

# Installation Instructions: Web Security Gateway

Installation Instructions | Web Security Gateway | Version 7.8.x

Use the steps to complete a typical installation of Websense® TRITON® Web Security Gateway. In this configuration:

- ◆ The policy source (the standalone or primary Policy Broker and its Policy Server) resides on the TRITON management server machine.
- ◆ Websense Log Server resides on a dedicated Windows server.
- ◆ The reporting databases are hosted on a full version (not Express) of Microsoft SQL Server 2008, 2008 R2, or 2012 with the latest service pack from Microsoft.  
An end user who uses the Filtering Service has no direct or indirect influence over the database. Thus, although the log entry is stored in the MSSQL database, the user did not direct its storage and cannot retrieve it.

The only interface to the database itself is from the Log Server, the Reporting services, and the Manager. Filtering Service and Websense Content Gateway do not access the database, but instead send information via the Log Server.

This installation procedure includes the following steps:

- ◆ *Step 1: Prepare for installation, page 2*
- ◆ *Step 2: Prepare the management server, page 3*
- ◆ *Step 3: Select management server components, page 4*
- ◆ *Step 4: Install the TRITON infrastructure, page 4*
- ◆ *Step 5: Install the Web Security management components, page 9*
- ◆ *Step 6: Install an instance of Filtering Service, page 10*
- ◆ *Step 7: Install Log Server, page 18*
- ◆ *Step 8: Install additional Web Security components, page 22*
- ◆ *Step 9: Install Content Gateway, page 27*
- ◆ *Step 10: Initial Configuration, page 37*

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## Step 1: Prepare for installation

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Make sure that a supported version of Microsoft SQL Server (not Express) is installed and running in your network, and that:

- ◆ The SQL Server Agent service is running on the database host.
- ◆ The database host can be reached from the machine that will host the management server.
- ◆ You have identified a SQL Server or Windows Trusted account with appropriate permissions to create the database and run SQL Agent jobs.

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## Step 2: Prepare the management server

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In a typical installation, the TRITON management server hosts management components, Policy Broker, and Policy Server.

1. On the Windows machine that will host the TRITON management server:
  - a. Make sure there are no underscores in the machine's fully-qualified domain name (FQDN). The use of an underscore character in an FQDN is inconsistent with Internet Engineering Task Force (IETF) standards.



### Note

Further details of this limitation can be found in the IETF specifications RFC-952 and RFC-1123.

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- b. Make sure all Microsoft updates have been applied. There should be no pending updates, especially any requiring a restart of the system.
- c. Verify that there is sufficient disk space to download the installer, extract temporary installation files, and install the management components on the Windows installation drive (typically C).
- d. Make sure that the appropriate version of .NET Framework is installed. You can use Server Manager to install the appropriate version of .NET Framework.
  - Windows Server 2008 R2: Use version 2.0 or higher.
  - Windows Server 2012 or 2012 R2 (v7.8.2 or later): Version 3.5 is required. Note that .NET Framework 3.5 must be installed before adding any language packs to the operating system (as noted in the following article from Microsoft: <http://download.microsoft.com/download/D/1/0/D105DCF6-AC6C-439D-8046-50C5777F3E2F/microsoft-.net-3.5-deployment-considerations.docx>).
- e. Synchronize the clocks on all machines (including appliances) where a Websense component will be installed. It is a good practice to point the machines to the same Network Time Protocol server.
- f. Disable the antivirus software on the machine before installation. After installation, before restarting your antivirus software, see [Excluding Websense software from antivirus scans](#).
- g. Disable any firewall on the machine before starting the Websense installer and then re-enable it after installation. Open ports as required by the Websense components you have installed, and make sure that required ports are not being used by other local services on the machine.

Some ports are used only during installation and can be closed once installation is complete.

See [Web Security Default Ports](#) for more information about ports.

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- h. Disable User Account Control (UAC) and Data Execution Prevention (DEP) settings, and make sure that no Software Restriction Policies will block the installation.
  2. Log on to the machine with domain admin privileges.
  3. Download the TRITON Unified Installer (**WebsenseTRITON782Setup.exe**) from [mywebsense.com](http://mywebsense.com).

## Step 3: Select management server components

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Use the TRITON Unified Installer to install components on the management server machine.

1. Right-click **WebsenseTRITON78xSetup.exe** and select **Run as administrator** to launch the installer. After a few seconds, a progress dialog box appears, as files are extracted.
2. On the Welcome screen, click **Start**.
3. On the Subscription Agreement screen, select **I accept this agreement**, then click **Next**.
4. On the Installation Type screen, select **TRITON Unified Security Center**, then mark the **Web Security or RiskVision** check box and click **Next**.
5. On the **Summary** screen, click **Next** to continue the installation.  
TRITON Infrastructure Setup launches.

## Step 4: Install the TRITON infrastructure

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The TRITON infrastructure includes data storage and common components for the management modules of the TRITON console.

1. On the TRITON Infrastructure Setup Welcome screen, click **Next**.
2. On the Installation Directory screen, specify the location where you want TRITON Infrastructure to be installed and then click **Next**.
  - To accept the default location (recommended), simply click **Next**.
  - To specify a different location, click **Browse**.



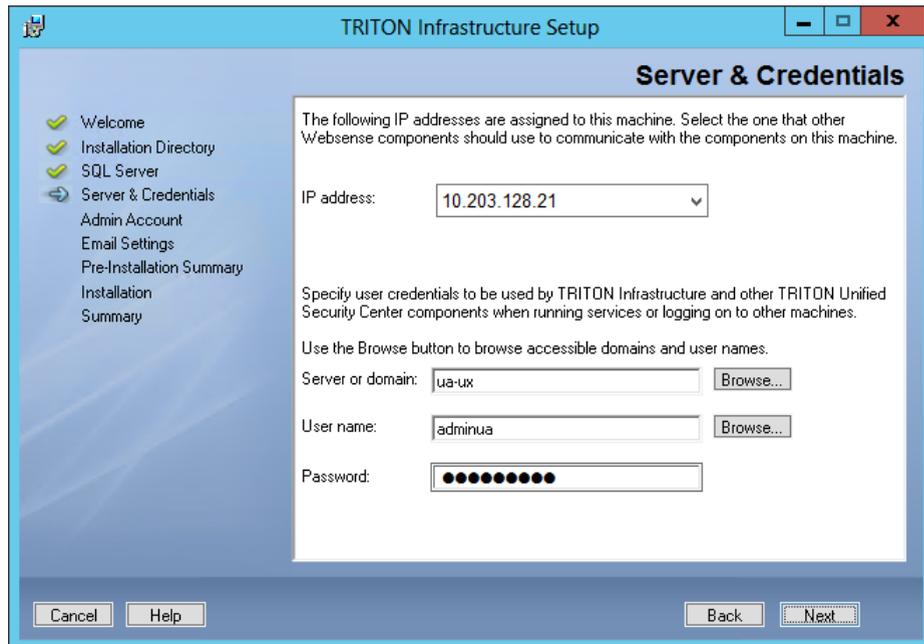
### Important

The full installation path must use only ASCII characters. Do not use extended ASCII or double-byte characters.

