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Chapter 1
Deploying SAS Enterprise BI Server

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What Is Covered in This Document?

This document begins where you and your SAS representative have decided what software you need and on what machine you will install the software. This document covers all of the pre-installation, installation, and configuration tasks that you must perform to deploy the SAS 9.4 Enterprise BI Server offering on a single machine running Microsoft Windows. By the time you reach the end of this document, all of your SAS servers, middle-tier servers, and clients will be functional.

Installing the software is easier if you read the following documents:

• *SAS Intelligence Platform: Overview*
  
  The overview guide helps you understand the architecture of the system.

• configuration documentation for any SAS solution licensed along with your SAS Enterprise BI Server offering.

If your SAS deployment plan includes a solution, then you might also be referred to additional solution-specific configuration information.

**TIP** When deploying SAS solutions, you follow many of the same steps that are described in this document. Toward the end of the SAS Deployment Wizard
configuration prompting, you should turn to your solution-specific configuration documentation to complete your deployment.

Note: If you have licensed SAS solutions, consult with your SAS representative for more information.

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**Deployment Process Overview**

The following list summarizes the steps required to install and configure SAS 9.4 Enterprise BI Server on a single machine running Microsoft Windows:

1. Create a SAS Software Depot.
2. Review documentation.
4. Install and configure SAS.
5. Perform post-deployment steps.
6. Add SAS users to the system.

Subsequent sections in this guide provide the step-by-step instructions that you need to perform these steps.

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**Step 1: Create a SAS Software Depot**

The SAS Enterprise BI Server must be installed from a SAS Software Depot, which is a repository for your SAS software media. If you already have a SAS Software Depot, skip to “Step 3: Prepare Your Environment” on page 3.

Note: If you receive your SAS order by electronic software download, please refer to your software order email (SOE) for instructions on how to download your SAS order and create a software depot. If you have already downloaded your SAS order, your SAS Software Depot is automatically created for you. Proceed to “Step 2: Review Documentation” on page 3.

If your installation media is in DVD format, create a SAS Software Depot by following these steps:

1. Insert Disk 1 into your DVD drive.
2. If the SAS Deployment Wizard does not automatically launch, open the DVD in Windows Explorer, right-click setup.exe, and select Run as Administrator.
3. When prompted, select your language and click OK.
4. On the Select Deployment Task page of the SAS Deployment Wizard, select Create or Add to a SAS Software Depot.
5. On the Specify Order Details page, click Next.
6. On the Specify Order Options page, select Include complete order contents and click Next.
7. On the Specify SAS Software Depot Directory page, specify the location where you want to create your SAS Software Depot and click Next. The location can be on the local machine or it can be on a network drive.
8. On the Final Review page, click **Start** to create the SAS Software Depot.

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**Step 2: Review Documentation**

It is very important to check for late-breaking installation information in SAS Notes and also to review the system requirements for your SAS software.

- **SAS Notes**
  

- **system requirements**
  
  Refer to the system requirements for your SAS solution, available at [http://support.sas.com/resources/sysreq/index.html](http://support.sas.com/resources/sysreq/index.html).

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**Step 3: Prepare Your Environment**

**Overview of Prepare Your Environment**

Before you can deploy your SAS software, you need to prepare your environment. This includes setting up operating system user and group accounts on the machines that are required by your SAS software deployment and installing third-party software that is used by the SAS deployment.

**Set Up User Accounts**

User accounts that are needed for your SAS deployment can be either local accounts on the machine on which you are deploying SAS or domain accounts that have access to the machine. Although you can use your own account names, SAS recommends using the names that are listed in the following table. If you choose to use different account names, be sure to record those names for future reference.

<table>
<thead>
<tr>
<th>Account</th>
<th>Required Operating System Rights</th>
<th>Recommended User IDs</th>
<th>Actual User ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installer</td>
<td>Administrator</td>
<td><em>my-domain@sas</em></td>
<td><em>my-machine@sas</em></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>my-domain@my-machine</em></td>
<td></td>
</tr>
<tr>
<td>SAS Spawned Servers*</td>
<td>Log on as a batch job</td>
<td><em>my-domain@sassrv</em></td>
<td><em>my-machine@sassrv</em></td>
</tr>
<tr>
<td>SAS First User*</td>
<td>Log on as a batch job</td>
<td><em>my-domain@sasdemo</em></td>
<td><em>my-machine@sasdemo</em></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>my-domain@my-machine</em></td>
<td></td>
</tr>
</tbody>
</table>
The accounts that are listed in the preceding table have the following purposes:

- **Installer** – This account is used to install SAS. After you create the account, log on to the machine with this account to perform the deployment. It is recommended that this account remain available for future SAS maintenance and updates.

