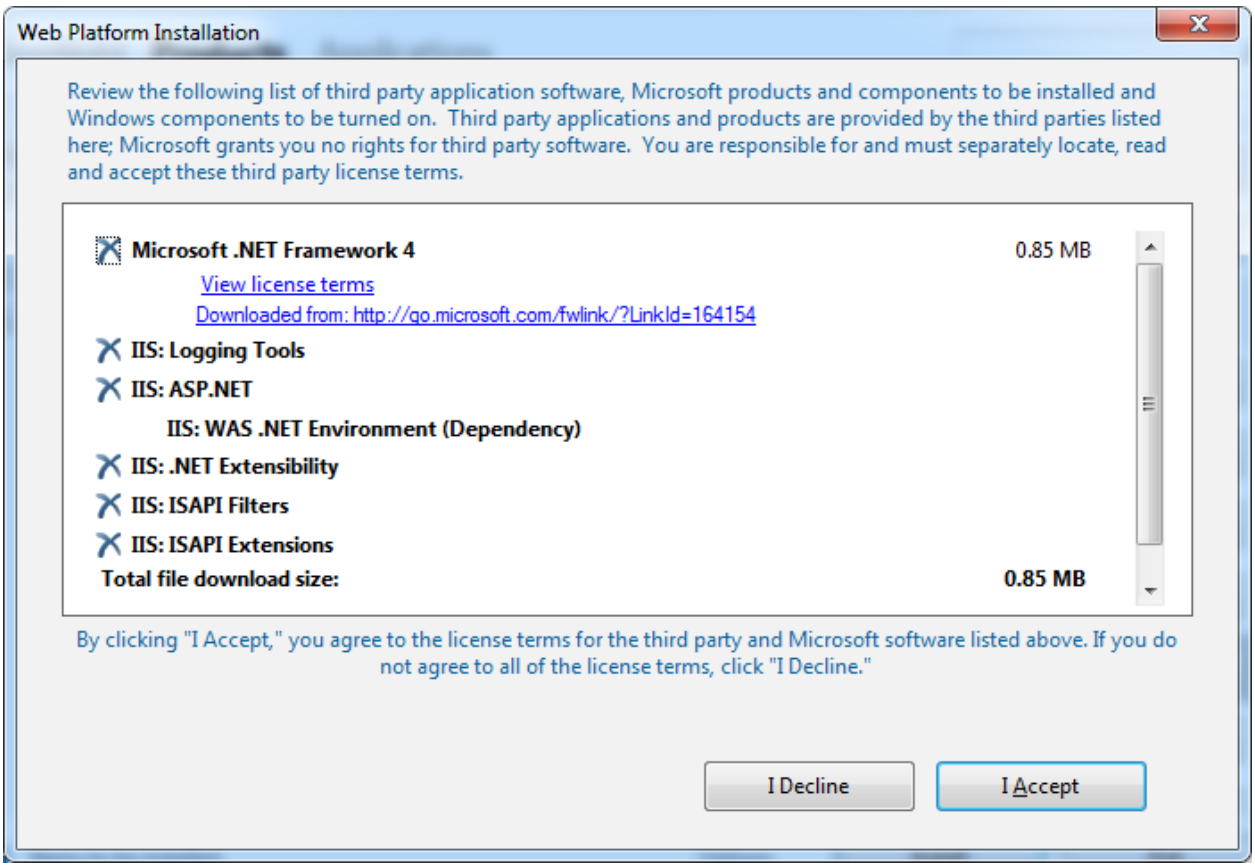
Click “Yes” and reboot.

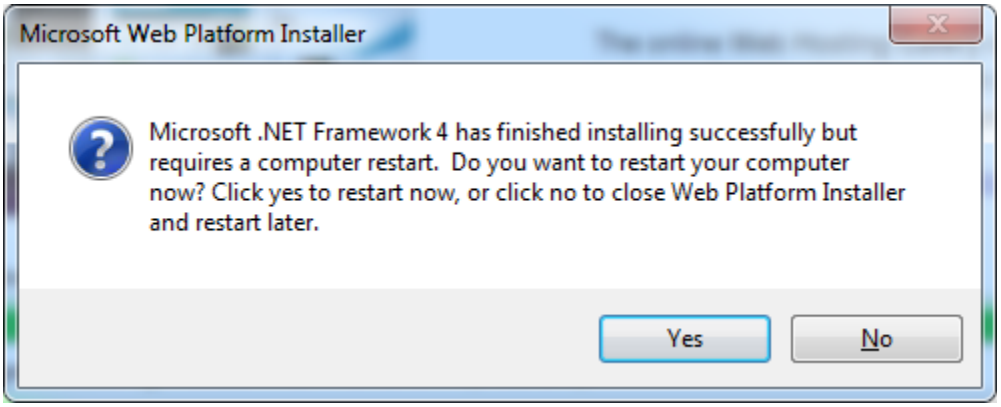
Click “Finish”

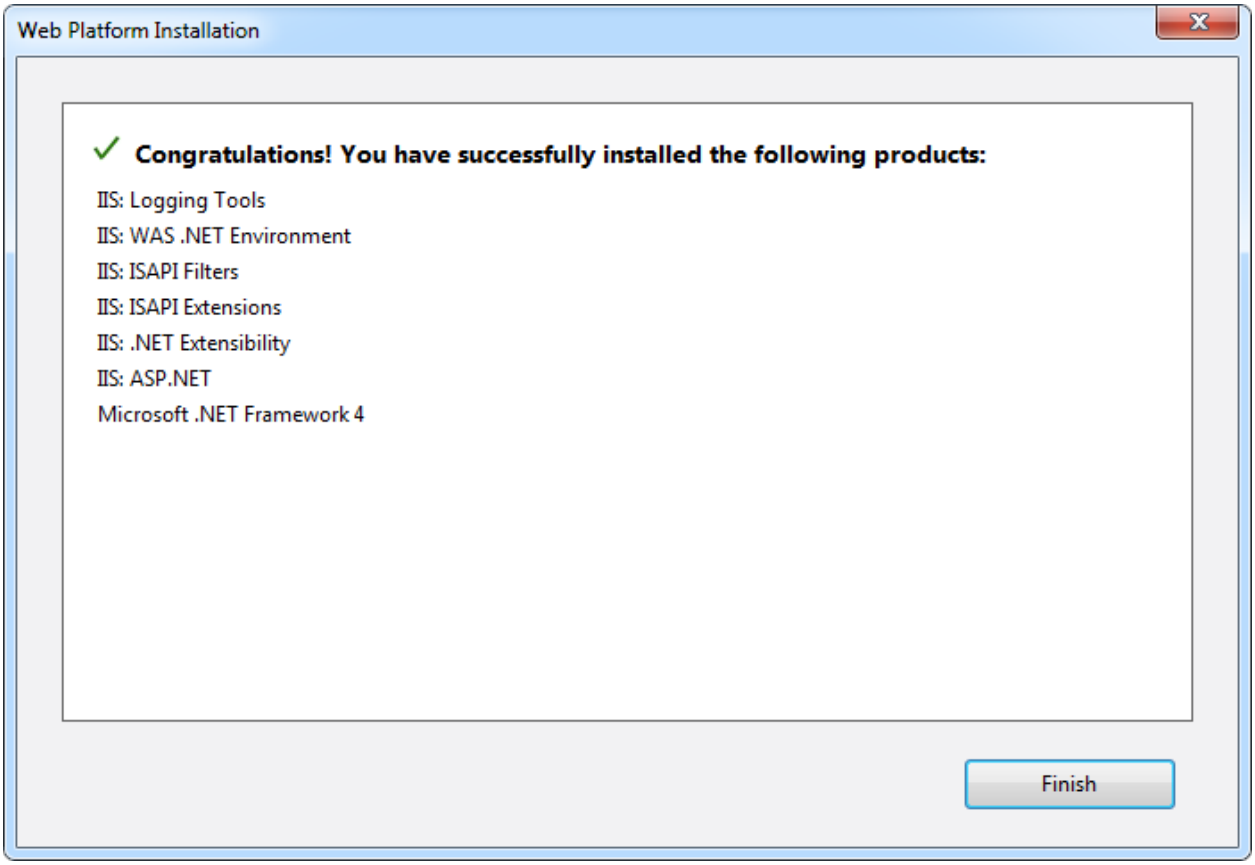
Click Exit


Microsoft Web Platform Installer 3.0 Setup
Microsoft
IIS Internet Information Services
Completed the Microsoft Web Platform Installer 3.0 Setup Wizard
Click the Finish button to exit the Setup Wizard.
Back
Finish
Cancel


Web Platform Installer 3.0
Spotlight
Products
Applications
All
Server
Frameworks
Database
Tools
Name
Released
Install
ASP.NET MVC 3 (Visual Studio 2010)
4/11/2011
Add
Visual Web Developer Express 2010 SP1
3/10/2011
Add
SQL Server Express 2008 R2
5/17/2010
Installed
Microsoft® SQL Server® Compact 4.0
10/14/2010
Add
IIS 7 Recommended Configuration
11/9/2010
Add
IIS 7.5 Express
4/11/2011
Add
Web Deployment Tool 2.1
4/11/2011
Add
Microsoft .NET Framework 4
4/12/2010
Add
Web Farm Framework 2.2
10/18/2011
Add
0
Items to be installed
Options
Install
Exit


Web Platform Installation
Review the following list of third party application software, Microsoft products and components to be installed and Windows components to be turned on. Third party applications and products are provided by the third parties listed here; Microsoft grants you no rights for third party software. You are responsible for and must separately locate, read and accept these third party license terms.
Microsoft .NET Framework 4
0.85 MB
View license terms
Downloaded from: http://go.microsoft.com/fwlink/?LinkId=164154
IIS: Logging Tools
IIS: ASP.NET
IIS: WAS .NET Environment (Dependency)
IIS: .NET Extensibility
IIS: ISAPI Filters
IIS: ISAPI Extensions
Total file download size:
0.85 MB
By clicking "I Accept," you agree to the license terms for the third party and Microsoft software listed above. If you do not agree to all of the license terms, click "I Decline."
I Decline
I Accept


Microsoft Web Platform Installer
Microsoft .NET Framework 4 has finished installing successfully but requires a computer restart. Do you want to restart your computer now? Click yes to restart now, or click no to close Web Platform Installer and restart later.
Yes
No



5.5 Configure IIS Application Pool and Machete Web Site

Start -> Control Panel -> Administrative Tools

double click “Internet Information Services (IIS) Manager”

Double-Click on the Web Server (The name will be different than in the image)

Double-Click on “Application Pools”

Double-Click on the “DefaultAppPool”

Change the ”.NET Framework version” to “v4.0.30319”

Click “OK”

Right-click on “DefaultAppPool”, click “Advanced settings...”