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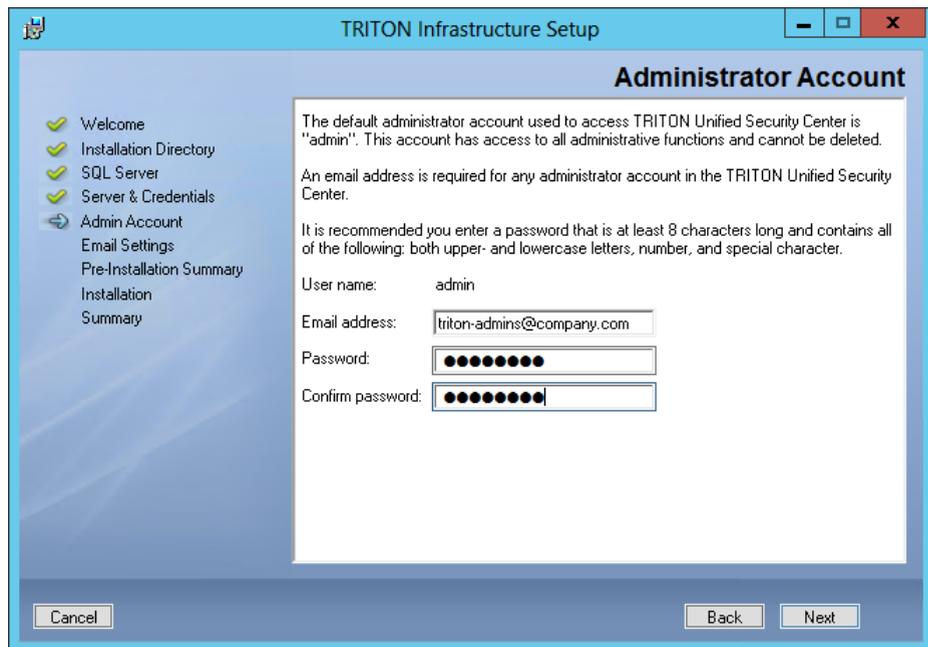


4. On the Server & Credentials screen, select the IP address of this machine and specify network credentials to be used by TRITON Unified Security Center.



- Select an **IP address** for this machine. If this machine has a single network interface card (NIC), only one address is listed.  
Administrators will use this address to access the TRITON console (via a web browser), and Websense component on other machines will use the address to connect to the TRITON management server.
- Specify the **Server or domain** of the user account to be used by TRITON Infrastructure and TRITON Unified Security Center. The name cannot exceed 15 characters.
- Specify the **User name** of the account to be used by TRITON Unified Security Center.
- Enter the **Password** for the specified account.

5. On the **Administrator Account** screen, enter an email address and password for the default TRITON console administration account: **admin**. When you are finished, click **Next**.



System notification and password reset information is sent to the email address specified (once SMTP configuration is done; see next step).

It is a best practice to use a strong password as described on screen.

6. On the **Email Settings** screen, enter information about the SMTP server to be used for system notifications and then click **Next**. You can also configure these settings after installation in the TRITON console.

TRITON Infrastructure Setup

### Email Settings

Configure the SMTP server to use when notifying TRITON administrators of a new or updated account. This server is also used for sending a new password when administrators forget their logon credentials.

You can set or change these settings on the TRITON Settings > Notification page in the TRITON Unified Security Center.

Configure email settings

IP address or hostname:  Port:

Sender email address:

Sender name:

Cancel Help Back Next



### Important

If you do not configure an SMTP server now and you lose the **admin** account password (set on previous screen) before the setup is done in the TRITON console, the “Forgot my password” link on the logon page does not provide password recovery information. SMTP server configuration must be completed before password recovery email can be sent.

- **IP address or hostname:** IP address or host name of the SMTP server through which email alerts should be sent. In most cases, the default **Port (25)** should be used. If the specified SMTP server is configured to use a different port, enter it here.
  - **Sender email address:** Originator email address appearing in notification email.
  - **Sender name:** Optional descriptive name that can appear in notification email. This is can help recipients identify this as a notification email from the TRITON Unified Security Center.
7. On the Pre-Installation Summary screen, verify the information and then click **Next** to begin the installation.
  8. The Installation screen appears, showing installation progress. Wait until all files have been installed.

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If the following message appears, check to see if port 9443 is already in use on this machine:

*Error 1920. Server 'Websense TRITON Central Access' (EIPManagerProxy) failed to start. Verify that you have sufficient privileges to start system services.*

If port 9443 is in use, release it and then click **Retry** to continue installation.

9. On the Installation Complete screen, click **Finish**.

You are returned to the Installer Dashboard and, after a few seconds, the Web Security component installer launches.

## Step 5: Install the Web Security management components

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In a typical deployment, the Web Security manager, the standalone or primary Policy Broker, and the central Policy Server reside on the TRITON management server.

1. On the Select Components screen, select:
  - TRITON - Web Security (selected by default)
  - Real-Time Monitor
  - Policy Broker and Policy Server
2. On the Policy Broker Replication screen, indicate which Policy Broker mode to use.
  - Select **Standalone** if this will be the only Policy Broker instance in your deployment.
  - Select **Primary**, then create a **Synchronization password** if you will later install additional, replica instances of Policy Broker.

The password may include between 4 and 300 alphanumeric characters.



### Important

If you are installing the primary Policy Broker, be sure to record the synchronization password. You must provide this password each time you create a Policy Broker replica.

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- Do **not** select Replica at this stage. You must install a standalone or primary Policy Broker before you can install a replica.

If you are not sure about which Policy Broker mode to choose, see [Managing Policy Broker Replication](#).

3. If the management server machine does not include a supported version of the Microsoft SQL Server Native Client and related tools, you are prompted to install the required components. Follow the on-screen prompts to complete this process.
4. On the Pre-Installation Summary screen, verify the information shown, then click **Next**.

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5. A progress screen is displayed. Wait for installation to complete.
  6. On the Installation Complete screen, click **Next**.

## Step 6: Install an instance of Filtering Service

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When the standalone or primary Policy Broker and the central Policy Server reside on the TRITON management server, you must install at least one instance of Websense Filtering Service that connects to the central Policy Server.

This instance of Filtering Service may reside:

- ◆ On a supported Linux server
- ◆ On a supported Windows server
- ◆ On a **filtering only** appliance

Note that using a software installation for this instance of Filtering Service may make for a more convenient deployment. A software deployment allows you to also install components like User Service and Usage Monitor for the central Policy Server. (These components don't reside on a filtering only appliance.)

Although other components (like Network Agent or a transparent identification agent) may be installed with Filtering Service, a second instance of Policy Server may **not** reside on this machine. This Filtering Service instance **must** connect to the central Policy Server on the TRITON management server machine.

### Using a filtering only appliance

The instructions that follow assume that you have already set up your appliance hardware as directed on the in-box Quick Start poster for your appliance.

#### Gather the data

Gather the following information before running the firstboot configuration script. Some of this information may have been written down on the Quick Start poster during hardware setup.

Security mode	Web
Which Web Security subscription? (if prompted)	Web Security Gateway

<p>Hostname (example: appliance.domain.com)</p> <p>1 - 60 characters long.  The first character must be a letter.  Allowed: letters, numbers, dashes, or periods.  The name cannot end with a period.</p> <p>If Content Gateway will be configured to perform Integrated Windows Authentication, the hostname cannot exceed 11 characters (excluding the domain name).</p> <p>For more information, see the section titled Integrated Windows Authentication in Content Gateway Manager Help.</p>	
IP address for network interface C	
Subnet mask for network interface C	
<p>Default gateway for network interface C (IP address) <i>Optional</i></p> <p>NOTE: If you do not provide access to the Internet for interface C, use the Web Security manager to configure P1 to download Master Database updates from Websense servers.</p> <p>See the Appliance Manager Help for information about configuring the interfaces. See the Web Security Help for information about configuring database downloads.</p>	
Primary DNS server for network interface C (IP address)	
Secondary DNS server for network interface C (IP address) <i>Optional</i>	
Tertiary DNS server for network interface C (IP address) <i>Optional</i>	
<p>Unified password (8 to 15 characters, at least 1 letter and 1 number)</p> <p>This password is for the following:</p> <ul style="list-style-type: none"> <li>• Appliance manager</li> <li>• Web Security manager</li> <li>• Content Gateway manager</li> </ul>	
Send usage statistics?	Usage statistics from appliance modules can optionally be sent to Websense to help improve the accuracy of categorization.