- **SAS Spawned Servers** – This account is the process owner for stored processes and pooled workspace servers on the machine. During the SAS deployment, the SAS Deployment Wizard prompts you to enter the account name and password for this account.

- **SAS First User** – This account, which is often referred to as sasdemo, is used for demonstration purposes. During the SAS deployment, the SAS Deployment Wizard prompts you to specify the account name for this account. The SAS First User account is not a required account. However, it is used for the purposes of this installation guide.

- **SAS Client Users** – SAS client users are any users that connect to the SAS server to launch workspace servers via clients such as SAS Enterprise Guide or SAS Add-In for Microsoft Office. These users should be added to the SAS Server Users group, which is discussed in the next section, “Set Up the SAS Server Users Group” on page 4.

### Set Up the SAS Server Users Group

To run SAS under Windows, users must have the **Log on as a batch job** right on the machine that hosts the server. We recommend that you create a group on the server, add SAS users to the group, and then assign that group the **Log on as a batch job** right.

**Note:** The SAS Deployment Wizard automatically assigns the **Log on as a batch job** right for the SAS Spawned Servers and SAS First User accounts.

To create the SAS Server Users group and assign the **Log on as a batch job** right to it, do the following:

1. Follow the steps appropriate for your version of Microsoft Windows:
   - For Windows 7 and Windows Server 2008: Click **Start**. In the **Search programs and files** field, enter **Computer Management**, and select it from the **Start** menu when it appears.
   - For Windows Server 2003: Select **Start** ⇒ **Settings** ⇒ **Control Panel** ⇒ **Administrative Tools** ⇒ **Computer Management**.

2. Expand **Local Users and Groups**.

3. Right-click **Groups** and select **New Group**.

4. Name the group SAS Server Users, and click **Create**.

5. Assign **Log on as a batch job** rights to the new SAS Server Users group.
• For Windows 7 and Windows Server 2008: Click Start. In the Search programs and files field, enter Local Security Policy, and select it from the Start menu when it appears.


6. In the left pane of the Local Security Policy Settings window, expand Local Policies, and click User Rights Assignment.

7. In the right-hand pane under the Policy column, double-click Log on as a batch job. This displays the Log on as a batch job Properties dialog box.

8. On the Local Security Setting tab, click Add User or Group to display the dialog box. In the Enter the object names to select field, enter SAS Server Users and click Check Names to select the SAS Server Users group. Then, click OK to return to the Log on as a Batch Job Properties dialog box. Verify that the new group that you entered appears in the text box on the Local Security Settings tab.

9. Click OK to close the dialog box and return to the Local Security Policy window.

In the future, any new SAS users that you add to your SAS system can be granted Log on as a batch job rights by adding them to the SAS Server Users group in Windows. Because the SAS Server Users group was assigned the Log on as a batch job right, it is not necessary to explicitly assign this right to users in the Local Security Policy window.

**Download and Install JUnit**

JUnit is an open-source testing framework for Java and the de facto standard for writing unit and regression tests. Some of the validation tests provided with SAS products run under the SAS Deployment Tester framework and require JUnit. During SAS installation, the SAS Deployment Wizard prompts you to specify the location of the JUnit JAR file.

For more information about JUnit version requirements and a download link, go to SAS Support for Other Third-Party Software Products.

**Table 1.2 JUnit**

<table>
<thead>
<tr>
<th>Description</th>
<th>Default Values</th>
<th>Actual Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>JUnit JAR file location</td>
<td>\Program Files\JUnit</td>
<td>/usr/local/junit</td>
</tr>
</tbody>
</table>

**Step 4: Install and Configure SAS**

To install and configure SAS 9.4 interactively on a single machine, follow these steps:

1. Log on to the machine with a user ID using the Installer account that you created earlier or using an account that is a member of the Windows Administrators group.
2. Temporarily disable all anti-virus, anti-malware, anti-spyware, and firewall software. These types of programs can interfere with the deployment process and block files as they are being copied and extracted.