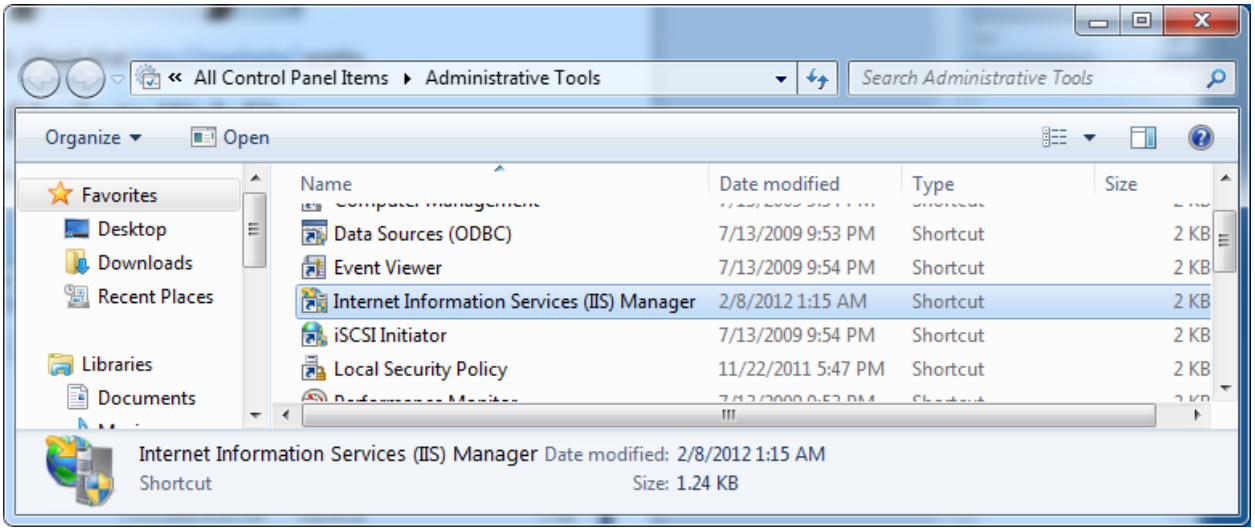
Click the ”...” in the Identity field

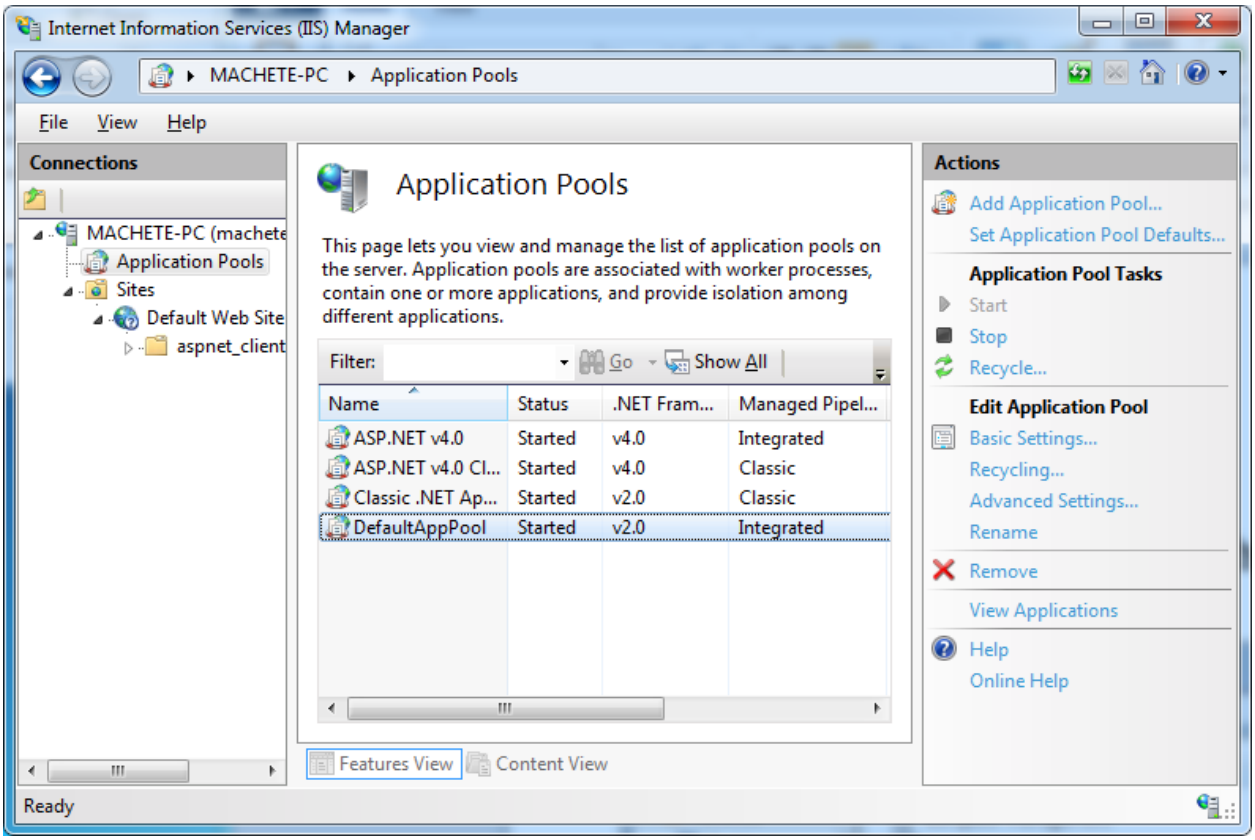
Change the “Built-in account” to “NetworkService”, then click “OK”

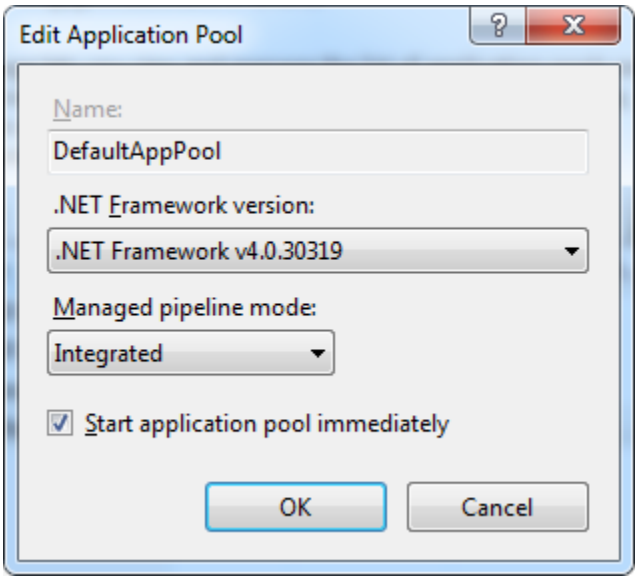
Click “OK” to the “Advanced Settings” to close the window.

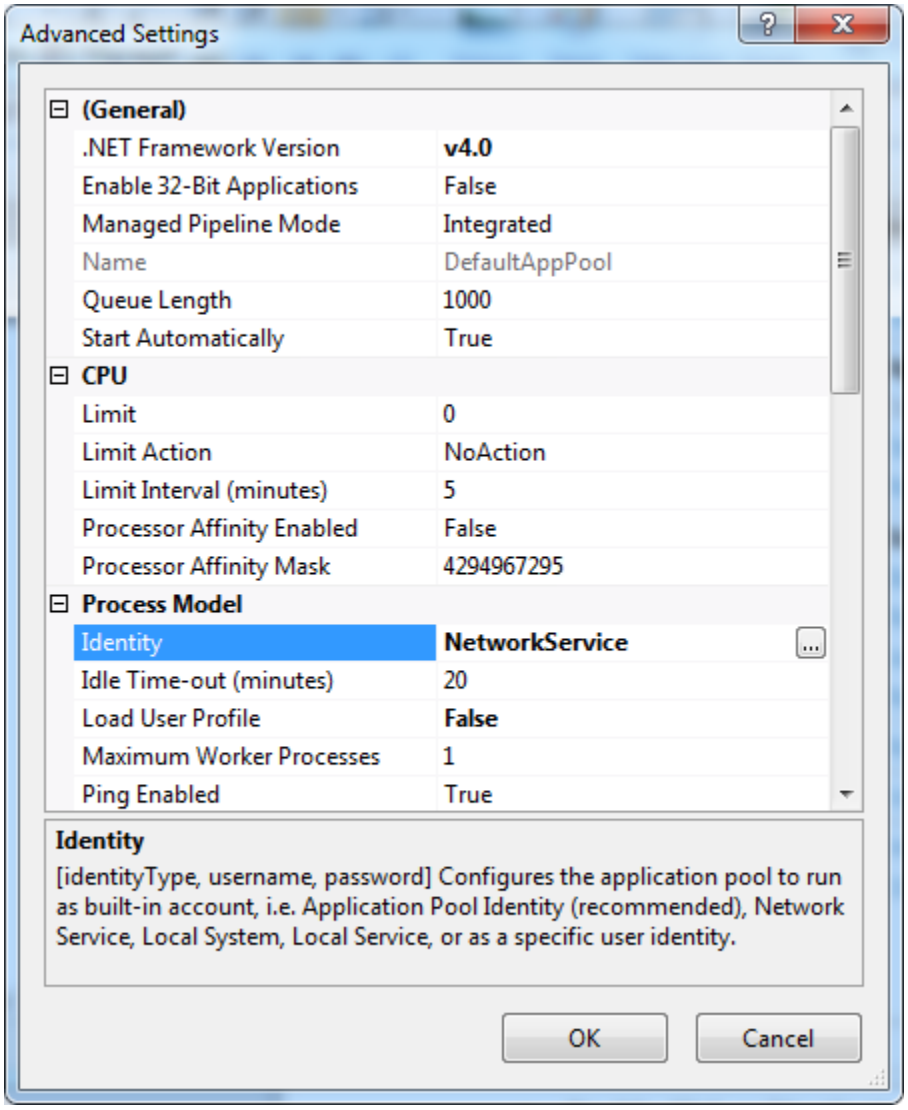
Click “Stop” and wait for the Application Pool to stop.

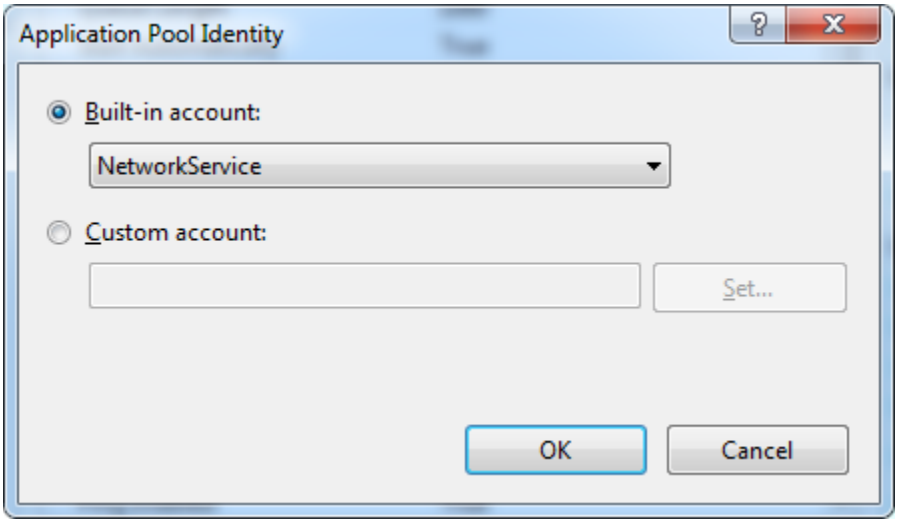
Click “Start” and wait for the Application Pool to start.

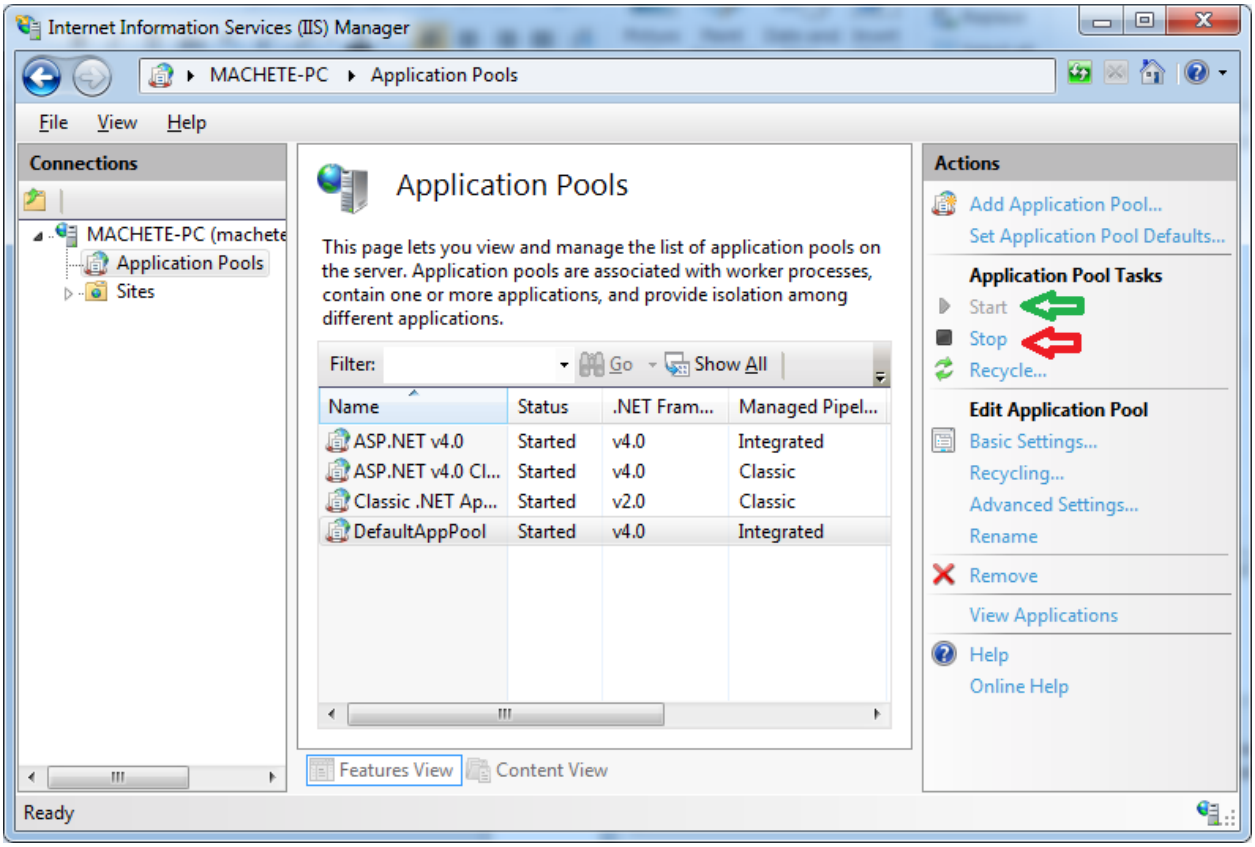

« All Control Panel Items ▸ Administrative Tools
Search Administrative Tools
Organize
Open
Favorites
Desktop
Downloads
Recent Places
Libraries
Documents
Name
Date modified
Type
Size
Data Sources (ODBC) 7/13/2009 9:53 PM Shortcut 2 KB
Event Viewer 7/13/2009 9:54 PM Shortcut 2 KB
Internet Information Services (IIS) Manager 2/8/2012 1:15 AM Shortcut 2 KB
iSCSI Initiator 7/13/2009 9:54 PM Shortcut 2 KB
Local Security Policy 11/22/2011 5:47 PM Shortcut 2 KB
Internet Information Services (IIS) Manager Date modified: 2/8/2012 1:15 AM
Shortcut
Size: 1.24 KB


Internet Information Services (IIS) Manager
MACHETE-PC ▸ Application Pools
File View Help
Connections
MACHETE-PC (machete
Application Pools
Sites
Default Web Site
aspnet_client
Application Pools
This page lets you view and manage the list of application pools on the server. Application pools are associated with worker processes, contain one or more applications, and provide isolation among different applications.
Filter:
Go
Show All
Name
Status
.NET Fram...
Managed Pipel...
ASP.NET v4.0 Started v4.0 Integrated
ASP.NET v4.0 Cl... Started v4.0 Classic
Classic .NET Ap... Started v2.0 Classic
DefaultAppPool Started v2.0 Integrated
Features View
Content View
Actions
Add Application Pool...
Set Application Pool Defaults...
Application Pool Tasks
Start
Stop
Recycle...
Edit Application Pool
Basic Settings...
Recycling...
Advanced Settings...
Rename
Remove
View Applications
Help
Online Help
Ready


Edit Application Pool
Name:
DefaultAppPool
.NET Framework version:
.NET Framework v4.0.30319
Managed pipeline mode:
Integrated
Start application pool immediately
OK
Cancel


Advanced Settings
(General)
.NET Framework Version
v4.0
Enable 32-Bit Applications
False
Managed Pipeline Mode
Integrated
Name
DefaultAppPool
Queue Length
1000
Start Automatically
True
CPU
Limit
0
Limit Action
NoAction
Limit Interval (minutes)
5
Processor Affinity Enabled
False
Processor Affinity Mask
4294967295
Process Model
Identity
NetworkService
Idle Time-out (minutes)
20
Load User Profile
False
Maximum Worker Processes
1
Ping Enabled
True
Identity
[identityType, username, password] Configures the application pool to run as built-in account, i.e. Application Pool Identity (recommended), Network Service, Local System, Local Service, or as a specific user identity.
OK
Cancel

