ArcGIS GeoEvent Server 12.1 (Linux) Installation Guide

THE SCIENCE OF WHERE

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Introduction

Welcome to the ArcGIS GeoEvent Server (Linux) installation guide

ArcGIS GeoEvent Server enables real-time event-based data streams to be integrated as data sources in your enterprise GIS. Event data can be filtered, processed, and sent to multiple destinations, allowing you to connect with virtually any type of streaming data and automatically alert personnel when specified conditions occur, all in real-time.

Use this guide to install and configure ArcGIS GeoEvent Server:

Get ArcGIS GeoEvent Server up and running

Below are the primary steps required to get ArcGIS GeoEvent Server up and running.

Note:
If you are upgrading from an earlier version to ArcGIS GeoEvent Server 12.1, follow the steps in the Upgrade GeoEvent Server topic.

1. Verify that your site meets the system requirements.
2. Modify your firewall to allow communication on the ports used by GeoEvent Server.
3. Install GeoEvent Server.
4. Sign in to GeoEvent Manager.
5. Learn about user roles in GeoEvent Manager.
6. Get started with GeoEvent Server.

Verify system requirements

ArcGIS GeoEvent Server system requirements

The system, hardware, and software requirements to run ArcGIS GeoEvent Server are described below.

Operating system requirements

ArcGIS GeoEvent Server has the same operating system requirements as the ArcGIS Server software component in ArcGIS Enterprise.

Learn more about ArcGIS Server 12.1 system requirements

Hardware requirements

The ingestion and analysis of real-time data is machine resource intensive. However, allocation and consumption of resources is highly variable depending on the configuration. The recommendations below are guidelines that should be carefully reviewed to ensure a successful deployment of ArcGIS GeoEvent Server.

- The production systems must have at least 16 GB of the latest generation of RAM (such as DDR4) to optimize event record throughput and processing. Use cases that could require additional RAM include the following:
  - Using a large volume of geofences
  - Using highly complex geofences (polygons with thousands of vertices)
  - Monitoring for continuous incidents
- ArcGIS GeoEvent Server should be deployed on machines with at least four physical cores and eight logical or virtual processors. Production systems require eight physical cores to achieve adequate performance.
- A higher network bandwidth connection (such as 1 GB or 10 GB) that supports higher input or output operations per second (IOPS) is recommended so that you reduce latency when receiving and sending event data.

Many production systems may require additional CPU cores and/or RAM.

GeoEvent Server requires a minimum disk space identical to and in addition to the 10 GB recommended by ArcGIS Server. Additional disk space for each configured input and/or output is required as discussed below. The amount of disk space required varies depending on the number of input and output connectors being used.

An instance of GeoEvent Server configured with a single input or output (including stream services) creates a single Kafka topic in the ArcGIS GeoEvent Gateway, and the following apply:

- Each topic has, by default, three partitions.
- Each topic partition, by default, can grow to 400 MB.
- Each input or output, therefore, would require a maximum of 1.2 GB of disk space.

The additional disk space for each input and output is necessary to account for the on-disk event queues used by the ArcGIS GeoEvent Gateway.

Learn more about deploying GeoEvent Server on virtualized hardware
Learn more about ArcGIS Server licensing roles
Learn more about ArcGIS Enterprise Builder system requirements
Learn more about Kafka on-disk storage
Learn more about ZooKeeper on-disk storage
Learn more about hanging the location of Kafka and ZooKeeper data files

Software requirements

ArcGIS Server must be installed and configured on the machine before installing ArcGIS GeoEvent Server.

Obtaining an authorization file

Each machine with an installation of ArcGIS GeoEvent Server requires an authorization file. There are several ways to register GeoEvent Server. You can visit My Esri to obtain an authorization file (by email, fax, phone, or mail) before proceeding with the installation. You can also register GeoEvent Server using the ArcGIS Server **Software Authorization Wizard** window, which appears after the setup installation completes (this is the recommended method).