4. Choose Language
   - From the drop-down list, select the language that you want the deployment wizard to use when it displays text, and click OK.

5. Select Deployment Task
   - Select Install SAS Software, and click Next.

6. Specify SAS Home
   - If you want to specify a different location other than the default, enter the location in SAS Home. Click Next.

   Although your SAS installation directory (which the wizard refers to as SAS Home) and SAS configuration directories can share the same parent directory, one directory cannot reside inside another. Also, the SAS installation directory should not be a directory within your SAS Software Depot.

   **CAUTION:**
   The directory path for the SAS installation directory (SAS Home) cannot contain parentheses. Using parentheses causes SAS Environment Manager scripts to fail.
7. Select Deployment Type
   • Confirm that **Perform a Planned Deployment**, **Install SAS Software**, and **Configure SAS Software** are all selected. Click **Next**.

8. Specify Deployment Plan
   • Choose **Select a standard deployment plan**.
   • From the drop-down menu, select **EBI, one machine**, and then click **Next**.
9. Select Deployment Step and Products to Install

- From the Deployment Step drop-down menu, make sure that Step 1: Middle Tier, and Clients is selected. Click Next.

**Note:** Included in your SAS 9.4 order are procedures that enable you to take advantage of additional functionality that is provided by SAS Viya. You must have a SAS Viya license to use the OPTNETWORK procedure and the procedures for these products:

- SAS Visual Data Mining and Machine Learning
- SAS Visual Statistics
- SAS Econometrics
- SAS Visual Forecasting
10. Select SAS Add-In for Microsoft Office Mode

- This page appears when the deployment wizard is unable to detect the bit capacity of Microsoft Office. Specify which mode of SAS Add-In for Microsoft Office to install, and click Next.

- Select 32-bit Compatibility Mode if you are running 32-bit Microsoft Office. 
  
  Note: The bit capacity of SAS Add-In for Microsoft Office must match the bit capacity of Microsoft Office.

- Select 64-bit Native Mode if you are running 64-bit Microsoft Office.
11. Specify SAS Installation Data File
   • Click Browse, locate your SAS installation data file, and then click Next.

12. Select Language Support
   • Click Clear All. (English remains selected as the default language.)
   • Add additional languages that you want SAS software to support, and then click Next.

13. Select Regional Settings
   • Accept the default value of English (United States, or select a different language, region, and locale in Language (Region) [Locale]. Click Next.
14. Select Microsoft Office Applications
   • Choose the Microsoft Office applications for which you want the SAS Add-In for
     Microsoft Office activated. Click Next.

15. Specify Remote Communication Configuration
   • Do not change the default information that is displayed on this page. Click Next.

16. Checking System
   • Wait while the SAS Deployment Wizard checks your system. When it is finished,
     click Next.
17. Review Required Software

- Review the list of third-party software that is required for the SAS software that you are installing on the current machine. Click Next.

18. Specify Software Location

- Do not change the default information that is displayed on this page. Click Next.
19. Select Configuration Prompting Level
   - Make sure that **Typical** is selected, and click **Next**.

20. Specify Configuration Information
   - Do not change the default information that is displayed on this page unless you want the SAS configuration directory to reside in a different folder. Click **Next**.
21. Local Machine Name

- In **Fully-qualified Local Host Name**, enter the complete name of the local host. The fully qualified local host name typically takes the form of the local host name plus the domain name server (for example, MyMachine.example.com).

  *Note:* As noted in RFC 952, underscores and whitespace characters are not allowed in host names.

  **TIP** If you do not know the domain name server used at your site, check with your system administrator.

- In **Short Local Host Name**, enter a short host name. The short local host name is the abbreviated, more common name of the host, usually a single word (for example, MyMachine).
22. Migration Information

- Do not select **Perform migration**. Click **Next**.

23. Windows Shortcuts

- In **Create Windows Shortcuts**, make sure that **For All Users** is selected. Click **Next**.
24. Integrated Windows Authentication
   - Do not select **Use Integrated Windows authentication (single sign-on)** unless your system administrator has already set up IWA in your computing environment. Click **Next**.

25. Token-based Authentication
   - Do not select **Use SAS token authentication**. Click **Next**.

26. SAS Metadata Server
   - Do not change the default information that is displayed on this page. Click **Next**.

27. SAS Metadata Server: Override Backup Location
   - Do not change the default information that is displayed on this page. Click **Next**.