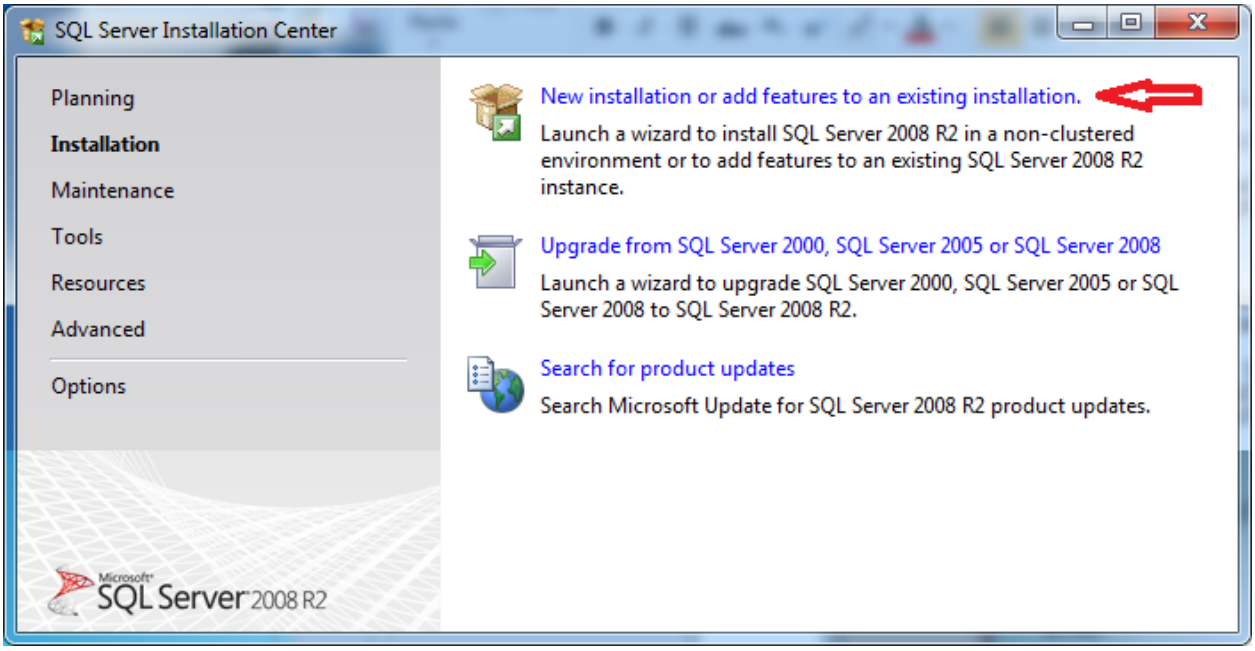

Application Pool Identity
Built-in account:
NetworkService
Custom account:
Set...
OK
Cancel


Internet Information Services (IIS) Manager
MACHETE-PC ▸ Application Pools
File View Help
Connections
MACHETE-PC (machete
Application Pools
Sites
Application Pools
This page lets you view and manage the list of application pools on the server. Application pools are associated with worker processes, contain one or more applications, and provide isolation among different applications.
Filter:
Go
Show All
Name
Status
.NET Fram...
Managed Pipel...
ASP.NET v4.0
Started
v4.0
Integrated
ASP.NET v4.0 Cl...
Started
v4.0
Classic
Classic .NET Ap...
Started
v2.0
Classic
DefaultAppPool
Started
v4.0
Integrated
Features View
Content View
Actions
Add Application Pool...
Set Application Pool Defaults...
Application Pool Tasks
Start
Stop
Recycle...
Edit Application Pool
Basic Settings...
Recycling...
Advanced Settings...
Rename
Remove
View Applications
Help
Online Help
Ready

5.6 Install SQL Server Express

Down SQL Server Express with Management Tools (choose x86 or x64, based on the OS)http://www.microsoft.com/download/en/details.aspx?displaylang=en&id=23650

Run the downloaded program



Click on “New installation ... “

Click “I accept the terms”

Click “Next” -> (several screens will pop up and go away...wait)

Uncheck “SQL Server Replication” and uncheck “SQL Client Connectivity SDK”

Click “Next”

Click “Next” (DO NOT CHANGE the names. Machete is configured to use these names.)

Click “Next” thru the Server Configuration page

Click “Next” thru the Database Engine Configuration page

Click “Next” thru the Error Reporting page. The installation will start.

Click Close

Click the “Red X” in the upper right-hand of the box.

Configure “Network Service” account to access SQL Server

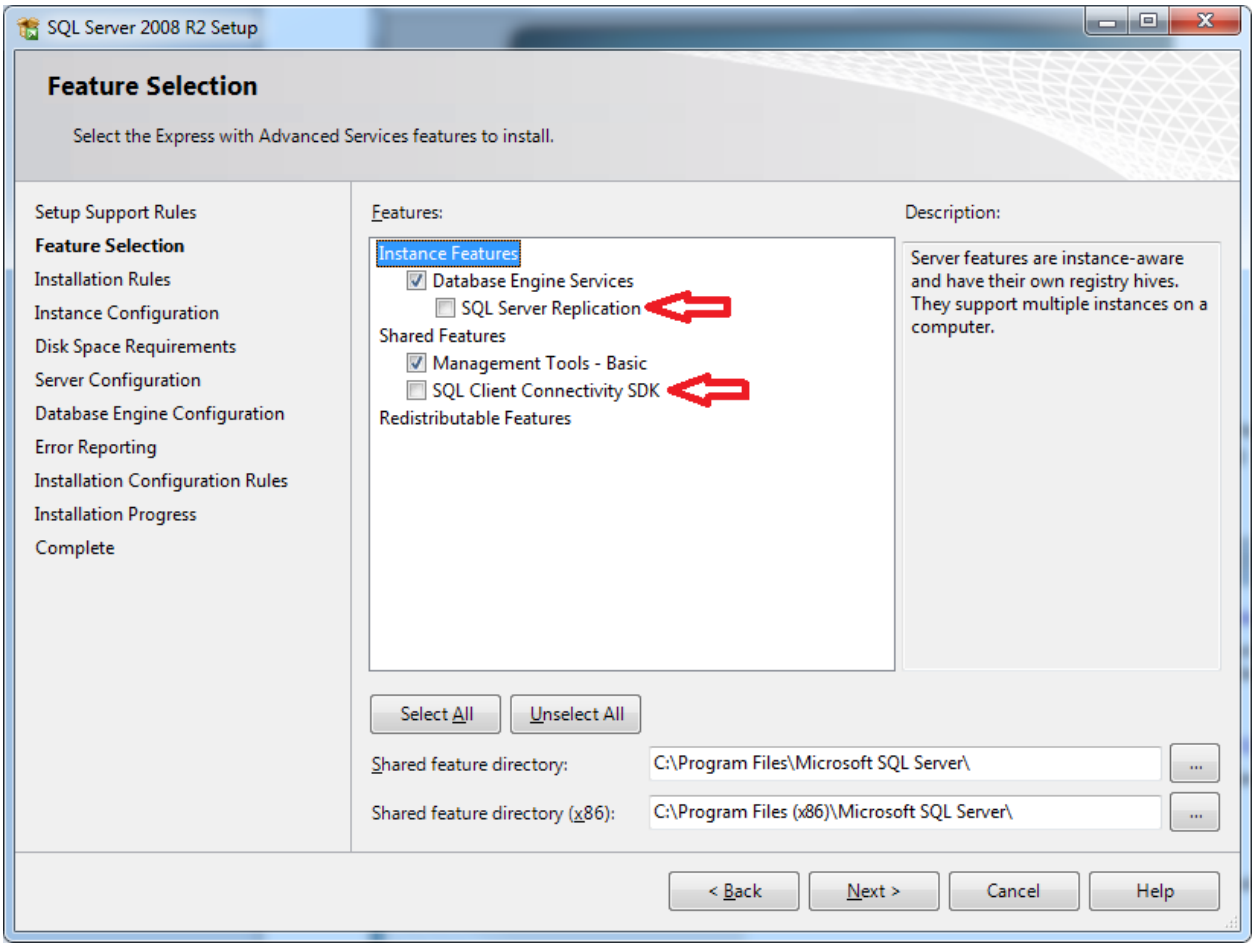
Start -> All Programs -> Microsoft SQL Server 2008 R2 -> SQL Server Management Studio (SSMS)

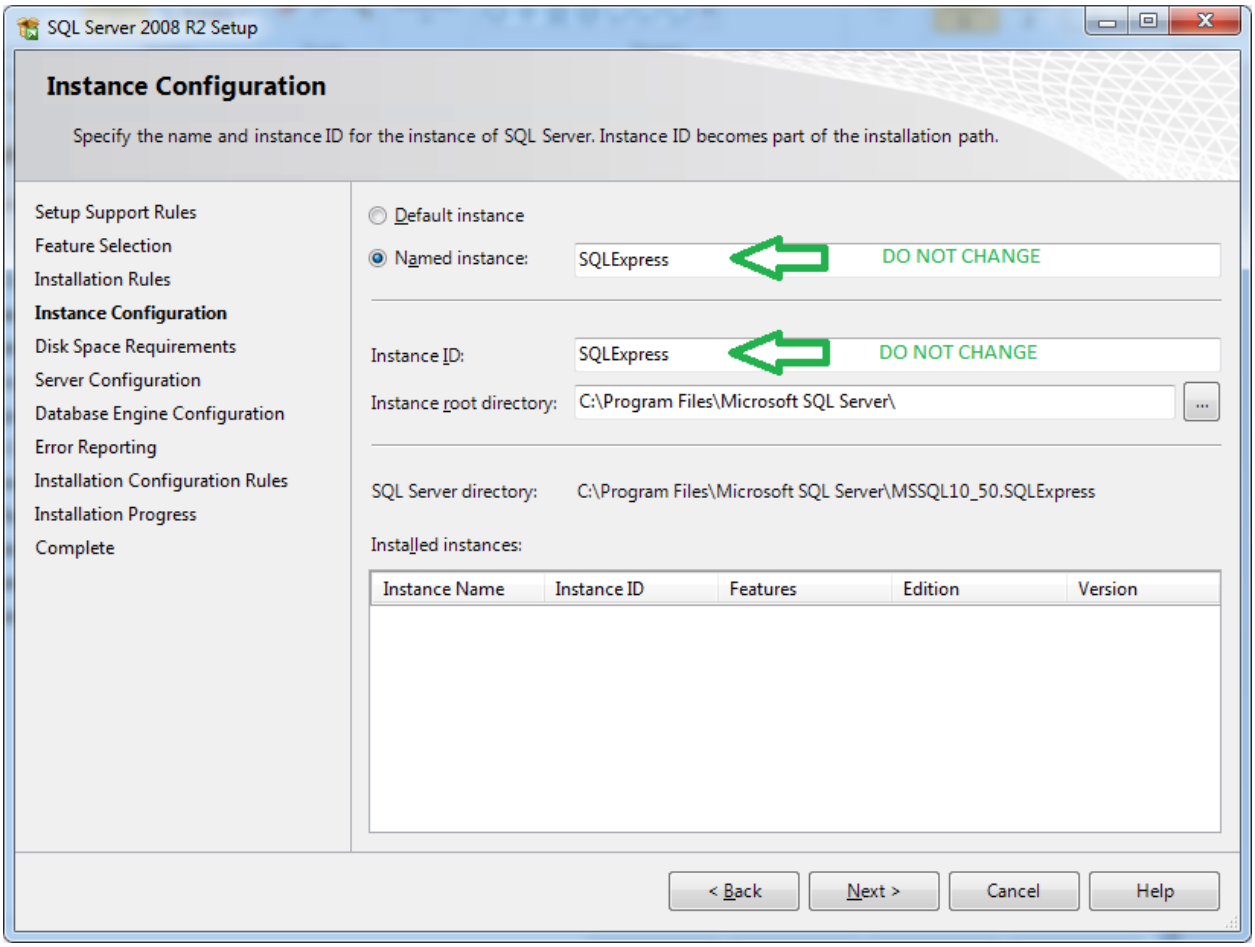
Set server name to “localhost\SQLEXPRESS”

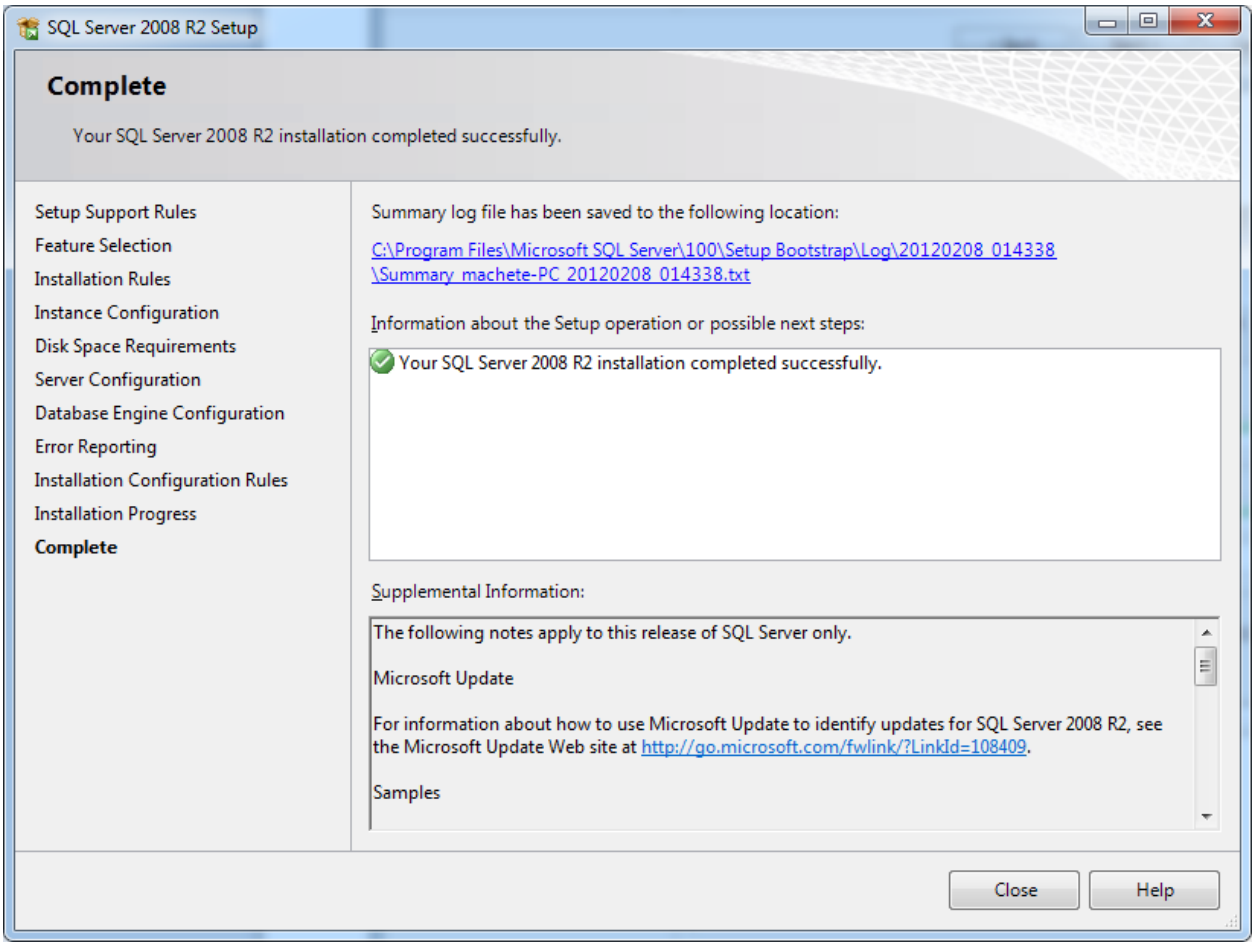
Click “Connect”

Right-click on Logins, then click “New Login...”