Registration requires registration numbers similar in format to ABC123456789. Visit My Esri for more information.

Adjust firewall

Ports used by ArcGIS GeoEvent Server

ArcGIS GeoEvent Server uses specific ports to communicate with machines on the internet and intranet. The ports that you may need to open on your firewall are described below.

HTTP port 6180

GeoEvent Server communicates through port 6180. You must ensure that your firewall allows HTTP communication through this port. This port is used by GeoEvent Server REST endpoints.

HTTPS port 6143

When HTTPS is enabled, GeoEvent Server uses port 6143 by default. This port is used by GeoEvent Manager and GeoEvent Server administrator REST endpoints.

Ports 4181, 4182, and 4190

Ports 4181, 4182, and 4190 need to be opened to support the GeoEvent Server Gateway for the ZooKeeper service.

Ports 9191, 9192, 9193, and 9194

Ports 9191, 9192, 9193, and 9194 need to be opened to support the GeoEvent Server Gateway for the Kafka service.

Ports 9220 and 9320

The spatiotemporal big data store, available with ArcGIS Data Store, communicates through ports 9220 (HTTP) and 9320 (TCP). If you are writing data to the spatiotemporal big data store using GeoEvent Server, you will need to open these ports.

Internally used ports (5565, 5575)

Port 5565 is the default port used by the Receive Text from a TCP Socket Input Connector. This port will need to be opened if you are using this connector with the default port setting.

Port 5575 is the default port used by the Push Text to an External TCP Socket Output Connector. This port will need to be opened if you are using this connector with the default port setting.

Install

Install ArcGIS GeoEvent Server

The steps below will guide you through the installation process for ArcGIS GeoEvent Server.

Installation prerequisites include the following:

- Obtain an authorization file for the machine on which you will install GeoEvent Server.
- Verify that your site meets the system requirements.
- Modify your firewall to allow communication on the ports used by GeoEvent Server.
- Log in as the user that installed ArcGIS Server.

1. If you are using the installation media, the content is already located in `<media_drive>:/GeoEvent/`, therefore you can skip this step and proceed to step 2 below.
   If you downloaded GeoEvent Server package *.tar.gz file, unpack the file:

   ```
   For example: $ tar -zxvf ArcGIS_GeoEvent_*.tar.gz
   ```

2. (Optional) If you are going to use the GeoEvent Simulator, and since it only runs on Windows, you will need to copy the GeoEventSimulator.exe file to a Windows machine. The file is located in one of the following locations:
   - If you are using the installation media: `<media_drive>:/GeoEvent/Support/`.
   - If you downloaded the English package file: `./ArcGISGeoEvent/Support/`.
   - If you downloaded a non-English package file: `./ArcGISGeoEvent_<LANGUAGE>/Support/`

3. Run `Setup.sh` to install GeoEvent Server:

   ```
   $ ./ArcGISGeoEvent/Setup.sh
   For non-English setups: $ ./ArcGISGeoEvent_<LANGUAGE>/Setup.sh
   ```

   Note:
   If upgrading from a 10.x version to GeoEvent Server 12.1, your existing GeoEvent Server site configuration will not be automatically upgraded during the installation. You will need to manually import your configuration file after successful completion of the upgrade. To acknowledge that you understand your current configuration will not be automatically upgraded as part of the installation and that you need to manually import it after successful installation, you must specify `/ubc yes` after `./Setup.sh`, as illustrated below. For more information on exporting and importing your site configuration, see Backup and restore your GeoEvent Server site configuration.