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## Run the firstboot script

Run the initial command-line configuration script (**firstboot**) as follows.

1. Access the appliance through a USB keyboard and monitor, or a serial port connection.



### Note

To configure the appliance, connect through the serial port or the keyboard/video ports and complete the firstboot script. For serial port activation, use:

- ◆ 9600 baud rate
  - ◆ 8 data bits
  - ◆ no parity
- 

2. Accept the subscription agreement when prompted.
3. When asked if you want to begin, enter **yes** to launch the **firstboot** activation script.

To rerun the script manually, enter the following command:

```
firstboot
```

4. At the first prompt, select the a security mode **Web**, then select **Web Security Gateway**.
5. Follow the on-screen instructions to provide the information collected above.

After the activation script has been completed successfully, you can access Appliance manager by opening a supported browser and entering this URL in the address bar:

```
http://<IP-address-of-interface-C>:9447/appmng/
```

Use the Appliance manager to configure your appliance network interfaces and policy source mode (**filtering only**). See your appliance [Getting Started](#) guide for details.

## Installing Filtering Service on Windows

To install Filtering Service on a supported Windows platform:

1. On the Windows machine that will host the first instance of Filtering Service:
  - a. Make sure there are no underscores in the machine's fully-qualified domain name (FQDN). The use of an underscore character in an FQDN is inconsistent with Internet Engineering Task Force (IETF) standards.



### Note

Further details of this limitation can be found in the IETF specifications RFC-952 and RFC-1123.

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- b. Make sure all Microsoft updates have been applied. There should be no pending updates, especially any requiring a restart of the system.
  - c. Verify that there is sufficient disk space to download the installer, extract temporary installation files, and install the management components on the Windows installation drive (typically C).
  - d. Make sure that the appropriate version of .NET Framework is installed. You can use Server Manager to install the appropriate version of .NET Framework.
    - Windows Server 2008 R2: Use version 2.0 or higher.
    - Windows Server 2012 or 2012 R2 (v7.81.2 and later): Version 3.5 is required.

Note that .NET Framework 3.5 must be installed before adding any language packs to the operating system (as noted in the following article from Microsoft: <http://download.microsoft.com/download/D/1/0/D105DCF6-AC6C-439D-8046-50C5777F3E2F/microsoft-.net-3.5-deployment-considerations.docx>).
  - e. Synchronize the clocks on all machines (including appliances) where a Websense component will be installed. It is a good practice to point the machines to the same Network Time Protocol server.
  - f. Disable the antivirus software on the machine before installation. After installation, before restarting your antivirus software, see [Excluding Websense software from antivirus scans](#).
  - g. Disable any firewall on the machine before starting the Websense installer and then re-enable it after installation. Open ports as required by the Websense components you have installed, and make sure that required ports are not being used by other local services on the machine.

Some ports are used only during installation and can be closed once installation is complete.

See [Web Security Default Ports](#) for more information about ports.
  - h. Disable User Account Control (UAC) and Data Execution Prevention (DEP) settings, and make sure that no Software Restriction Policies will block the installation.
2. Log on to the machine with domain admin privileges.
  3. Download the TRITON Unified Installer (**WebsenseTRITON783Setup.exe**) from [mywebsense.com](http://mywebsense.com).
  4. Right-click **WebsenseTRITON783Setup.exe** and select **Run as administrator** to launch the installer. After a few seconds, a progress dialog box appears, as files are extracted.
  5. On the Welcome screen, click **Start**.
  6. On the Subscription Agreement screen, select **I accept this agreement**, then click **Next**.
  7. On the Installation Type screen, select **Custom** and then click **Next**.
  8. On the Custom Installation screen, click the **Install** link next to Web Security or RiskVision.

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9. If the machine has multiple NICs, on the Multiple Network Interfaces screen, select the IP address of the NIC that Web Security components should use for communication, then click **Next**. (Prior to 7.8.2, this screen appears after the Policy Server Connection screen in step 11 below.)
  10. On the Select Components screen, select the following components, then click **Next**:
    - Filtering Service
    - User Service
    - Usage MonitorOptionally, you may also select:
    - Network Agent
    - State Server
    - Multiplexer
    - DC Agent, Logon Agent, eDirectory Agent, or RADIUS Agent
  11. On the Policy Server Connection screen, enter the TRITON management server IP address and the Policy Server communication port (55806, by default), then click **Next**.
  12. On the Active Directory screen, indicate whether you are using Windows Active Directory to authenticate users in your network, then click **Next**.
  13. On the Computer Browser screen, indicate that the installer should attempt to start the service, then click **Next**.
  14. On the Integration Option screen, select **Integrated with another application or device**, then click **Next**.
  15. On the Select Integration screen, select **Websense Content Gateway**, then click **Next**.
  16. If you are installing Network Agent, on the Network Card Selection screen, select the NIC that Network Agent should use to communicate with other Web Security components, then click **Next**.
  17. On the Filtering Feedback screen, indicate whether you want Websense software to send feedback to Websense, Inc., then click **Next**.
  18. On the Directory Service Access screen, enter the domain, user name, and password of an account that is a member of the Domain Admins group on the domain controller, then click **Next**.

User Service, DC Agent, and Logon Agent use this information to query the domain controller for user and group information.
  19. On the Installation Directory screen, accept the default installation path, or click or select **Choose** to specify another path, and then click **Next**.

The installation path must be absolute (not relative). The default installation path is C:\Program Files\Websense\Web Security\.

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The installer creates this directory if it does not exist.



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### Important

The full installation path must use only ASCII characters. Do not use extended ASCII or double-byte characters.

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20. On the Pre-Installation Summary screen, verify the information shown, then click **Next**.

The summary shows the installation path and size, and the components to be installed.

21. A progress screen is displayed. Wait for the installation to complete.
22. On the Installation Complete screen, click **Next**.

## Installing Filtering Service on Linux

### Prepare the Linux server

To install Filtering Service on a supported Linux platform:

1. On the Linux machine that will host Filtering Service:
  - a. If SELinux is enabled, disable it or set it to permissive.
  - b. If a firewall is active, open a command shell and use the **service iptables stop** command to shut down the firewall before running the installation.

After installation, restart the firewall. In the firewall, be sure to open the ports used by Websense components installed on this machine. See [Web Security Default Ports](#) for more information about ports.



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### Important

Do **not** install Websense Network Agent on a machine running a firewall. Network Agent uses packet capturing that may conflict with the firewall software.

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- c. For v7.8.2 and later, if you receive an error during installation regarding the **/etc/hosts** file, use the following information to correct the problem. For v7.8.1, use this information to edit your **/etc/hosts** file prior to running the installer.