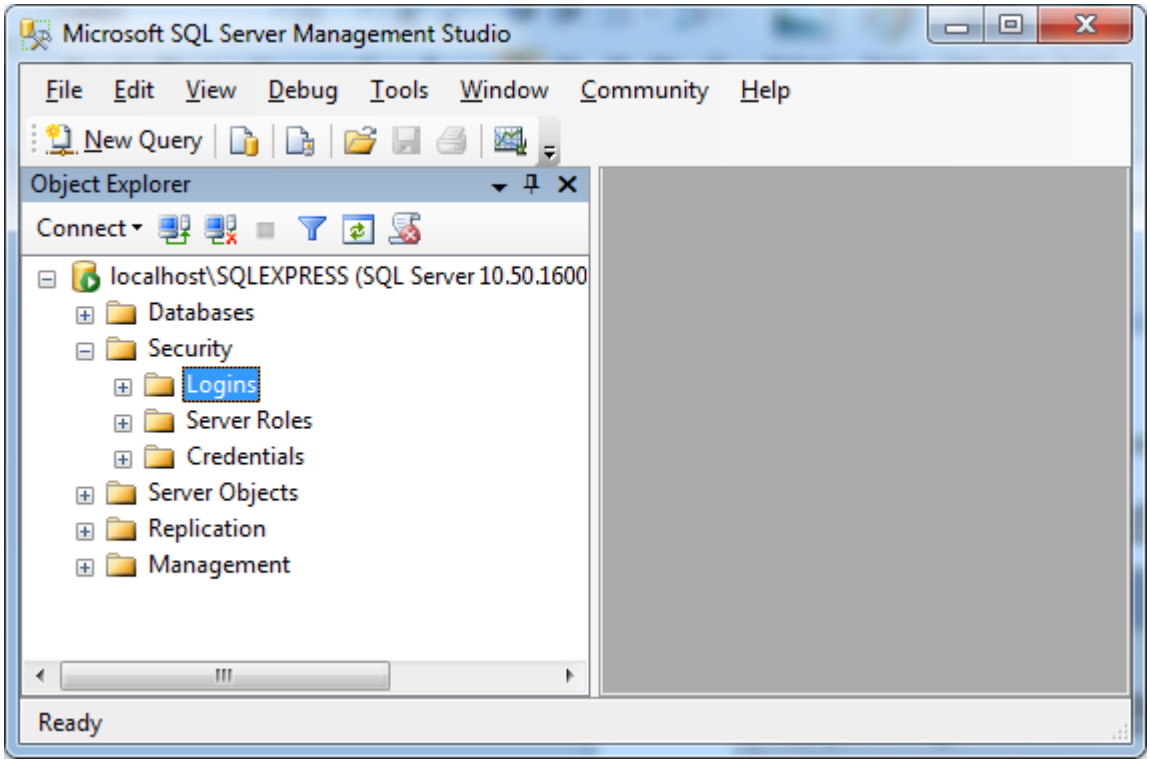
Click “Search...”


SQL Server 2008 R2 Setup
Feature Selection
Select the Express with Advanced Services features to install.
Setup Support Rules
Feature Selection
Installation Rules
Instance Configuration
Disk Space Requirements
Server Configuration
Database Engine Configuration
Error Reporting
Installation Configuration Rules
Installation Progress
Complete
Features:
Instance Features
Database Engine Services
SQL Server Replication
Shared Features
Management Tools - Basic
SQL Client Connectivity SDK
Redistributable Features
Description:
Server features are instance-aware and have their own registry hives. They support multiple instances on a computer.
Select All
Unselect All
Shared feature directory:
C:\Program Files\Microsoft SQL Server\
Shared feature directory (x86):
C:\Program Files (x86)\Microsoft SQL Server\
< Back
Next >
Cancel
Help


SQL Server 2008 R2 Setup
Instance Configuration
Specify the name and instance ID for the instance of SQL Server. Instance ID becomes part of the installation path.
Setup Support Rules
Feature Selection
Installation Rules
Instance Configuration
Disk Space Requirements
Server Configuration
Database Engine Configuration
Error Reporting
Installation Configuration Rules
Installation Progress
Complete
Default instance
Named instance:
SQLExpress
DO NOT CHANGE
Instance ID:
SQLExpress
DO NOT CHANGE
Instance root directory:
C:\Program Files\Microsoft SQL Server\
SQL Server directory:
C:\Program Files\Microsoft SQL Server\MSSQL10_50.SQLExpress
Installed instances:
Instance Name
Instance ID
Features
Edition
Version
< Back
Next >
Cancel
Help


SQL Server 2008 R2 Setup
Complete
Your SQL Server 2008 R2 installation completed successfully.
Setup Support Rules
Feature Selection
Installation Rules
Instance Configuration
Disk Space Requirements
Server Configuration
Database Engine Configuration
Error Reporting
Installation Configuration Rules
Installation Progress
Complete
Summary log file has been saved to the following location:
C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Log\20120208_014338\Summary_machete-PC_20120208_014338.txt
Information about the Setup operation or possible next steps:
Your SQL Server 2008 R2 installation completed successfully.
Supplemental Information:
The following notes apply to this release of SQL Server only.
Microsoft Update
For information about how to use Microsoft Update to identify updates for SQL Server 2008 R2, see the Microsoft Update Web site at http://go.microsoft.com/fwlink/?LinkId=108409.
Samples
Close
Help


Connect to Server
Microsoft SQL Server 2008 R2
Server type:
Database Engine
Server name:
localhost\SQLEXPRESS
Authentication:
Windows Authentication
User name:
machete-PC\machete
Password:
Remember password
Connect
Cancel
Help
Options >>



Type “network service” into the test box, then click “Check Names”. You should see the name change and the name become underlined.

Click “OK”

Click “Server Roles”

Click the checkbox next to “sysadmin”

Click “OK”

5.7 Add Machete User and Log database to Machete

Machete requires three databases to function. Each database contains data for a core function. They are:

- User accounts (aspnetpub.mdf)
- Log information (ELMAHlog.mdf)
- Application information (machete.mdf)

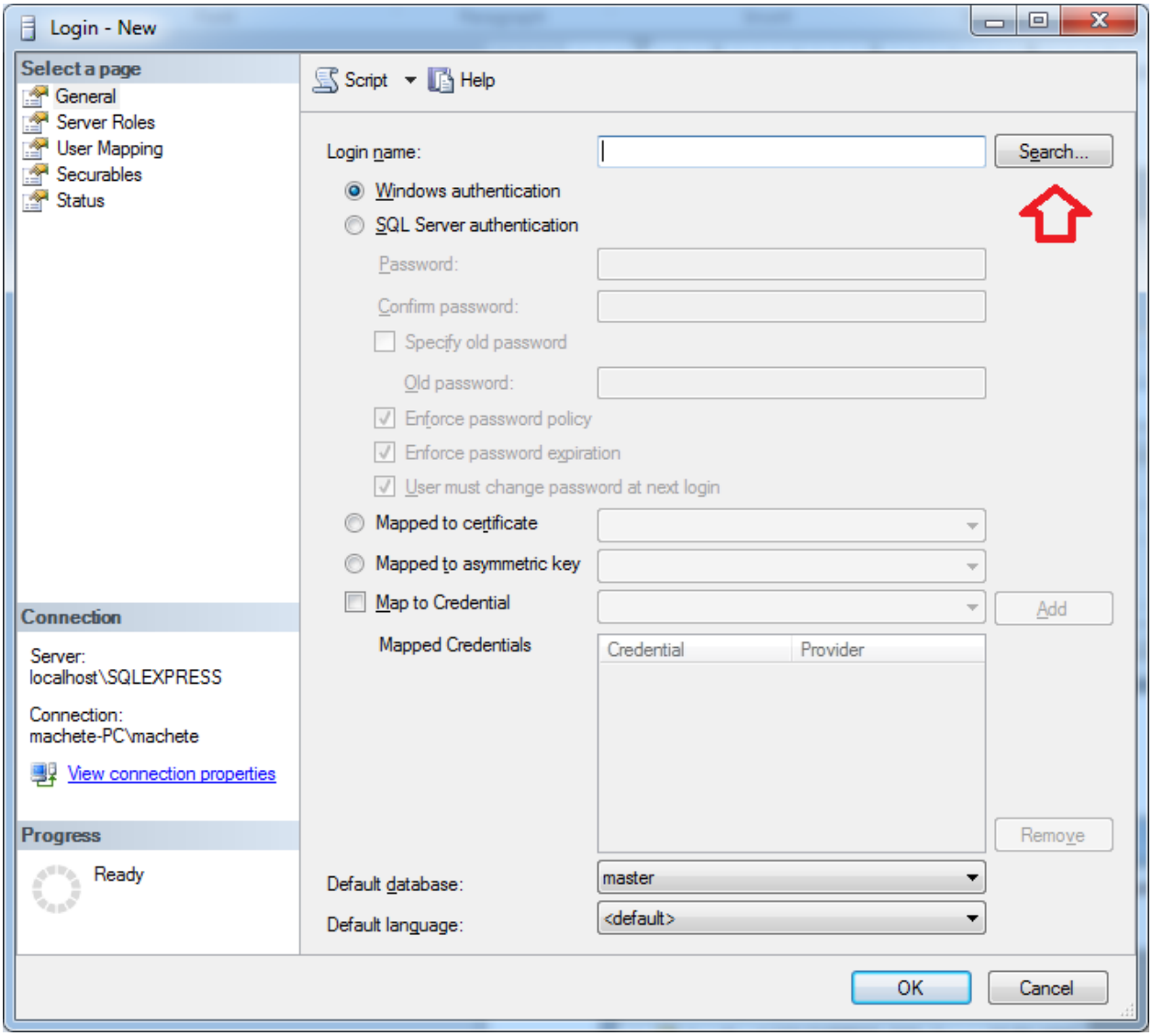
Machete.mdf is created by the application when it first runs. The other two databases must be copied into the correct SQL Server directly and attached to the database server.

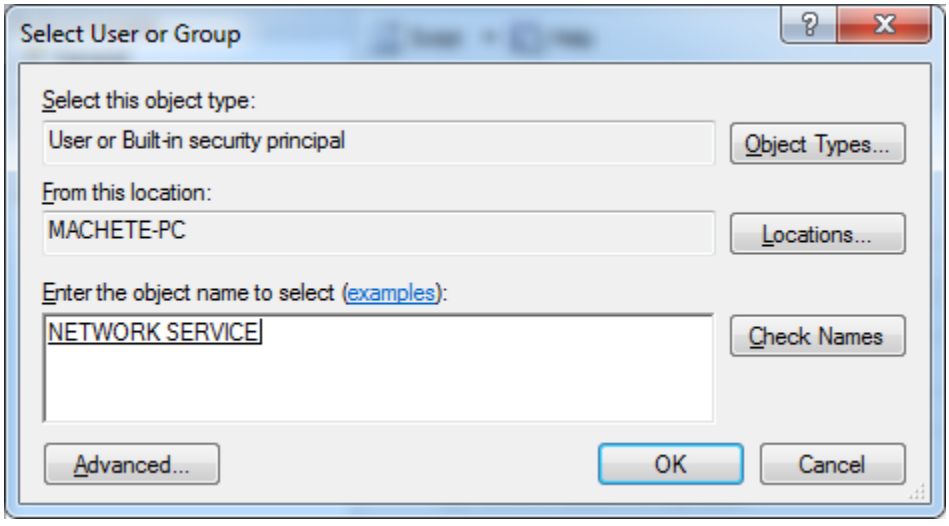
Use Windows Explorer to “Extract All” from the “machete_User_log_databases.zip” file.