28. SAS Metadata Server: Override Service Login Account
   - Do not change the default information that is displayed on this page. Click **Next**.

29. Deployment Accounts: Type of Accounts
   - Do not change the default information that is displayed on this page. Click **Next**.

30. External Account: Installer
   - In the relevant fields, enter the user ID and password for the Installer account that you are using to install and configure the SAS Metadata Server. (This should be the user account under which you are currently logged on.)

   Prefix the user ID with either the domain or machine name (for example, `domain\user-ID` or `machine-name\user-ID`). Click **Next**.
31. SAS Internal Account: Unrestricted Administrator
   • Enter and confirm the password that is used for the internal sasadm@saspw account.

   Note: Record this password because you will need it in the future.

32. SAS Internal Account: Trusted User
   • Enter and confirm the password that is used for the internal sastrust@saspw account. Click Next.

   Note: Record this password because you will need it in the future.
33. Anonymous Web Access
   - Make sure that Enable anonymous web access is selected. Click Next.

34. SAS Internal Account: Anonymous Web User
   - Enter and confirm the password that is used for an internal webanon@saspw account. Click Next.
     
     Note: Remember this password as you will need it in the future.
35. External Account: SAS Spawned Servers Account

- In the relevant fields, enter the user ID and password for the SAS Spawned Servers account.

  *Note:* Record this password because you will need it in the future.

  (For more information, see “Set Up User Accounts” on page 3.)

  Prefix the user ID with either the domain or machine name (for example, `domain\user-ID` or `machine-name\user-ID`). Click Next.

36. Deployment Accounts: First User

- Select *Set up a First User Identity*. Click Next.
The SAS First User account, which is often referred to as sasdemo, is used for demonstration purposes. Although it is not required, the SAS First User account can be used to validate your deployment.

37. External Account: First User

- In **External User ID**, enter the user ID for the SAS First User account. (For more information, see “Set Up User Accounts” on page 3.)

  Prefix the user ID with either the domain or machine name (for example, `domain\user-ID` or `machine-name\user-ID`). Click Next.
38. Encryption
   • Do not change the default information that is displayed on this page. Click Next.

39. Estimated System Size
   • Do not change the default information that is displayed on this page. Click Next.

40. E-mail Server
   • In **Host Name**, enter the host name for an SMTP email server at your site. SAS uses this server to send alerts for system-related issues to an administrator. Click Next.

   **TIP** If you do not know the name of the SMTP email server at your site, check with your system administrator.
41. SAS Object Spawner

- Do not change the default information that is displayed on this page. Click Next.

*Note:* On this page and on several pages that follow, any ports listed must be open within your site’s computing environment. For more information, see “Pre-installation Checklist for Ports for SAS” in *SAS Intelligence Platform: Installation and Configuration Guide*.

42. SAS Object Spawner: Port Bank

- Do not change the default information that is displayed on this page. Click Next.
43. SAS Application Server: Server Context
   • Do not change the default information that is displayed on this page. Click **Next**.

44. SAS Workspace Server
   • Do not change the default information that is displayed on this page. Click **Next**.

45. SAS Pooled Workspace Server
   • Do not change the default information that is displayed on this page. Click **Next**.

46. SAS Stored Process Server
   • Do not change the default information that is displayed on this page. Click **Next**.

47. Stored Process: Multibridge Connections
   • Do not change the default information that is displayed on this page. Click **Next**.

48. SAS OLAP Server
   • Do not change the default information that is displayed on this page. Click **Next**.

49. SAS Web Infrastructure Platform Data Server
   • Enter and confirm a password that SAS creates for the dbmsonwer user ID. Click **Next**.

   **Note:** There are password restrictions for SAS Web Infrastructure Platform Data Server. Make sure that your password meets the criteria described in “SAS Web Infrastructure Platform Data Server” in *SAS Intelligence Platform: Middle-Tier Administration Guide*.

   **Note:** Record this password because you will need it in the future.

   • Do not change the default information that is displayed on this page. Click **Next**.

50. SAS DATA Step Batch Server
   • Do not change the default information that is displayed on this page. Click **Next**.
51. SAS Deployment Tester Server

- Do not change the default port information that is displayed on this page. Click Next.
- In JUnit JAR File, enter the JAR file path (for example, C:\junit\junit-4.8.1.jar) or click Browse to select it. Click Next.