Make sure the **hosts** file (by default, in **/etc**) contains a hostname entry for the machine, in addition to the loopback address. (Note: you can check whether a hostname has been specified in the **hosts** file by using the **hostname -f** command.) To configure hostname, first use the following command:

```
hostname <host>
```

Also update the **HOSTNAME** entry in the **/etc/sysconfig/network** file:

```
HOSTNAME=<host>
```

---

In the `/etc/hosts` file, specify the IP address to associate with the hostname. This should be static, and not served by DHCP. Do not delete the second line in the file, the one that begins with 127.0.0.1 (the IPv4 loopback address). And do not delete the third line in the file, the one that begins `::1` (the IPv6 loopback address).

```
<IP address> <FQDN> <host>
127.0.0.1 localhost.localdomain localhost
::1 localhost6.localdomain6 localhost6
```

Here, `<FQDN>` is the fully-qualified domain name of this machine (i.e., `<host>.<subdomains>.<top-level domain>`)—for example, `myhost.example.com`—and `<host>` is the name assigned to the machine.



### Important

The hostname entry you create in the `hosts` file must be the first entry in the file.

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- d. Websense software supports only TCP/IP-based networks. If your network uses both TCP/IP- and non-IP-based network protocols, only users in the TCP/IP portion of the network are filtered.
2. Log on to the installation machine with full administrative privileges (typically, **root**).
3. Create a setup directory for the installer files. For example:

```
/root/Websense_setup
```
4. Download the Web Security Linux installer package from [mywebsense.com](http://mywebsense.com). The installer package is called **WebsenseWeb78xSetup\_Lnx.tar**.  
Place the installer archive in the setup directory you created.
5. In the setup directory, enter the following commands to uncompress and extract files:

```
gunzip WebsenseWeb78xSetup_Lnx.tar.gz
tar xvf WebsenseWeb78xSetup_Lnx.tar
```
6. Launch the installer using the following command (from the setup directory):

```
./install.sh -g
```

This launches a GUI-based installer and is available on English versions of Linux only. A text-only, command-line version can be launched by omitting the `-g` switch:

```
./install.sh
```

## Use the graphical installer to install Filtering Service

1. On the Introduction screen, click or select **Next**.
2. On the Subscription Agreement screen, choose to accept the terms of the agreement and then click **Next**.

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3. If the machine has multiple NICs, on the Multiple Network Interfaces screen, select the IP address of the NIC that Web Security components should use for communication, and then click **Next**. (Prior to 7.8.2, this screen appears after the Policy Server Connection screen in step 6 below.)
  4. On the Installation Type screen, select **Custom** and then click or select **Next**.
  5. On the Select Components screen, select the following components, then click or select **Next**:
    - Filtering Service
    - User Service  
Note that if User Service is installed on Linux, and use Windows Active Directory as your user directory, you must configure a WINS server to enable User Service to retrieve user and group information.
    - Usage MonitorOptionally, you may also select:
    - Network Agent
    - State Server
    - Multiplexer
    - Logon Agent, eDirectory Agent, or RADIUS Agent
  6. On the Policy Server Connection screen, enter the TRITON management server IP address and the Policy Server communication port (55806, by default).
  7. On the Integration Option screen, select **Integrated with another application or device**, then click or select **Next**.
  8. On the Select Integration screen, select **Websense Content Gateway**, then click or select **Next**.  
When you install Content Gateway (as described in [Step 9: Install Content Gateway, page 27](#)), you will be prompted for the Filtering Service IP address.
  9. If you are installing Network Agent, on the Network Card Selection screen, select the NIC that Network Agent should use to communicate with other Web Security components, then click or select **Next**.
  10. On the Filtering Feedback screen, indicate whether you want Websense software to send feedback to Websense, Inc., then click or select **Next**.
  11. On the Installation Directory screen, accept the default installation path, or click or select **Choose** to specify another path, and then click or select **Next**.  
The installation path must be absolute (not relative). The default installation path is: /opt/Websense/  
The installer creates this directory if it does not exist.



### Important

The full installation path must use only ASCII characters.  
Do not use extended ASCII or double-byte characters.

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The installer compares the installation's system requirements with the machine's resources.

- Insufficient disk space prompts an error message. The installer closes when you click or select **OK**.
  - Insufficient RAM prompts a warning message. The installation continues when you click or select **OK**. To ensure optimal performance, increase your memory to the recommended amount.
12. On the Pre-Installation Summary screen, verify the information shown, then click or select **Next**.

The summary shows the installation path and size, and the components to be installed.

13. An Installing progress screen is displayed. Wait for the installation to complete.



**Note**

Do **not** click the Cancel button (GUI) or press Ctrl-C (command-line) after the **Pre-Installation Summary**, as it is installing components. In this case, allow the installation to complete and then uninstall the unwanted components.

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14. On the Installation Complete screen, click or select **Done**. (In the graphical installer, be careful not to click Cancel.)

## Step 7: Install Log Server

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Log Server enables most reporting components, and must reside on a Windows machine.

1. On the Windows machine that will host Log Server:
  - a. Make sure there are no underscores in the machine's fully-qualified domain name (FQDN). The use of an underscore character in an FQDN is inconsistent with Internet Engineering Task Force (IETF) standards.



**Note**

Further details of this limitation can be found in the IETF specifications RFC-952 and RFC-1123.

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- b. Make sure all Microsoft updates have been applied. There should be no pending updates, especially any requiring a restart of the system.
    - c. Verify that there is sufficient disk space to download the installer, extract temporary installation files, and install the management components on the Windows installation drive (typically C).

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- d. Make sure that the appropriate version of .NET Framework is installed. You can use Server Manager to install the appropriate version of .NET Framework.
    - Windows Server 2008 R2: Use version 2.0 or higher.
    - Windows Server 2012 or 2012 R2 (v7.8.2 and later): Version 3.5 is required.

Note that .NET Framework 3.5 must be installed before adding any language packs to the operating system (as noted in the following article from Microsoft: <http://download.microsoft.com/download/D/1/0/D105DCF6-AC6C-439D-8046-50C5777F3E2F/microsoft-.net-3.5-deployment-considerations.docx>).
  - e. Synchronize the clocks on all machines (including appliances) where a Websense component will be installed. It is a good practice to point the machines to the same Network Time Protocol server.
  - f. Disable the antivirus software on the machine before installation. After installation, before restarting your antivirus software, see [Excluding Websense software from antivirus scans](#).
  - g. Disable any firewall on the machine before starting the Websense installer and then re-enable it after installation. Open ports as required by the Websense components you have installed, and make sure that required ports are not being used by other local services on the machine.

Some ports are used only during installation and can be closed once installation is complete.

See [Web Security Default Ports](#) for more information about ports.
  - h. Disable User Account Control (UAC) and Data Execution Prevention (DEP) settings, and make sure that no Software Restriction Policies will block the installation.
2. Log on to the machine with domain admin privileges.
  3. Download the TRITON Unified Installer (**WebsenseTRITON783Setup.exe**) from [mywebsense.com](http://mywebsense.com).
  4. Right-click **WebsenseTRITON783Setup.exe** and select **Run as administrator** to launch the installer. After a few seconds, a progress dialog box appears, as files are extracted.
  5. On the Welcome screen, click **Start**.
  6. On the Subscription Agreement screen, select **I accept this agreement**, then click **Next**.
  7. On the Installation Type screen, select **Custom** and then click **Next**.
  8. On the Custom Installation screen, click the **Install** link next to Web Security or RiskVision.
  9. If the machine has multiple NICs, on the Multiple Network Interfaces screen, select the IP address of the NIC that Web Security components should use for communication, and then click **Next**. (Prior to 7.8.2, this screen appears after the Policy Server Connection screen in step 11 below.)
  10. On the Select Components screen, select **Log Server**, then click **Next**:

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11. On the Policy Server Connection screen, enter the TRITON management server IP address and the Policy Server communication port (55806, by default), and then click **Next**.
  12. If the Log Server machine does not include a supported version of the Microsoft SQL Server Native Client and related tools, you are prompted to install the required components. Follow the on-screen prompts to complete this process.
  13. On the Database Information screen, enter the hostname or IP address of the machine on which a supported database engine is running. If you are using SQL Server clustering, enter the virtual IP address of the cluster. Also indicate how to connect to the database engine:

- Select **Trusted connection** to use a Windows account to connect to the database. Enter the user name and password of a trusted account with local administration privileges on the database machine. Note that the trusted account you specify here should be the same as that with which you logged onto this machine before starting the Websense installer.