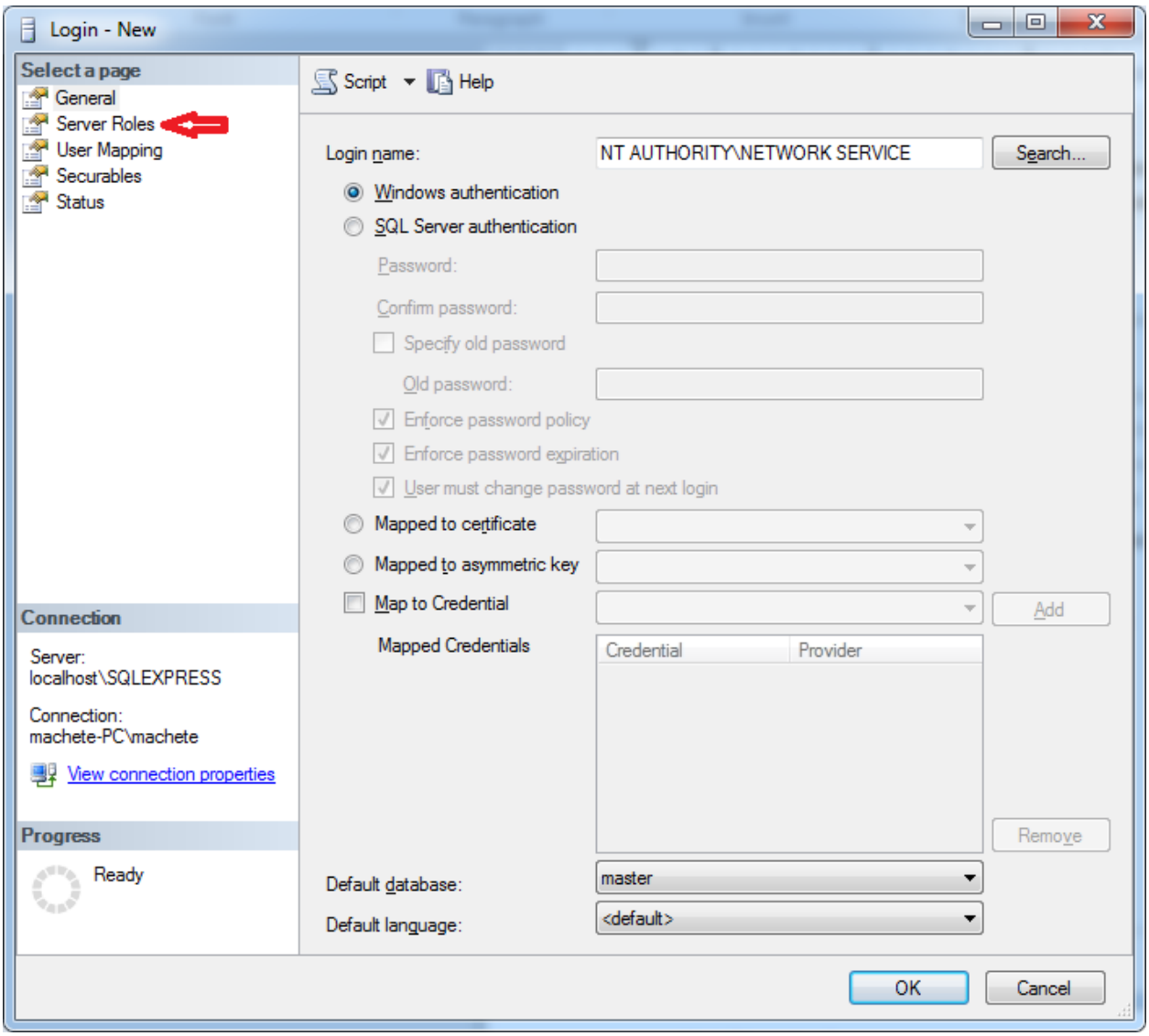
Click “continue” on the security confirmation

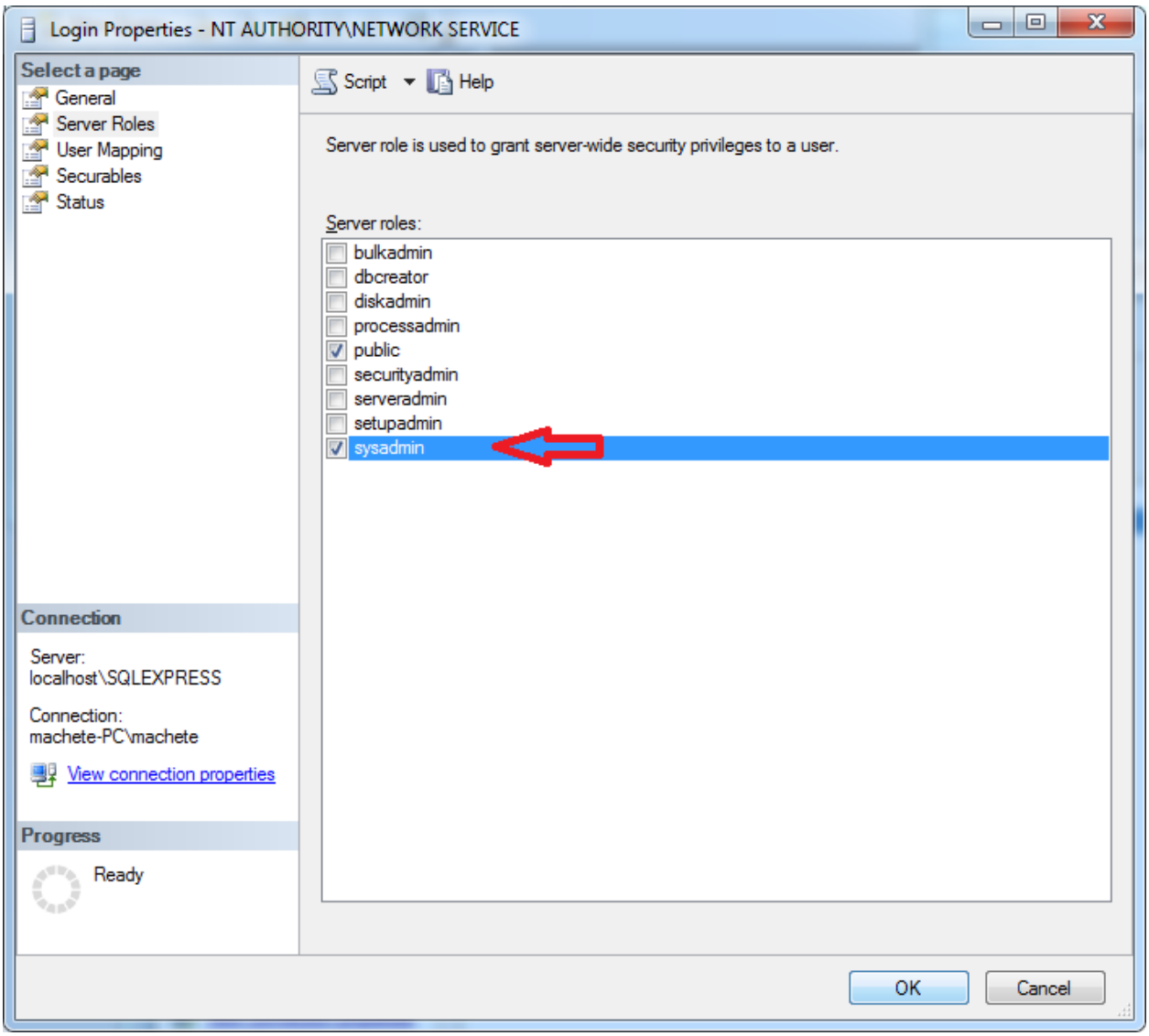
Use windows explorer to verify the files are in the correct location. You will need to “confirm” permission to view the directory:

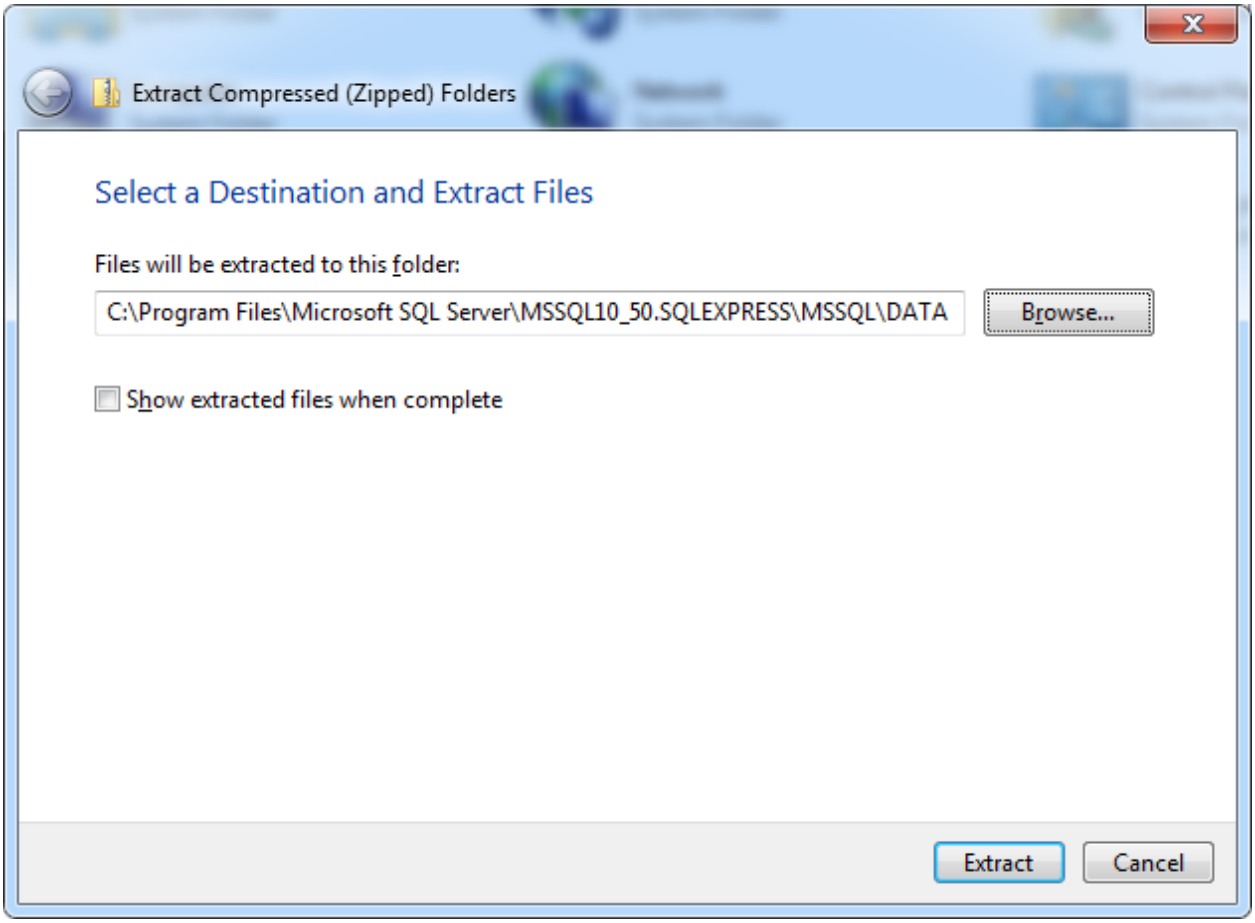
Use SQL Server Management Studio (SSMS) to attach the two databases.

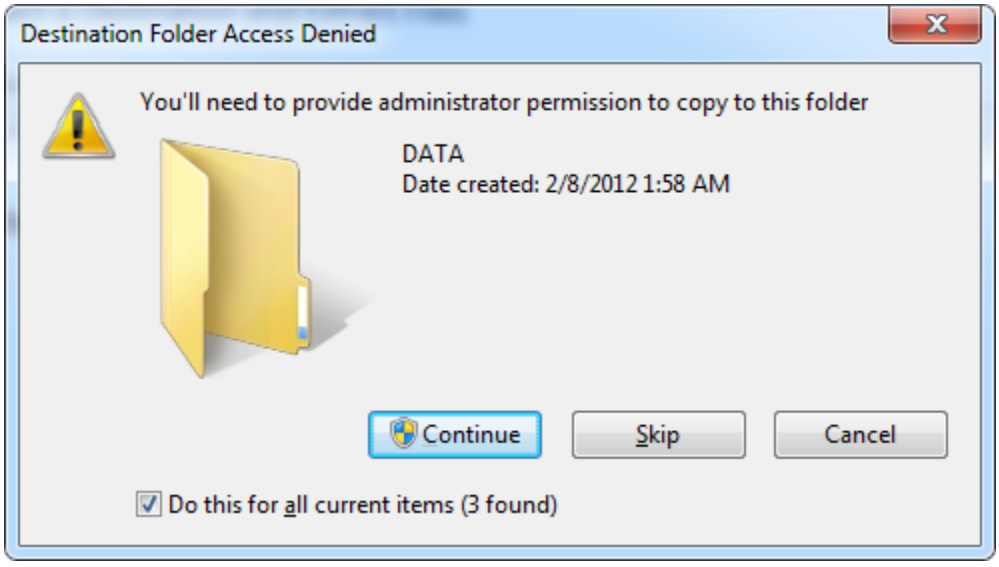

Login - New
Select a page
General
Server Roles
User Mapping
Securables
Status
Script
Help
Login name:
Search...
Windows authentication
SQL Server authentication
Password:
Confirm password:
Specify old password
Old password:
Enforce password policy
Enforce password expiration
User must change password at next login
Mapped to certificate
Mapped to asymmetric key
Map to Credential
Add
Mapped Credentials
Credential
Provider
Remove
Default database:
master
Default language:
<default>
Connection
Server:
localhost\SQLEXPRESS
Connection:
machete-PC\machete
View connection properties
Progress
Ready
OK
Cancel