For more information, see “Download and Install JUnit” on page 5.

52. SAS Web Server: Automated or Manual Configuration Option

- Do not change the default information that is displayed on this page. Click Next.

53. SAS Web Server: Configuration

- Do not change the default information that is displayed on this page. Click Next.

54. Web Application Server: JMS Configuration

- Do not change the default information that is displayed on this page. Click Next.

55. Web Application Server: Configuration

- Do not change the default information that is displayed on this page. Click Next.

56. Web Application Server: Ports

- Do not change the default information that is displayed on this page. Click Next.

57. Web Applications: Automatic Deployment

- Do not change the default information that is displayed on this page. Click Next.

58. In URLs White List, enter a comma-delimited list of additional known hosts and domains to trust in the following form:

    http|https://host[:port]|domain/, ...

The valid URLs whitelist can include just a list of host names to trust. The valid URLs whitelist can also include wildcards such as * for host name and domain.
Note: The port number must be specified if the whitelisted site uses port numbers other than the standard 80 for HTTP or 443 for HTTPS.

For example:

https://myserver:443/, http://example.com

For security reasons, you must list any host name URL for any site that could redirect browsers to your software. This might include corporate sites linking to your software for reporting purposes or single sign-on servers.

For example, if https://corporatePortal.company.com/ links to your server, then enter https://corporatePortal.company.com/ as one entry. This field enables you to add additional known hosts and domains to a preset list automatically created by the SAS configuration process.

For more information, see “Configure the Cross Domain Proxy Servlet through a Whitelist” in SAS Intelligence Platform: Middle-Tier Administration Guide.

• Select Enter advanced options for URL white list handling to display an additional page on which you can specify advanced options for the whitelist.

59. SAS Web Application Themes
  • Do not change the default information that is displayed on this page. Click Next.

60. SAS Web Report Studio: Clustering Support
  • Do not change the default information that is displayed on this page. Click Next.

61. SAS Web Report Studio: In-Process Scheduling Ports
  • Do not change the default information that is displayed on this page. Click Next.

62. SAS Content Server: Repository Directory
  • Do not change the default information that is displayed on this page. Click Next.

63. SAS Information Delivery Portal: Samples
  • Do not change the default information that is displayed on this page. Click Next.
64. SAS Environment Manager: Administration Database Configuration

- Enter and confirm a password for the adminowner user ID. Click **Next**.
  
  *Note:* Record this password because you will need it in the future.

- Do not change the default information that is displayed on this page. Click **Next**.

65. SAS Internal Account: SAS Environment Manager Service Account

- Enter and confirm a password for the SAS Environment Manager Service account (sasevs@saspw). Click **Next**.

  *Note:* Record this password because you will need it in the future.

  The password must contain at least six characters. Make sure that you enter the same password that was specified in any previous SAS Environment Manager configuration prompts.
66. SAS Environment Manager: Database Configuration

- Enter and confirm a password and an encryption passphrase that the deployment wizard uses when creating credentials for the SAS Environment Manager user ID. Click Next.

  Note: Record this password and passphrase because you will need them in the future.

  The password must contain at least six characters.

  The passphrase must be at least eight characters long and can contain letters and numbers only.

- Do not change the information that is displayed on this page. Click Next.
67. SAS Application Themes
   • Do not change the default information that is displayed on this page. Click Next.

68. SAS Visual Analytics Transport Service: Whitelist Mobile Devices
   • Do not change any of the default values displayed on this page. Click Next.

69. SAS Deployment Backup and Recovery Tool: Enable Central Vault
   • Do not change the default information that is displayed on this page. Click Next.

   **Tip** If you are deploying a SAS solution, you should refer to your solution-specific documentation to complete your deployment.

70. Deployment Summary
   • Make one of the following choices:
     • Click **Start** to begin installing SAS files and writing the configuration to the current machine.
     The deployment wizard launches the installation and configuration process and provides an ongoing status update.
     • Click **Back** to navigate to previous pages to change installation and configuration information.
     • Click **Cancel** to terminate the deployment wizard session. Note that you will lose installation and configuration information previously entered.

   **CAUTION:**
   If you encounter a situation in which the deployment wizard reports a configuration failure, leave the error message displayed. Do not continue. Consult additional documentation and, if necessary, contact SAS Technical Support. Moving past an error most often results in having to delete your deployment and start over.