If you use a trusted account, an additional configuration step is required after installation to ensure that reporting data can be displayed in the Web Security manager. See [Configuring Websense Apache services to use a trusted connection](#).

- Select **Database account** to use a SQL Server account to connect to the database. Enter the user name and password for a SQL Server account that has administrative access to the database. The SQL Server password cannot be blank, or begin or end with a hyphen (-).

Note that some fields may be pre-filled on this screen. Be sure to replace the pre-filled content with correct connection information for your deployment.

14. On the Log Database Location screen, accept the default location for the Log Database files, or select a different location, then click **Next**.

The default location is **C:\Program Files\Microsoft SQL Server** on the SQL Server machine.

Note that if you specify a custom directory, that directory must already exist. The installer cannot create a new directory on the SQL Server machine.

15. On the Optimize Log Database Size screen, select either or both of the following options, and then click **Next**.

- (Recommended) **Log Web page visits**: Enable this option to log one record (or a few records) with combined hits and bandwidth data for each requested website, rather than a record for each separate file included in the request. This results in fewer records and therefore smaller databases, allowing for potentially faster report generation and longer storage capacities.
- **Consolidate requests**: Enable this option to combine Internet requests that share the same value for all of the following elements, within a certain interval of time (1 minute, by default):
  - Domain name (for example: www.websense.com)
  - Category
  - Keyword
  - Action (for example: Category Blocked)

- 
- User/workstation

16. On the Installation Directory screen, accept the default installation path, or click or select **Choose** to specify another path, and then click **Next**.

The installation path must be absolute (not relative). The default installation path is C:\Program Files\WebSense\Web Security\.

The installer creates this directory if it does not exist.



### **Important**

The full installation path must use only ASCII characters. Do not use extended ASCII or double-byte characters.

---

17. On the Pre-Installation Summary screen, verify the information shown, then click **Next**.

The summary shows the installation path and size, and the components to be installed.

18. A progress screen is displayed. Wait for the installation to complete.

19. On the Installation Complete screen, click **Next**.

20. After installing Log Server, restart the follow services on the TRITON management server machine:

- Websense TRITON - Web Security
- Websense Web Reporting Tools

This step is required to ensure that reporting tools operate properly, and that any scheduled reports that you create are saved properly.

---

## Step 8: Install additional Web Security components

---

Depending on your network configuration and size, you may need to install multiple instances of several Web Security policy enforcement and user identification components.

- ◆ All components except Content Gateway can reside on Windows servers.
- ◆ Most components can reside on Linux servers.
- ◆ Most components can reside on Websense appliances as follows:
  - There can be a maximum of one **full policy source** appliance.  
When you set up a full policy source appliance, it includes a standalone instance of Policy Broker, plus Policy Server, Filtering Service, User Service, Usage Monitor, Network Agent, and Content Gateway. Multiplexer can also be enabled on this appliance.
  - There can be multiple **user directory and filtering** appliances.  
Each user directory and filtering appliance includes Policy Server, plus Filtering Service, User Service, Usage Monitor, Network Agent, and Content Gateway. Multiplexer can also be enabled on these appliances. During setup, you are prompted to connect to Policy Broker.
  - There can be multiple **filtering only** appliances.  
Each filtering only appliance includes Filtering Service, Network Agent, and Content Gateway. During setup, you are prompted to connect to a Policy Server instance.

### Using V-Series appliances

The instructions that follow assume that you have already set up your appliance hardware as directed on the in-box Quick Start poster for your appliance.

#### Gather the data

Gather the following information before running the firstboot configuration script. Some of this information may have been written down on the Quick Start poster during hardware setup.

Security mode	Web
Which Web Security subscription? (if prompted)	Web Security Gateway

<p>Hostname (example: appliance.domain.com)</p> <p>1 - 60 characters long. The first character must be a letter. Allowed: letters, numbers, dashes, or periods. The name cannot end with a period.</p> <p>If Content Gateway will be configured to perform Integrated Windows Authentication, the hostname cannot exceed 11 characters (excluding the domain name).</p> <p>For more information, see the section titled Integrated Windows Authentication in Content Gateway Manager Help.</p>	
<p>IP address for network interface C</p>	
<p>Subnet mask for network interface C</p>	
<p>Default gateway for network interface C (IP address) <i>Optional</i></p> <p>NOTE: If you do not provide access to the Internet for interface C, use the Web Security manager to configure P1 to download Master Database updates from Websense servers.</p> <p>See the Appliance Manager Help for information about configuring the interfaces. See the Web Security Help for information about configuring database downloads.</p>	
<p>Primary DNS server for network interface C (IP address)</p>	
<p>Secondary DNS server for network interface C (IP address) <i>Optional</i></p>	
<p>Tertiary DNS server for network interface C (IP address) <i>Optional</i></p>	
<p>Unified password (8 to 15 characters, at least 1 letter and 1 number)</p> <p>This password is for the following:</p> <ul style="list-style-type: none"> <li>• Appliance manager</li> <li>• Web Security manager</li> <li>• Content Gateway manager</li> </ul>	
<p>Send usage statistics?</p>	<p>Usage statistics from appliance modules can optionally be sent to Websense to help improve the accuracy of categorization.</p>

---

## Run the firstboot script

Run the initial command-line configuration script (**firstboot**) as follows.

1. Access the appliance through a USB keyboard and monitor, or a serial port connection.



### Note

To configure the appliance, connect through the serial port or the keyboard/video ports and complete the firstboot script. For serial port activation, use:

- ◆ 9600 baud rate
  - ◆ 8 data bits
  - ◆ no parity
- 

2. Accept the subscription agreement when prompted.
3. When asked if you want to begin, enter **yes** to launch the **firstboot** activation script.

To rerun the script manually, enter the following command:

```
firstboot
```

4. At the first prompt, select the a security mode **Web**, then select **Web Security Gateway**.
5. Follow the on-screen instructions to provide the information collected above.

After the activation script has been completed successfully, you can access Appliance manager by opening a supported browser and entering this URL in the address bar:

```
http://<IP-address-of-interface-C>:9447/appmng/
```

Use the Appliance manager to configure your appliance network interfaces and policy source mode (**user directory and filtering** or **filtering only**). See your appliance [Getting Started](#) guide for details.

## Installing components on Windows

1. Prepare the machine and download the installer as described in [Step 2: Prepare the management server](#), page 3.
2. Right-click **WebsenseTRITON78xSetup.exe** and select **Run as administrator** to launch the installer. After a few seconds, a progress dialog box appears, as files are extracted.
3. On the Welcome screen, click **Start**.
4. On the Subscription Agreement screen, select **I accept this agreement**, then click **Next**.
5. On the Installation Type screen, select **Custom**.
6. On the Custom Installation screen, click the **Install** link next to Web Security.

- 
7. Select the components that you want to install, keeping in mind that:
    - Policy Server must always be installed before or with its dependent components.