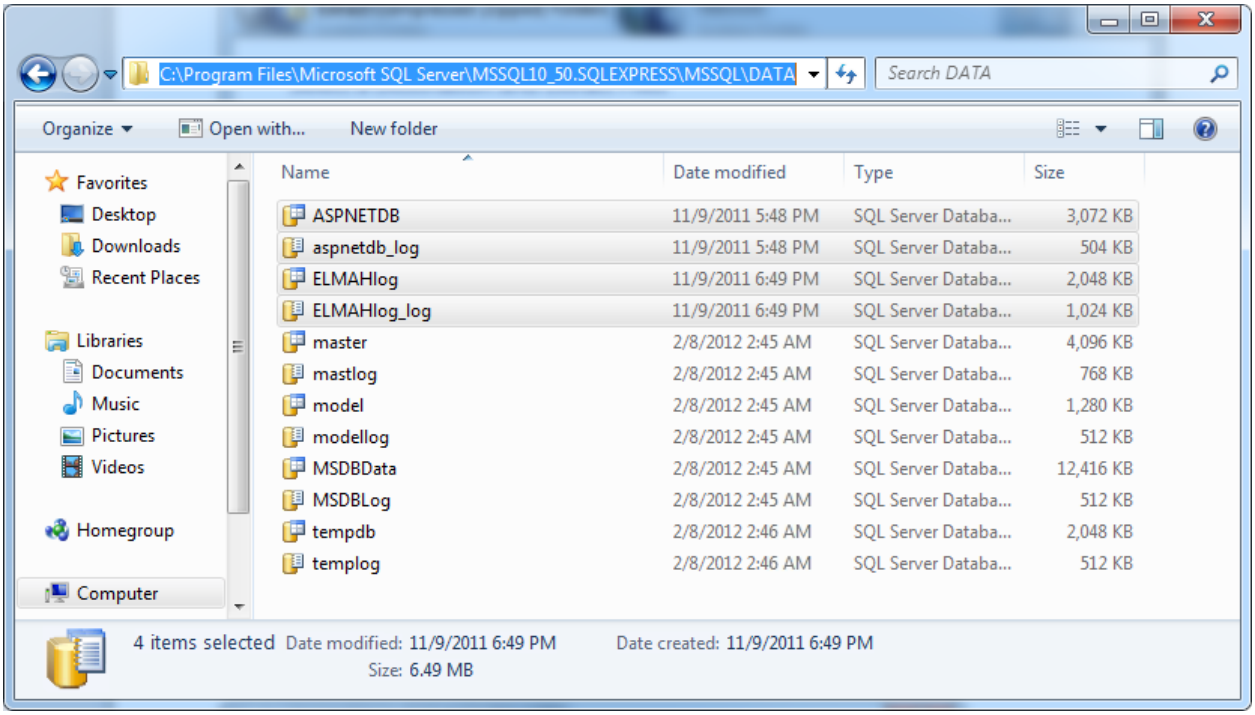

Select User or Group
Select this object type:
User or Built-in security principal
Object Types...
From this location:
MACHETE-PC
Locations...
Enter the object name to select (examples):
NETWORK SERVICE
Check Names
Advanced...
OK
Cancel


Login - New
Select a page
General
Server Roles
User Mapping
Securables
Status
Script
Help
Login name:
NT AUTHORITY\NETWORK SERVICE
Search...
Windows authentication
SQL Server authentication
Password:
Confirm password:
Specify old password
Old password:
Enforce password policy
Enforce password expiration
User must change password at next login
Mapped to certificate
Mapped to asymmetric key
Map to Credential
Add
Mapped Credentials
Credential
Provider
Remove
Default database:
master
Default language:
<default>
Connection
Server:
localhost\SQLEXPRESS
Connection:
machete-PC\machete
View connection properties
Progress
Ready
OK
Cancel


Login Properties - NT AUTHORITY\NETWORK SERVICE
Select a page
General
Server Roles
User Mapping
Securables
Status
Script
Help
Server role is used to grant server-wide security privileges to a user.
Server roles:
bulkadmin
dbcreator
diskadmin
processadmin
public
securityadmin
serveradmin
setupadmin
sysadmin
Connection
Server:
localhost\SQLEXPRESS
Connection:
machete-PC\machete
View connection properties
Progress
Ready
OK
Cancel


Extract Compressed (Zipped) Folders
Select a Destination and Extract Files
Files will be extracted to this folder:
C:\Program Files\Microsoft SQL Server\MSSQL10_50.SQLEXPRESS\MSSQL\DATA
Browse...
Show extracted files when complete
Extract
Cancel


Destination Folder Access Denied
You'll need to provide administrator permission to copy to this folder
DATA
Date created: 2/8/2012 1:58 AM
Continue
Skip
Cancel
Do this for all current items (3 found)



(See steps at the beginning of this section for instructions on logging into SSMS)

Right-click on “Databases”, click on “Attach...”

Click “Add...”

Select “ASPNETDB.MDF” and click “OK”

Make no changes. Click “OK”

Verify that the aspnetdb is visible in the “Databases” branch of the Object Explorer

Repeat the same steps for the ELMAHlog.mdf file.

Right-click on “Databases”, click on “Attach...”

Click “Add...”

Select “ELMAHlog.MDF” and click “OK”

Make no changes. Click “OK”

Verify that the machetelog is visible in the “Databases” branch of the Object Explorer

5.8 Install the Machete Web Application binaries

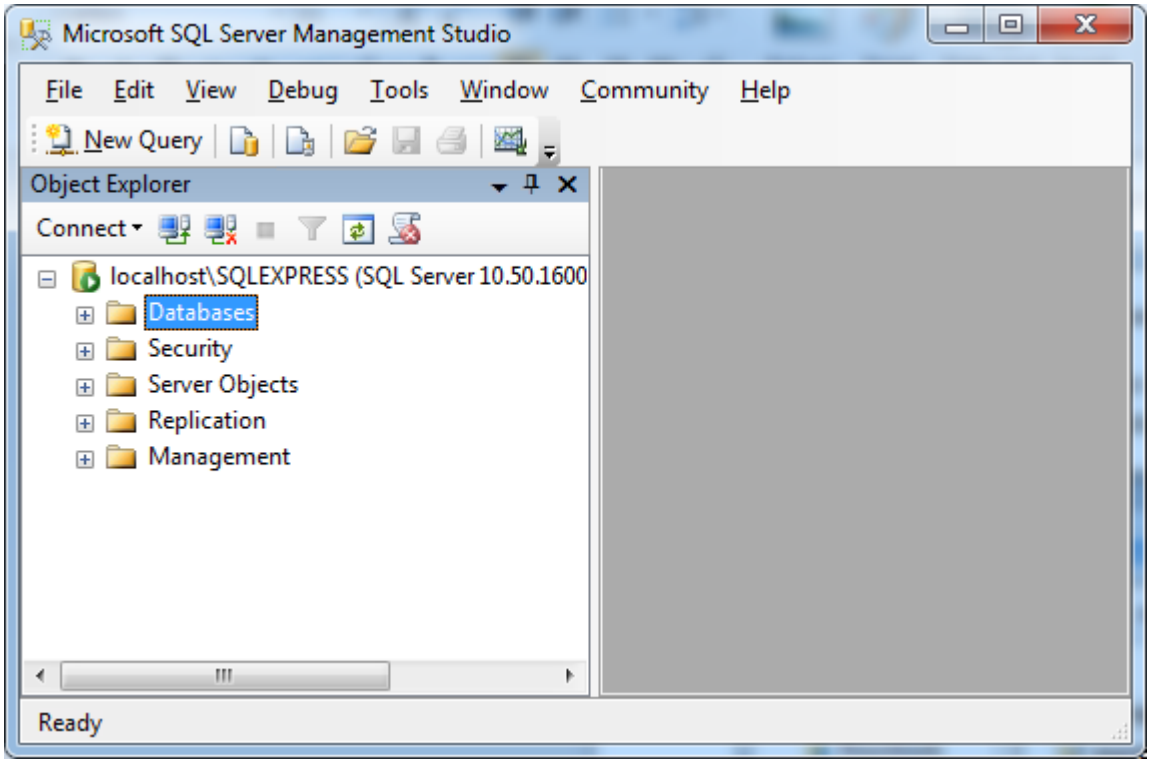
Get a current copy of the Machete web binaries

Extract the Machete binaries from the supplied ZIP file (machete-2012.xx.xx.zip)

Confirm security permission

Use Internet Explorer (or Firefox, or Chrome) to verify that Machete works

http://machete/



Verify that users can login successfully

click “Logon” in the upper right corner

use jadmin for the account and machete for the password

If you successfully logon, then everything is configured correctly

5.9 Install Google Chrome and Internet Explorer 9

Windows 7 comes with Internet Explorer 8 (IE8). You must upgrade to IE9, because Machete requires javascript and the IE8 defaults block javascript by default.

5.9.1 Internet Explorer 9

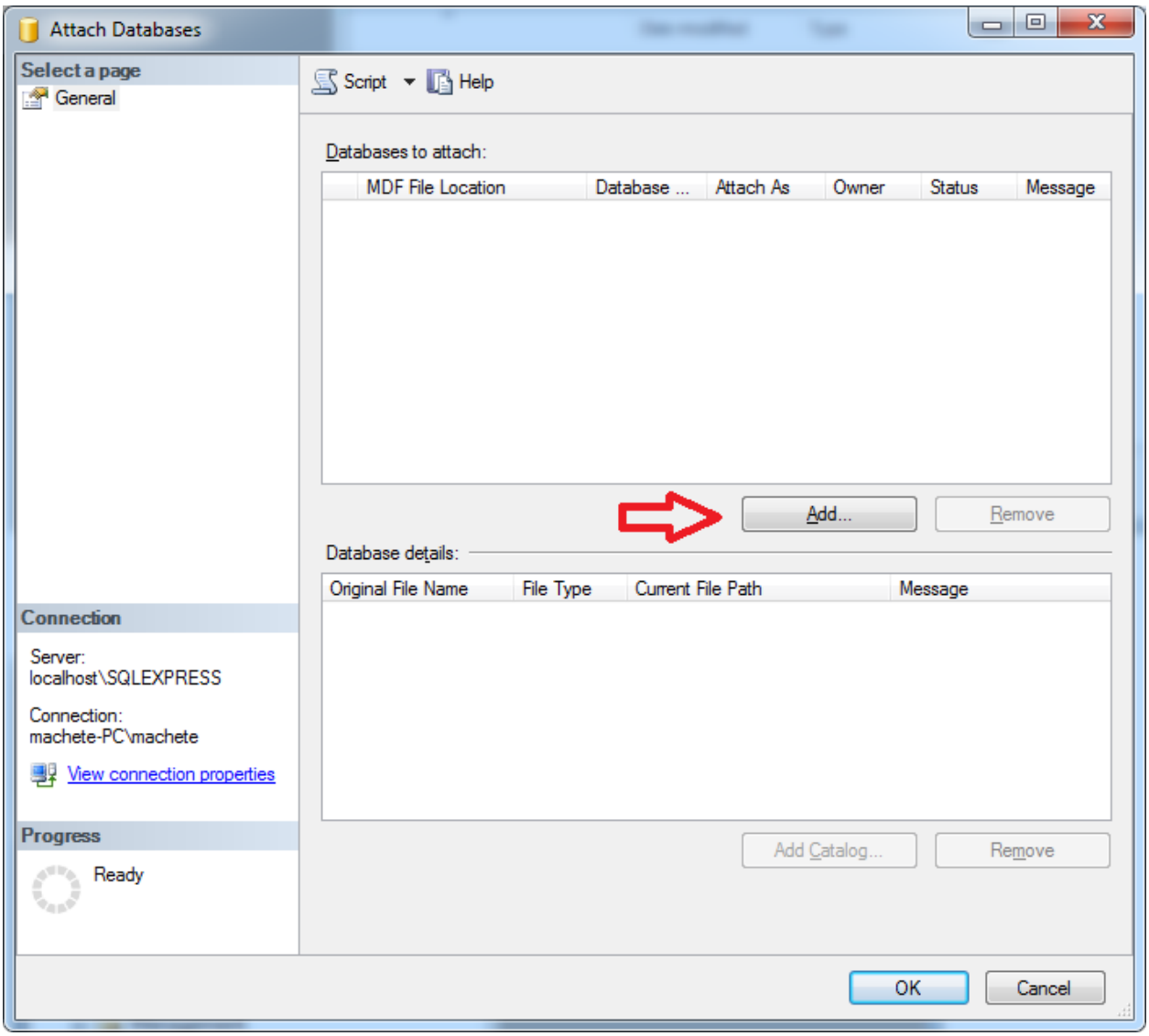
http://windows.microsoft.com/en-US/internet-explorer/products/ie/home?WT.mc_id=MSCOM_EN_US_DLC_FAMILIES_121LMUS(

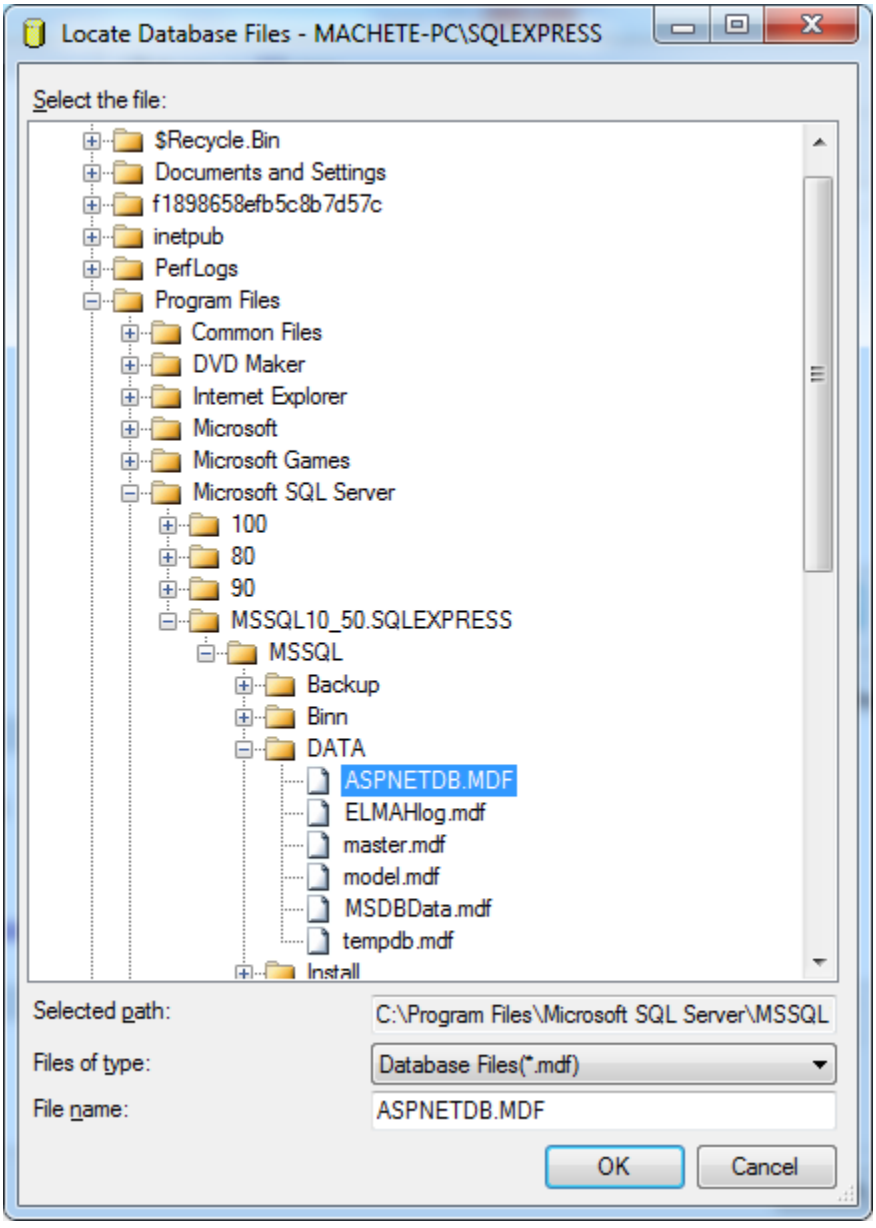
(Be sure to uncheck the box that says “I would also like Bing and MSN defaults”)