   On Windows, the deployment wizard checks to make sure that your machine contains the minimum system requirements necessary to run SAS 9.4. Sometimes, it is necessary to reboot your machine after the wizard has installed
certain system components. When this occurs, after you log back on to the machine, the wizard continues to the next configuration step in your SAS deployment process.

71. Deployment Complete

- A green check mark next to every item on this page indicates that your deployment completed successfully. Click **Next**.

- If your deployment was successful, then you are ready to perform the post-deployment steps that are documented in “Step 5: Perform Post-Deployment Steps” on page 31.
• If you received errors during your deployment, then contact SAS Technical Support at mailto:support@sas.com. Attach to your email the files listed in “Review SAS Deployment Tool Documents, Reports, and Logs” in *SAS Intelligence Platform: Installation and Configuration Guide*.

72. Additional Resources

• Click **Finish** to close the SAS Deployment Wizard.

73. Configuration Guidelines and Details

• To complete your SAS deployment, review the configuration guidelines and details and perform the steps listed.
Configuration Guidelines and Details (the Instructions.html file) is automatically generated by the deployment wizard. It has post-installation steps specific to your SAS order that you must perform.

Now that you have granted users the required host and SAS system access, the users are ready to begin using the SAS client software.

Step 5: Perform Post-Deployment Steps

After your deployment has completed, there are some post-deployment steps specific for your SAS order that are documented in your Instructions.html file. Located in \SAS-configuration-directory\Lev\Documents, Instructions.html provides the steps for checking that your SAS servers are running and that your web applications were properly deployed.
If you have not already done so, use Instructions.html and perform all the post-deployment steps that it contains.

Remember to restart any anti-virus, anti-malware, anti-spyware, and firewall software that you disabled to deploy SAS.

For more information, refer to “What to Do Next: Administration Tasks” in SAS Intelligence Platform: Installation and Configuration Guide.

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**Step 6: Add SAS Users**

Now that you have deployed SAS and have successfully validated that your software is working properly, it is now time to add your SAS users to the SAS system. Adding host or domain accounts for SAS users to the SAS metadata gives the user a SAS metadata identity. This enables the SAS users to use the software and access SAS metadata objects.

For more information, see *SAS Management Console: Guide to Users and Permissions*.

Perform the following steps to add SAS users to SAS metadata:

1. Grant the host or domain accounts for each user the required **Log on as a batch job** permission. You can do this by adding the user accounts to the SAS Servers Group that was created in the section “Set Up the SAS Server Users Group” on page 4.

2. Create a metadata identity for each user. Follow these steps using SAS Management Console:
   a. From the Windows **Start** menu, select **All Programs** ➜ **SAS** ➜ **SAS Management Console**.
b. In the Log On dialog box, enter the credentials for the SAS Unrestricted User (sasadm@saspw) and the password specified when you deployed SAS.

c. Select User Manager.

d. Select Actions ⇒ New ⇒ User.

e. In the Name text box, enter the name of the user.

f. Click the Accounts tab, and then click New.

g. In the dialog box that appears, enter the fully qualified user ID (for example, domain\user-ID or machine\user-ID). Leave the Password field blank and keep the default value DefaultAuth for the Authentication Domain field.

h. Click OK.

i. Then, click OK again.

Now that you have granted users the required host and SAS system access, the users are ready to begin using the SAS client software.
Recommended Reading

Here is the recommended reading list for this title:

- *SAS Intelligence Platform: Data Administration Guide.*
- *SAS Intelligence Platform: Desktop Application Administration Guide.*
- *SAS Intelligence Platform: Middle-Tier Administration Guide.*
- *SAS Intelligence Platform: Overview.*
- *SAS Web Applications: Tuning for Performance and Scalability.*
- SAS offers instructor-led training and self-paced e-learning courses to help you administer the SAS Intelligence Platform. For more information about the courses available, see [support.sas.com/admintraining](http://support.sas.com/admintraining).

For a complete list of SAS publications, go to [sas.com/store/books](http://sas.com/store/books). If you have questions about which titles you need, please contact a SAS Representative:

SAS Books
SAS Campus Drive
Cary, NC 27513-2414
Phone: 1-800-727-0025
Fax: 1-919-677-4444
Email: sasbook@sas.com
Web address: [sas.com/store/books](http://sas.com/store/books)
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