You **will** be prompted to provide the Policy Server IP address during installation of most components if Policy Server resides on a different machine.
    - Filtering Service must always be installed before or with dependent instances of Network Agent.

You will be prompted for the Filtering Service IP address during Network Agent installation if Filtering Service resides on another machine.
    - Each time you install a Filtering Service instance, select **Websense Content Gateway** as the integration product.

When you install Content Gateway (as described in [Step 9: Install Content Gateway, page 27](#)), you will be prompted for a Policy Server IP address and a Filtering Service IP address.
    - Unlike the primary or standalone Policy Broker, which must always be installed first, replica Policy Brokers may be added at any time.

You can configure which Policy Broker instance any Policy Server (and its dependent components) connects to after installation (go to the Settings > General > Policy Brokers page in the Web Security manager).
  8. Click **Next** to configure your installation.

Many of the screens that display depend on which components you have selected. If you are not clear about what information to provide, click **Help** in the installer for context and instructions.
  9. On the Installation Directory screen, accept the default installation path, or click or select **Choose** to specify another path, and then click **Next**.

The installation path must be absolute (not relative). The default installation path is C:\Program Files\WebSense\Web Security\.

The installer creates this directory if it does not exist.



#### **Important**

The full installation path must use only ASCII characters. Do not use extended ASCII or double-byte characters.

---

10. On the Pre-Installation Summary screen, verify the information shown, then click **Next**.

The summary shows the installation path and size, and the components to be installed.
11. A progress screen is displayed. Wait for the installation to complete.
12. On the Installation Complete screen, click **Next**.

---

## Installing components on Linux

1. Prepare the machine and download and launch the installer as described in [Prepare the Linux server, page 15](#).
2. On the Introduction screen, click or select **Next**.
3. On the Subscription Agreement screen, choose to accept the terms of the agreement and then click **Next**.
4. On the Installation Type screen, select **Custom** and then click or select **Next**.
5. On the Select Components screen, select the components that you want to install:
  - Policy Server must always be installed before or with its dependent components.

You **will** be prompted to provide the Policy Server IP address during installation of most components if Policy Server resides on a different machine.
  - Filtering Service must always be installed before or with dependent instances of Network Agent.

You will be prompted for the Filtering Service IP address during Network Agent installation if Filtering Service resides on another machine.
  - Each time you install a Filtering Service instance, select **Websense Content Gateway** as the integration product.

When you install Content Gateway (as described in [Step 9: Install Content Gateway, page 27](#)), you will be prompted for a Policy Server IP address and a Filtering Service IP address.
  - Unlike the primary or standalone Policy Broker, which must always be installed first, replica Policy Brokers may be added at any time.

You can configure which Policy Broker instance any Policy Server (and its dependent components) connects to after installation (go to the Settings > General > Policy Brokers page in the Web Security manager).
6. Click or select **Next** to configure your installation.

Many of the screens that display depend on which components you have selected. If you are not clear about what information to provide, click or select **Help** in the installer for context and instructions.
7. On the Installation Directory screen, accept the default installation path, or click or select **Choose** to specify another path, and then click or select **Next**.

The installation path must be absolute (not relative). The default installation path is: `/opt/Websense/`  
The installer creates this directory if it does not exist.



### Important

The full installation path must use only ASCII characters. Do not use extended ASCII or double-byte characters.

---

---

The installer compares the installation's system requirements with the machine's resources.

- Insufficient disk space prompts an error message. The installer closes when you click or select **OK**.
  - Insufficient RAM prompts a warning message. The installation continues when you click or select **OK**. To ensure optimal performance, increase your memory to the recommended amount.
8. On the Pre-Installation Summary screen, verify the information shown, then click or select **Next**.

The summary shows the installation path and size, and the components to be installed.

9. An Installing progress screen is displayed. Wait for the installation to complete.



#### Note

Do **not** click the Cancel button (GUI) or press Ctrl-C (command-line) after the **Pre-Installation Summary**, as it is installing components. In this case, allow the installation to complete and then uninstall the unwanted components.

---

10. On the Installation Complete screen, click or select **Done**. (In the graphical installer, be careful not to click Cancel.)

## Step 9: Install Content Gateway

---

If you are not using Websense appliances to host policy enforcement components, complete these steps to install Websense Content Gateway (Content Gateway) on one or more Linux servers.

### Prepare for installation

1. Make sure that the server you intend to use meets or exceeds the requirements listed in the “System requirements for Websense Content Gateway” section of [Preparing to install Content Gateway](#).
2. Configure a hostname for the Content Gateway machine and also configure DNS name resolution. Complete these steps on the machine on which you will install Content Gateway.
  - a. Configure a hostname for the machine that is 15 characters or less:

```
hostname <hostname>
```
  - b. Update the HOSTNAME entry in the `/etc/sysconfig/network` file to include the new hostname assigned in the previous step:

```
HOSTNAME=<hostname>
```
  - c. Specify the IP address to associate with the hostname in the `/etc/hosts` file. This should be static and not served by DHCP.

---

The proxy uses this IP address in features such as transparent authentication and hierarchical caching. This must be the first line in the file.

Do not delete the second and third lines (the ones that begin with “127.0.0.1” and “::1”, respectively).

```
xxx.xxx.xxx.xxx <FQDN> <hostname>
127.0.0.1 localhost.localdomain localhost
::1 localhost6.localdomain6 localhost6
```

<FQDN> is the fully-qualified domain name of this machine (for example: myhost.example.com). <hostname> is the same name specified in Step a.

Do **not** reverse the order of the FQDN and hostname.

d. Configure DNS in the `/etc/resolv.conf` file.

```
search <subdomain1>.<top-level domain>
<subdomain2>.<top-level domain> <subdomain3>.<top-
level domain>
nameserver xxx.xxx.xxx.xxx
nameserver xxx.xxx.xxx.xxx
```

This example demonstrates that more than one domain can be listed on the search line. Listing several domains may have an impact on performance, because each domain is searched until a match is found. Also, this example shows a primary and secondary nameserver being specified.

e. Gather this information:

- Default gateway (or other routing information)
- List of your company’s DNS servers and their IP addresses
- DNS domains to search, such as internal domain names. Include any legacy domain names that your company might have.
- List of additional firewall ports to open beyond SSH (22) and the proxy ports (8080-8090).

3. For Websense Content Gateway to operate as a caching proxy, it must have access to at least one raw disk. Otherwise, Content Gateway will function as a proxy only.

To create a raw disk for the proxy cache when all disks have a mounted file system:



#### Note

This procedure is necessary only if you want to use a disk already mounted to a file system as a cache disk for Content Gateway. Perform this procedure **before** installing Content Gateway.



#### Warning

Do not use an LVM (Logical Volume Manager) volume as a cache disk.

---



### Warning

The Content Gateway installer will irretrievably clear the contents of cache disks.

---

- a. Enter the following command to examine which file systems are mounted on the disk you want to use for the proxy cache:

```
df -k
```

- b. Open the file `/etc/fstab` and comment out or delete the file system entries for the disk.
- c. Save and close the file.
- d. Enter the following command for each file system you want to unmount:

```
umount <file_system>
```

When the Content Gateway installer prompts you for a cache disk, select the raw disk you created.



### Note

It is possible to add cache disks after Content Gateway is installed. For instructions, see the Content Gateway Manager Help.

---

4. If you plan to deploy multiple, clustered instances of Content Gateway:

- Find the name of the network interface you want to use for cluster communication. This must be a dedicated interface.
- Find or define a multicast group IP address.