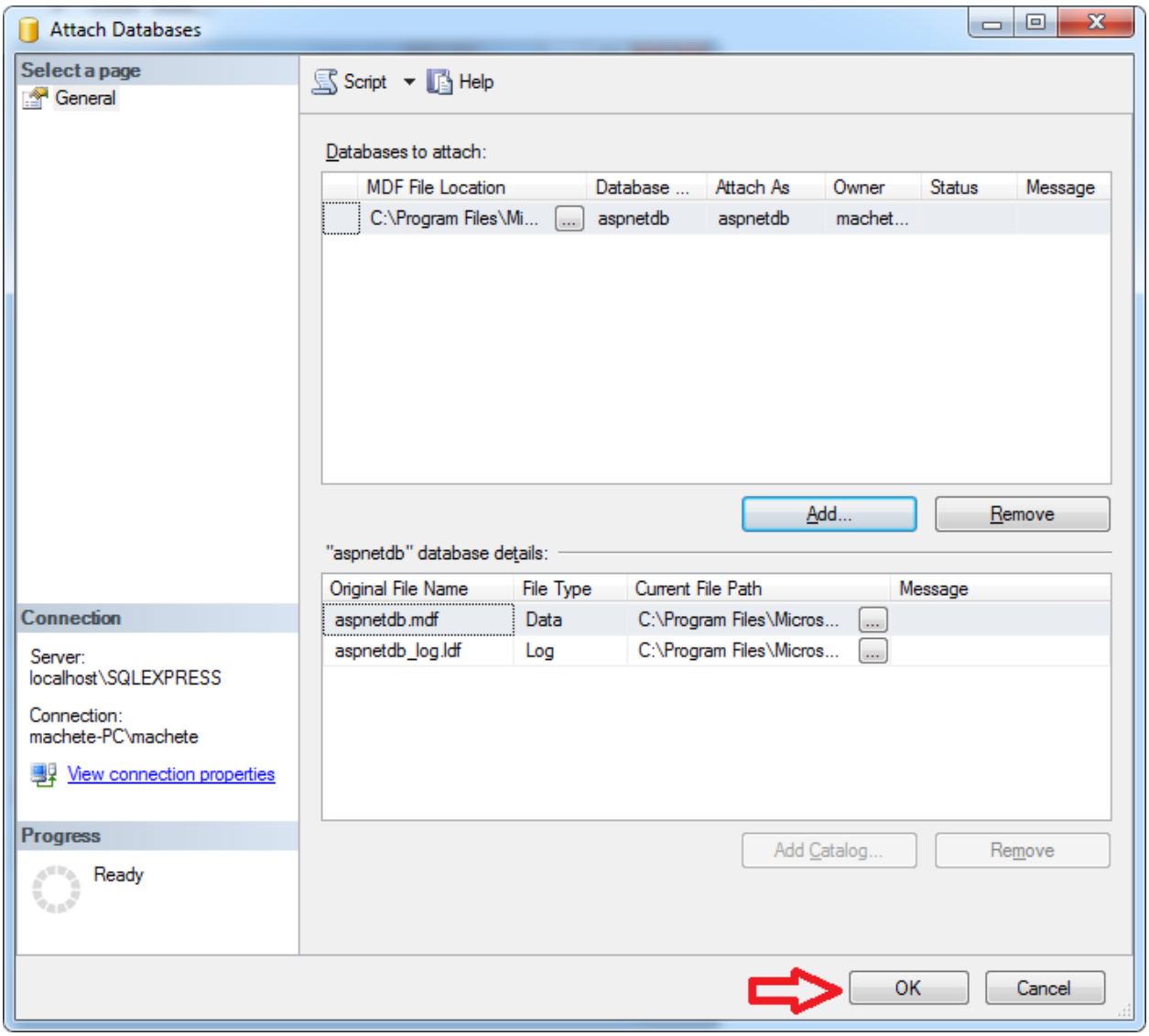
5.9.2 Google Chrome

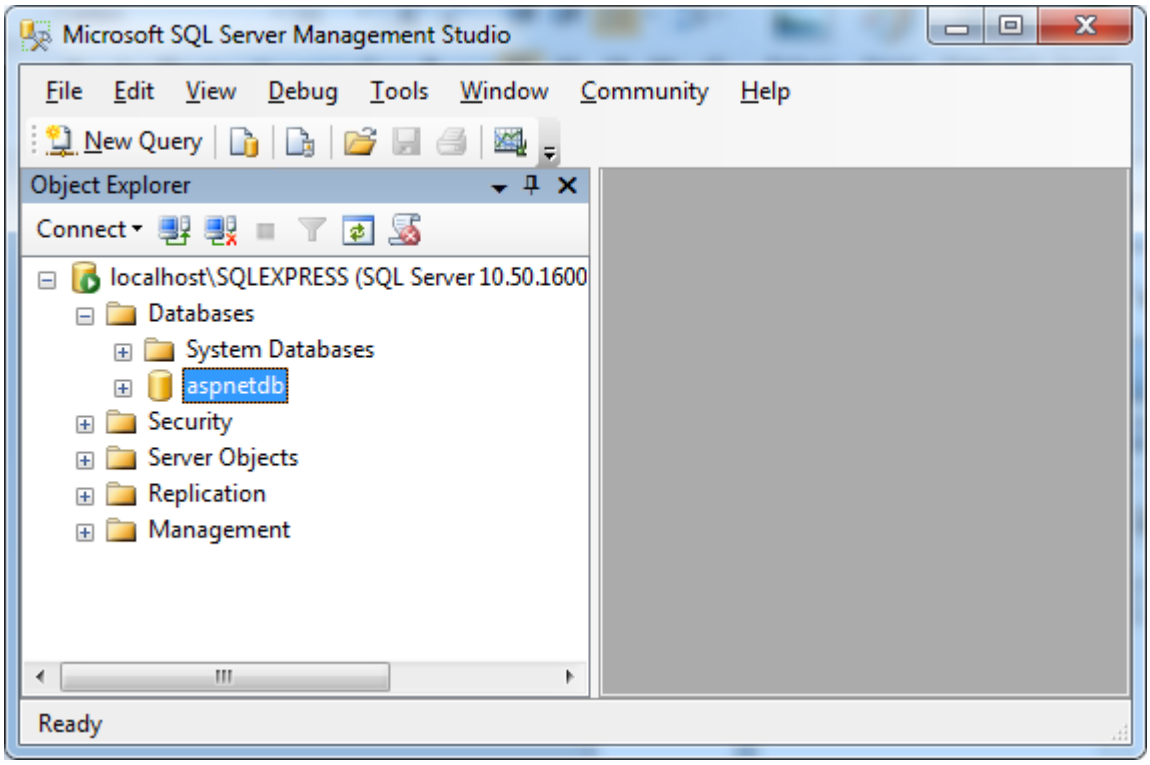
https://www.google.com/chrome

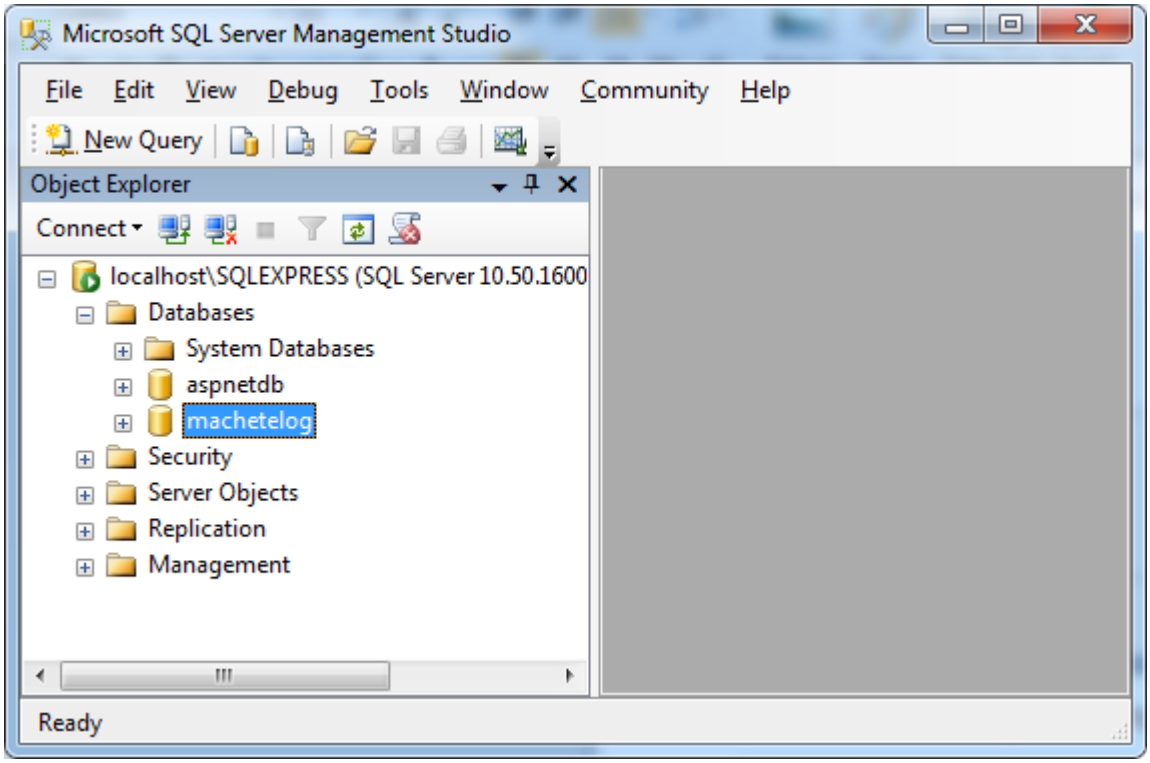
Make Google Chrome the default browser. Use Google chrome for the demonstration. It is faster and works perfectly from the installation.

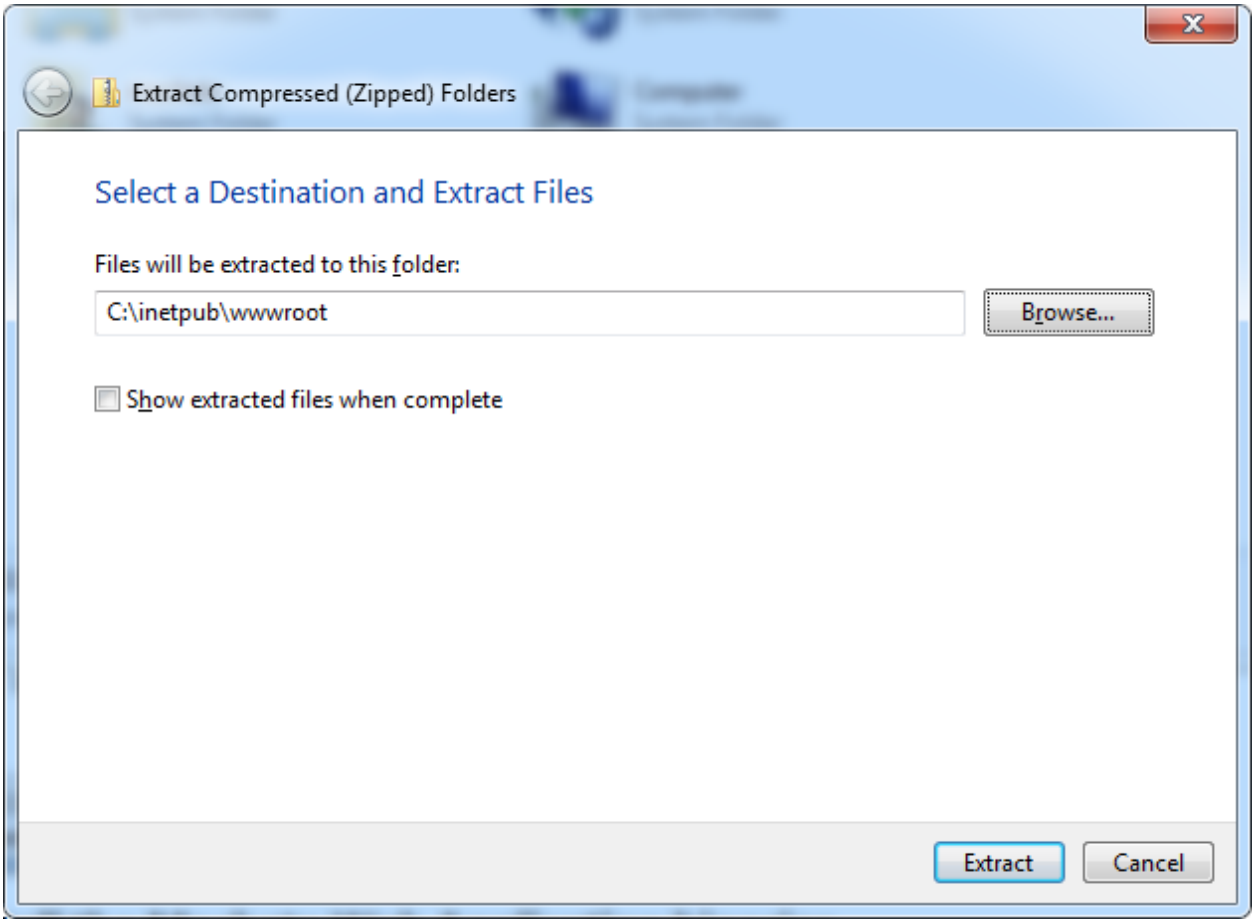

Attach Databases
Select a page
General
Script
Help
Databases to attach:
MDF File Location
Database ...
Attach As
Owner
Status
Message
Add...
Remove
Database details:
Original File Name
File Type
Current File Path
Message
Add Catalog...
Remove
Connection
Server:
localhost\SQLEXPRESS
Connection:
machete-PC\machete
View connection properties
Progress
Ready
OK
Cancel