If a multicast group IP address has not already been defined, enter the following at a command line to define the multicast route:

```
route add <multicast.group address>/32 dev  
<interface_name>
```

Here, `<interface_name>` is the name of the interface used for cluster communication. For example:

```
route add 224.0.1.37/32 dev eth1
```

5. It is recommended that the Content Gateway host machine have Internet connectivity before starting the installation procedure. The software will install without Internet connectivity, but analytic database updates cannot be performed until Internet connectivity is available.
6. Download the **WebsenseCG78Setup\_Lnx.tar.gz** installer tar archive from [mywebsense.com](http://mywebsense.com) to a temporary directory on the machine that will host Content Gateway.

To unpack the tar archive, use the command:

```
tar -xvzf WebsenseCG78Setup_Lnx.tar.gz
```

- 
7. Consider the following security issues prior to installing Content Gateway:
    - Physical access to the system can be a security risk. Unauthorized users could gain access to the file system, and under more extreme circumstances, examine traffic passing through Content Gateway. It is strongly recommended that the Content Gateway server be locked in an IT closet and that a BIOS password be enabled.
    - Ensure that root permissions are restricted to a select few persons. This important restriction helps preclude unauthorized access to the Websense Content Gateway file system.
    - For a list of default ports, see [Content Gateway ports](#). They must be open to support the full set of Websense Web Security Gateway features.

**Note**

If you customized any ports that Websense software uses for communication, replace the default port with the custom port you implemented.

---

Restrict inbound traffic to as few other ports as possible on the Websense Content Gateway server. In addition, if your subscription does not include certain features, you can restrict inbound traffic to the unneeded ports. For example, if your subscription does not include Websense Data Security, you may choose to restrict inbound traffic to those ports related to Websense Data Security.

- If your server is running the Linux IPTables firewall, you must configure the rules in a way that enables Content Gateway to operate effectively. See the [IPTables for Content Gateway](#) article in the [Websense Technical Library](#).
8. Content Gateway can be used as an explicit or transparent proxy. For setup considerations for each option, see the “Explicit or Transparent Proxy” section of [Preparing to install Content Gateway](#).

## Install Content Gateway

1. Disable any currently running firewall on this machine for the duration of Content Gateway installation. Bring the firewall back up after installation is complete, opening ports used by Content Gateway.

**Important**

If SELinux is enabled, set it to permissive or disable it before installing Content Gateway. Do not install or run Content Gateway with SELinux enabled.

---

2. Make sure you have root permissions:

```
su root
```

- 
3. In the directory where you unpacked the tar archive, begin the installation, and respond to the prompts to configure the application.

```
./wcg_install.sh
```

The installer installs Content Gateway in /opt/WCG. It is installed as **root**.



#### Note

Up to the configuration summary, you can quit the installer by pressing Ctrl-C. If you choose to continue the installation past the configuration summary and you want to quit, do **not** use Ctrl-C. Instead, allow the installation to complete and then uninstall it.

If you want to change your answer to any of the installer prompts, you will be given a chance to start over at the first prompt once you reach the configuration summary; you do not have to quit the installer.

---

4. If your server does not meet the minimum hardware requirements or is missing required operating system packages, you will receive error or warning messages. For example:

```
Error: Websense Content Gateway v7.8.0 on x86_64 requires
several packages that are not present on your system.
```

```
Please install the following packages: <list of packages>
```

```
If you are connected to a yum repository you can install
these packages with the following command:
```

```
yum install <list of packages>
```

```
See the Websense Technical Library (www.websense.com/
library) for information about the software requirements
for x86_64 installation.
```

Install the missing packages and again start the Content Gateway installer.

Here is an example of a system resource warning:

```
Warning: Websense Content Gateway requires at least 6
gigabytes of RAM.
```

```
Do you wish to continue [y/n]?
```

Enter **n** to end the installation and return to the system prompt.

Enter **y** to continue the installation. If you choose to run Content Gateway after receiving this warning, performance may be affected.

5. Read the subscription agreement. At the prompt, enter **y** to continue installation or **n** to cancel installation.

```
Do you accept the above agreement [y/n]? y
```

6. Enter and confirm a password for the Content Gateway Manager administrator account:

```
Enter the administrator password for the Websense Content
Gateway management interface.
```

```
Username: admin
```

---

Password:> *(note: cursor will not move as you type)*

Confirm password:>

This account enables you to log on to the management interface for Content Gateway (the Content Gateway manager). The default username is **admin**.

To create a strong password (recommended), use 8 or more characters, with at least 1 each of the following: capital letter, lower case letter, number, special character.



### Important

The password length must be 16 characters or less. Also, it cannot contain the following characters:

- space
- \$ (dollar symbol)
- : (colon)
- ` (backtick; typically shares a key with tilde, ~)
- \ (backslash)
- “ (double-quote)



### Note

As you type a password, it may seem that nothing is happening—the cursor will not move nor will masked characters be shown—but the characters are being accepted. After typing a password, press **Enter**. Then repeat to confirm it.

- 
7. Enter an email address where Content Gateway can send alarm messages:

Websense Content Gateway requires an email address for alarm notification.

Enter an email address using @ notation: [] >

Be sure to use @ notation (for example, user@example.com). Do not enter more than 64 characters for this address.

8. Enter the IP address for Policy Server:

Enter the Policy Server IP address (leave blank if integrating with Data Security only): [] >

Use dot notation (i.e., xxx.xxx.xxx.xxx). The address must be IPv4.

9. Enter the IP address for Filtering Service:

Enter the Filtering Service IP address: [<Policy Server address>] >

The default is the same address as Policy Server.

---

10. Review default Content Gateway ports:

Websense Content Gateway uses 8 ports on your server:

Port Assignments:

-----

'1'	Websense Content Gateway Proxy Port	8080
'2'	Web Interface port	8081
'3'	Auto config port	8083
'4'	Process manager port	8084
'5'	Logging server port	8085
'6'	Clustering port	8086
'7'	Reliable service port	8087
'8'	Multicast port	8088

Enter the port assignment you would like to change:

'1-8' - specific port changes  
'X' - no change  
'H' - help  
[X] >

Change a port assignment if it will conflict with another application or process on the machine. Otherwise, leave the default assignments in place.

If you do not want to use these ports for Content Gateway, or if the installation program indicates that a port conflict exists, make any necessary changes. Any new port numbers you assign must be between 1025 and 65535, inclusive.

11. For clustering, at least two network interfaces are required. If your machine has only one, the following prompt appears:

Websense Content Gateway requires at least 2 interfaces to support clustering. Only one active network interface is detected on this system.

Press **Enter** to continue installation and skip to Step 13.

12. If two or more network interfaces are found on this machine, you are asked whether this instance of Content Gateway should be part of a cluster:

Websense Content Gateway Clustering Information

-----

'1' - Select '1' to configure Websense Content Gateway for management clustering. The nodes in the cluster will share configuration/management information automatically.  
'2' - Select '2' to operate this Websense Content Gateway as a single node.

Enter the cluster type for this Websense Content Gateway installation:

[2] >

If you do not want this instance of Content Gateway to be part of a cluster, enter 2.

---

If you select 1, provide information about the cluster:

Enter the name of this Websense Content Gateway cluster.

><cluster\_name>

Note: All members of a cluster must use the same cluster name.

Enter a network interface for cluster communication.

Available interfaces:

<interface, e.g., eth0>

<interface, e.g., eth1>

Enter the cluster network interface:

>

Enter a multicast group address for cluster <cluster\_name>.