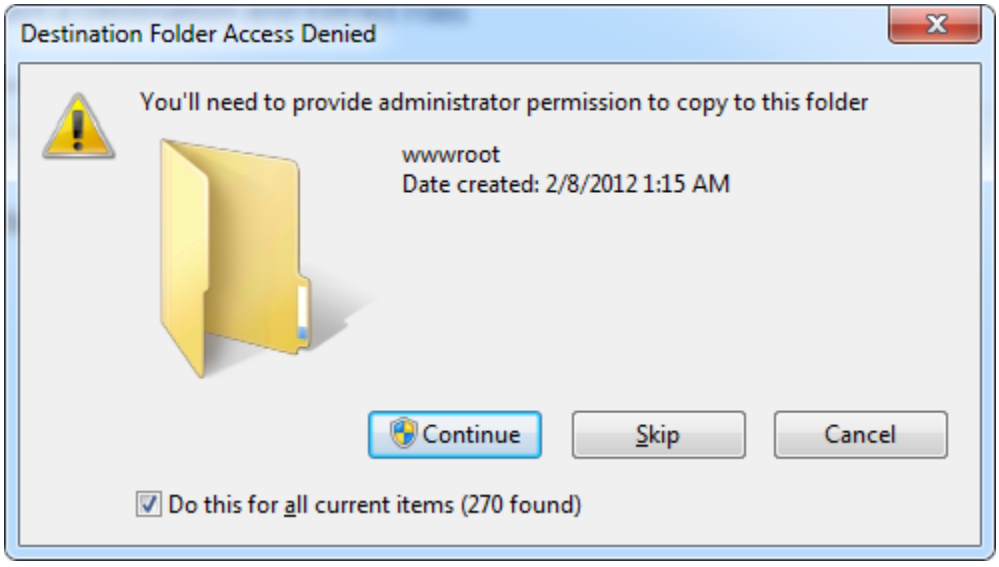

Locate Database Files - MACHETE-PC\SQLEXPRESS
Select the file:
$Recycle.Bin
Documents and Settings
f1898658efb5c8b7d57c
inetpub
PerfLogs
Program Files
Common Files
DVD Maker
Internet Explorer
Microsoft
Microsoft Games
Microsoft SQL Server
100
80
90
MSSQL10_50.SQLEXPRESS
MSSQL
Backup
Binn
DATA
ASPNETDB.MDF
ELMAHlog.mdf
master.mdf
model.mdf
MSDBData.mdf
tempdb.mdf
Install
Selected path:
C:\Program Files\Microsoft SQL Server\MSSQL
Files of type:
Database Files(*.mdf)
File name:
ASPNETDB.MDF
OK
Cancel

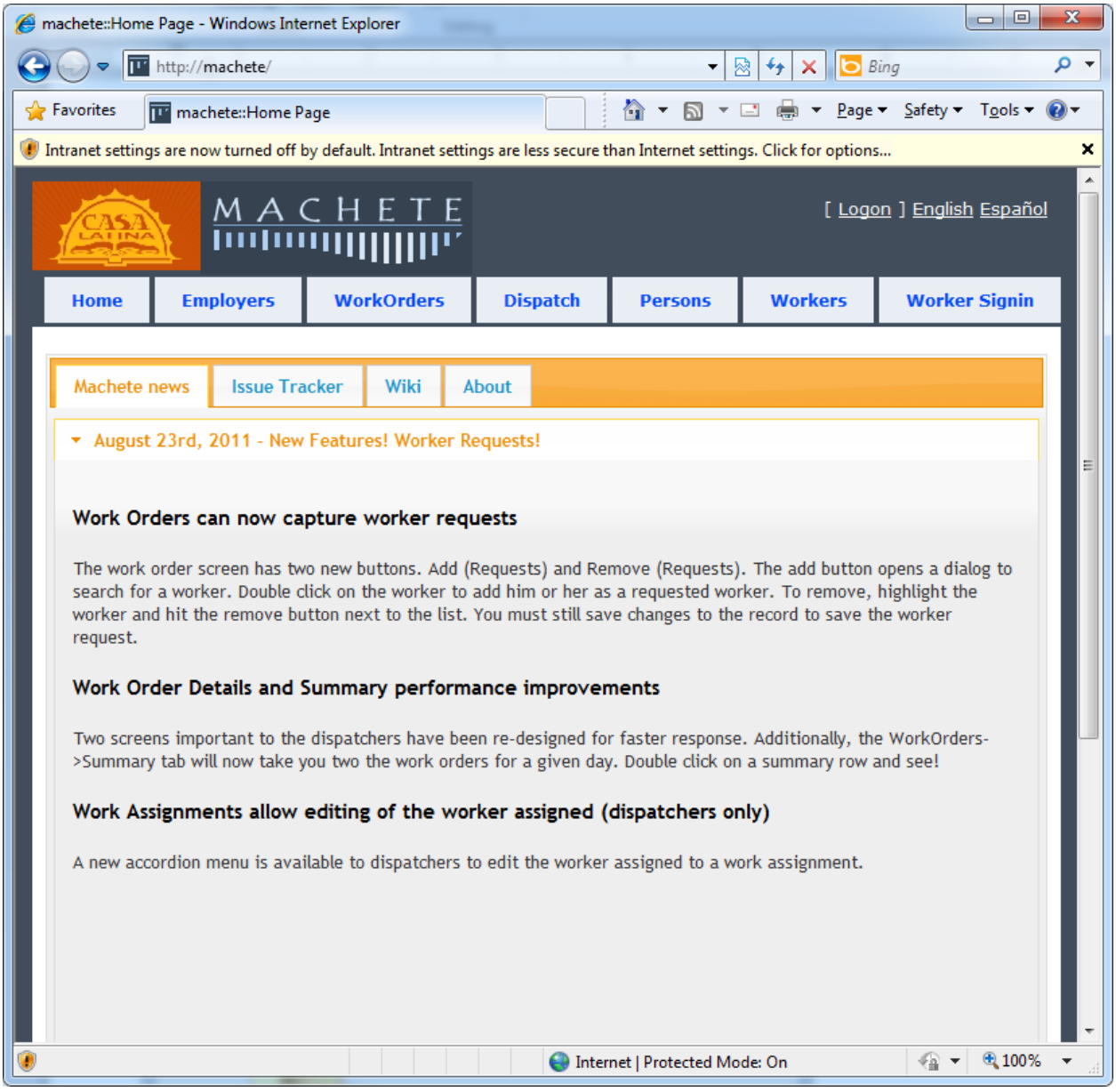

Attach Databases
Select a page
General
Script
Help
Databases to attach:
MDF File Location
Database ...
Attach As
Owner
Status
Message
C:\Program Files\Mi...
aspnetdb
aspnetdb
machet...
Add...
Remove
"aspnetdb" database details:
Original File Name
File Type
Current File Path
Message
aspnetdb.mdf
Data
C:\Program Files\Micros...
aspnetdb_log.ldf
Log
C:\Program Files\Micros...
Add Catalog...
Remove
Connection
Server:
localhost\SQLEXPRESS
Connection:
machete-PC\machete
View connection properties
Progress
Ready
OK
Cancel

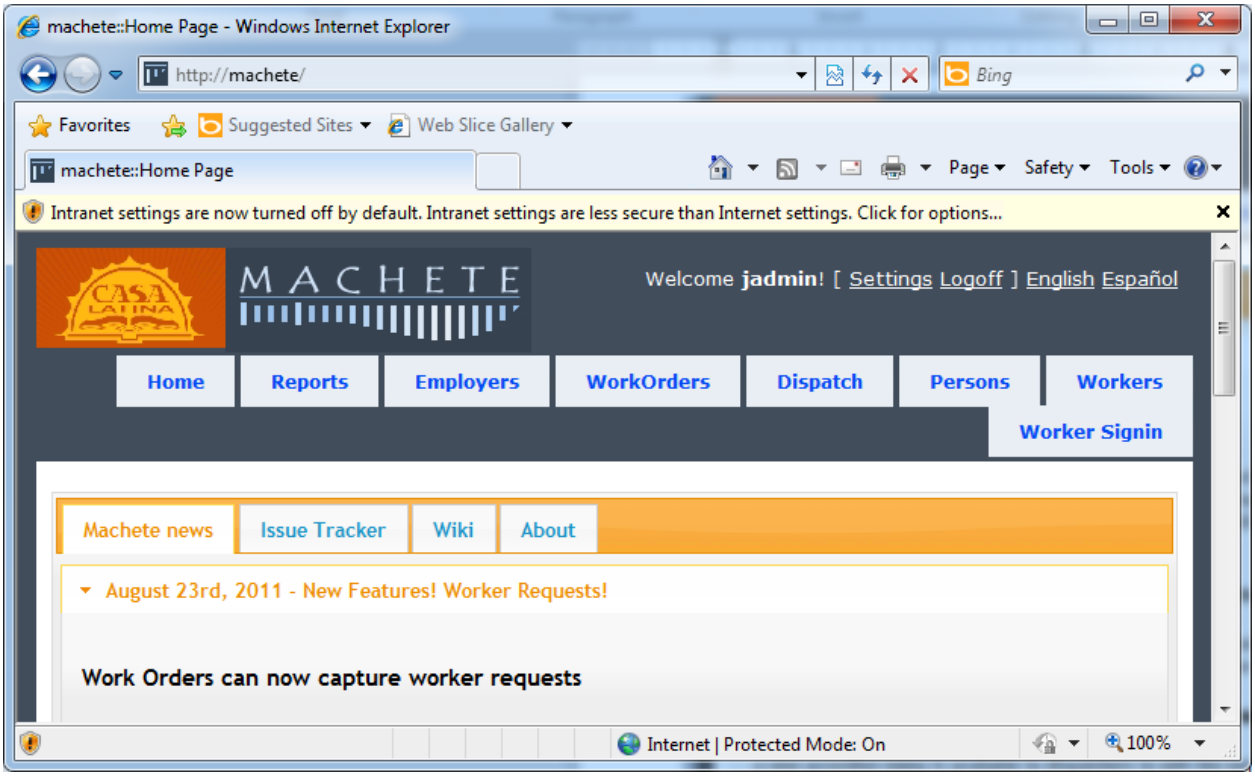

Microsoft SQL Server Management Studio
File Edit View Debug Tools Window Community Help
New Query
Object Explorer
Connect
localhost\SQLEXPRESS (SQL Server 10.50.1600
Databases
System Databases
aspnetdb
Security
Server Objects
Replication
Management
Ready


Microsoft SQL Server Management Studio
File Edit View Debug Tools Window Community Help
New Query
Object Explorer
Connect
localhost\SQLEXPRESS (SQL Server 10.50.1600
Databases
System Databases
aspnetdb
machetelog
Security
Server Objects
Replication
Management
Ready


Extract Compressed (Zipped) Folders
Select a Destination and Extract Files
Files will be extracted to this folder:
C:\inetpub\wwwroot
Browse...
Show extracted files when complete
Extract
Cancel


Destination Folder Access Denied
You'll need to provide administrator permission to copy to this folder
wwwroot
Date created: 2/8/2012 1:15 AM
Continue
Skip
Cancel
Do this for all current items (270 found)


machete::Home Page - Windows Internet Explorer
http://machete/
Bing
Favorites
machete::Home Page
Page
Safety
Tools
Intranet settings are now turned off by default. Intranet settings are less secure than Internet settings. Click for options...
MACHETE
[Logon] English Español
Home
Employers
WorkOrders
Dispatch
Persons
Workers
Worker Signin
Machete news
Issue Tracker
Wiki
About
August 23rd, 2011 - New Features! Worker Requests!
Work Orders can now capture worker requests
The work order screen has two new buttons. Add (Requests) and Remove (Requests). The add button opens a dialog to search for a worker. Double click on the worker to add him or her as a requested worker. To remove, highlight the worker and hit the remove button next to the list. You must still save changes to the record to save the worker request.
Work Order Details and Summary performance improvements
Two screens important to the dispatchers have been re-designed for faster response. Additionally, the WorkOrders->Summary tab will now take you two the work orders for a given day. Double click on a summary row and see!
Work Assignments allow editing of the worker assigned (dispatchers only)
A new accordion menu is available to dispatchers to edit the worker assigned to a work assignment.
Internet | Protected Mode: On
100%


machete::Home Page - Windows Internet Explorer
http://machete/
Bing
Favorites
Suggested Sites
Web Slice Gallery
machete::Home Page
Page
Safety
Tools
Intranet settings are now turned off by default. Intranet settings are less secure than Internet settings. Click for options...
MACHETE
Welcome jadmin! [Settings Logoff] English Español
Home
Reports
Employers
WorkOrders
Dispatch
Persons
Workers
Worker Signin
Machete news
Issue Tracker
Wiki
About
August 23rd, 2011 - New Features! Worker Requests!
Work Orders can now capture worker requests
Internet | Protected Mode: On
100%