Address must be between 224.0.1.27 - 224.0.1.254:

[<default IP address>] >

13. For Content Gateway to act as a web cache, a raw disk must be present on this machine. If no raw disk is detected, the following prompt appears:

No disks are detected for cache.

Websense Content Gateway will operate in PROXY\_ONLY mode.

Content Gateway will operate as a proxy only and will not cache web pages. Press Enter to continue the installation and skip to Step 15.

14. If a raw disk is detected, you can enable the web cache feature of Content Gateway:



#### Note

If you choose to not enable raw disk cache now, cache disks may be added after Content Gateway has been installed. For instructions, see Content Gateway Manager Help.

---

Would you like to enable raw disk cache [y/n]? **y**

- a. Select available disks from the list. Selected disks become dedicated cache disks and cannot be used for any other purpose. Cache disks must be raw. Aggregate disk cache size should not exceed 147 GB.

Select available disk resources to use for the cache.

Remember that space used for the cache cannot be used for any other purpose.

Here are the available drives

(1) /dev/sdb 146778685440 0x0

Note: The above drive is only an example.



#### Warning

Although it might be listed as available, do **not** use an LVM (Logical Volume Manager) volume as a cache disk.

---

- 
- b. Indicate if you want to add or remove disks individually or as a group.

Choose one of the following options:

```
'A' - Add disk(s) to cache
'R' - Remove disk(s) from cache
'S' - Add all available disks to cache
'U' - Remove all disks from cache
'X' - Done with selection, continue Websense
      Content Gateway installation.
```

Option: > A

```
[ ] (1) /dev/sdb 146778685440 0x0
```

- c. Specify which disk or disks to use for the cache.

Enter number to add item, press 'F' when finished:

```
[F] >1
Item '1' is selected
[F] >
```

- d. Your selections are confirmed. Note the “x” before the name of the disk.

Here is the current selection

```
[X] (1) /dev/sdb 146778685440 0x0
```

- e. Continue based on your choice in Step b, pressing X when you have finished configuring cache disks.

Choose one of the following options:

```
'A' - Add disk(s) to cache
'R' - Remove disk(s) from cache
'S' - Add all available disks to cache
'U' - Remove all disks from cache
'X' - Done with selection, continue Websense
      Content Gateway installation.
```

Option: >X

15. As a way of improving the Content Gateway product, you can elect to send Websense, Inc., information about usage statistics, scanned content, and activated product features. **Important:** Individual users are never identified.

Enter y or n.

16. A configuration summary appears, showing your answers to the installer prompts (note: summary below is an example):

Configuration Summary

```
-----
Websense Content Gateway Install Directory : /opt/WCG
Admin Username for Content Gateway Manager: admin
Alarm Email Address                       : <email address>
Policy Server IP Address                   : <IP address>
Filtering Service IP Address               : <IP address>
Websense Content Gateway Cluster Type     : NO_CLUSTER
```

---

```
 Websense Content Gateway Cache Type      : LRAW_DISK
 Cache Disk                               : /dev/sdb
 Total Cache Partition Used               : 1
```

```
*****
*   W A R N I N G   *
*****
```

CACHE DISKS LISTED ABOVE WILL BE CLEARED DURING INSTALLATION!! CONTENTS OF THESE DISKS WILL BE COMPLETELY LOST WITH NO CHANCE OF RETRIEVAL.

Installer CANNOT detect all potential disk mirroring systems. Please make sure the cache disks listed above are not in use as mirrors of active file systems and do not contain any useful data.

Do you want to continue installation with this configuration [y/n] ?

If you want to make changes, enter **n** to restart the installation process at the first prompt. To continue and install Content Gateway configured as shown, enter **y**.



### Important

If you enter **y** to proceed but you decide you want to cancel the installation, do not attempt to quit the installer by pressing Ctrl-C. Allow the installation to complete. Then uninstall it.

---

17. Wait for the installation to complete.

Note the location of the certificate required for Content Gateway Manager: **/root/WCG/content\_gateway\_ca.cer**. See the Getting Started section of the Content Gateway Manager Help for information on importing this certificate.



### Note

The subscription key is shared automatically with Content Gateway when it is entered in the Web Security manager.

If you receive an email from Content Gateway (to the address you specified during installation) with “WCG license download failed” in the subject line, this alert does not mean a problem occurred with the installation. The alert indicates that your deployment may require you to manually enter the subscription key in the Content Gateway manager.

---

18. When installation is complete, reboot the Content Gateway server.

19. When the reboot is complete, check Content Gateway status with:

```
/opt/WCG/WCGAdmin status
```

All services should be running. These include Content Cop, Websense Content Gateway, Content Gateway Manager, and Analytics Server.

---

## Step 10: Initial Configuration

---



### Tip

All Websense tools and utilities installed on Windows Server platforms (such as wsbackup.exe and websenseping.exe), as well as text editors used to modify Websense configuration files (such as websense.ini), **must** be run as the local administrator. Otherwise, you may be prevented from running the tool or the changes you make may not be implemented.

---

## Enter your subscription key

After installation is complete, log on to the TRITON Unified Security Center (TRITON console) and enter your subscription key. Entering the key:

- ◆ Allows your product to be verified
- ◆ Initiates database downloads that activate your solution
- ◆ Enables several management console features.

To get started:

1. If administrators use Internet Explorer to access the TRITON Unified Security Center (management console), make sure that Enhanced Security Configuration (IE ESC) is disabled on their machines.
2. Use a supported browser to launch the TRITON console and log on using the default account (**admin**) and the password created during installation.

The TRITON console URL is:

```
https://<IP_address>:9443/triton/
```

Here, *<IP\_address>* is the IP address of the TRITON management server.

3. Enter your subscription key.  
At first startup, the Web Security manager prompts for a subscription key in the Initial Setup Checklist. The key is automatically applied to Content Gateway, as well.
4. If you did not provide SMTP server details during installation, use the **TRITON Settings > Notifications** page to specify the SMTP server used to enable administrator password reset functionality and account change notifications.
5. Once the Web Security manager shows that your key has been verified, log off of the TRITON console and log back on to see all of your Web Security Gateway features.

## Set Up Content Gateway

- ◆ Log onto the Content Gateway manager and run a basic test ([Getting Started](#))

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- ◆ If there are multiple instances of Content Gateway, consider configuring a [managed cluster](#).
  - ◆ Configure protocols to proxy in addition to HTTP: [HTTP \(SSL Manager\)](#), [FTP](#)
  - ◆ Complete your explicit or transparent proxy deployment
    - [Content Gateway explicit and transparent proxy deployments](#)
    - In Content Gateway Manager Help: [Explicit proxy](#), [Transparent proxy](#)
  - ◆ If proxy user authentication will be used, [configure user authentication](#). Alternatively, configure Web Security user identification.
  - ◆ Configure the real-time [Scanning Options](#) in the Web Security manager.
  - ◆ If you enabled content caching during installation, [configure content caching](#).

After the base configuration has been tested, consider these additional activities:

- ◆ If you are using HTTPS (SSL Manager), use the Web Security manager to configure categories, clients, and destination servers for [SSL decryption bypass](#)
- ◆ Create Content Gateway [filtering rules](#) to:
  - Deny or allow URL requests
  - Insert custom headers
  - Allow specified applications, or requests to specified Web sites to bypass authentication
  - Keep or strip header information from client requests
  - Prevent specified applications from transiting the proxy
- ◆ In explicit proxy deployments, [customize the PAC file](#)
- ◆ In transparent proxy deployments, use [ARM dynamic and static bypass](#), or use router ACL lists to bypass Content Gateway (see your router documentation).