   ```
   $ ./ArcGISGeoEvent/Setup.sh /ubc yes
   ```

4. License GeoEvent Server by running the ArcGIS Server Software Authorization Tool:

   ```
   $ <arcgis-server-install-location>/tools/authorizeSoftware
   For example: $ ~/arcgis/server/tools/authorizeSoftware
   ```

5. Configure GeoEvent Server to be started with the operating system by following the appropriate instructions below:

Note:

When sudo is referenced, you can instead log in as root to run the command:

```
$ sudo su root
OR
$ su root
OR
$ su
```

- **RHEL 7.x and above:**

a. Install the Linux Daemon:

```
$ sudo cp <arcgis-server-install-location>/GeoEvent/gateway/etc/service/
geoeventGateway.service /etc/systemd/system
For example: $ sudo cp ~/arcgis/server/GeoEvent/gateway/etc/service/
geoeventGateway.service /etc/systemd/system

$ sudo cp <arcgis-server-install-location>/GeoEvent/etc/service/geoevent.service
/etc/systemd/system
For example: $ sudo cp ~/arcgis/server/GeoEvent/etc/service/geoevent.service /etc/
systemd/system
```

b. Automatically start the GeoEvent Server and Gateway daemons when the machine is rebooted:

```
$ sudo systemctl enable geoeventGateway.service
```

```
$ sudo systemctl enable geoevent.service
```

c. Start the GeoEvent Server and Gateway daemons:

```
$ sudo systemctl start geoeventGateway.service
```

```
$ sudo systemctl start geoevent.service
```

d. (Optional) Stop the GeoEvent Server and Gateway daemons:

```
$ sudo systemctl stop geoeventGateway.service
```

```
$ sudo systemctl stop geoevent.service
```

e. (Optional) Check the GeoEvent Server and Gateway daemons status:

```
$ systemctl status geoeventGateway.service
```

```
$ systemctl status geoevent.service
```

- **RHEL 6.x:**

a. Install the Linux Daemon:

```
$ cd <arcgis-server-install-location>/GeoEvent/bin
For example: $ cd ~/arcgis/server/GeoEvent/bin

$ sudo ln -s <arcgis-server-install-location>/GeoEvent/gateway/bin/
ArcGISGeoEventGateway-service /etc/init.d/
For example: $ sudo ln -s ~/arcgis/server/GeoEvent/gateway/bin/
ArcGISGeoEventGateway-service /etc/init.d/

$ sudo ln -s <arcgis-server-install-location>/GeoEvent/bin/ArcGISGeoEvent-service
/etc/init.d/
For example: $ sudo ln -s ~/arcgis/server/GeoEvent/bin/ArcGISGeoEvent-service /etc/
init.d/

$ sudo chkconfig --add ArcGISGeoEventGateway-service

$ sudo chkconfig --add ArcGISGeoEvent-service
```

b. Automatically start the GeoEvent Server and Gateway daemons when the machine is rebooted:

```
$ sudo chkconfig ArcGISGeoEventGateway-service on
```

```
$ sudo chkconfig ArcGISGeoEvent-service on
```

c. Start the GeoEvent Server and Gateway daemons:

```
$ service ArcGISGeoEventGateway-service start
```

```
$ service ArcGISGeoEvent-service start
```

d. (Optional) Stop the GeoEvent Server and Gateway daemons:

```
$ service ArcGISGeoEventGateway-service stop
```

```
$ service ArcGISGeoEvent-service stop
```

e. (Optional) Check the GeoEvent Server and Gateway daemons status:

```
$ service ArcGISGeoEventGateway-service status
```

```
$ service ArcGISGeoEvent-service status
```

- **SUSE**

a. Install the Linux Daemon:

```
$ cd <arcgis-server-install-location>/GeoEvent/bin
For example: $ cd ~/arcgis/server/GeoEvent/bin

Switch to root user:
$ su

$ ln -s <arcgis-server-install-location>/GeoEvent/gateway/bin/
ArcGISGeoEventGateway-service /etc/init.d/
For example: $ ln -s ~/arcgis/server/GeoEvent/gateway/bin/
ArcGISGeoEventGateway-service /etc/init.d/

$ ln -s <arcgis-server-install-location>/GeoEvent/bin/ArcGISGeoEvent-service /etc/
init.d/
For example: $ ln -s ~/arcgis/server/GeoEvent/bin/ArcGISGeoEvent-service /etc/
init.d/

$ insserv ArcGISGeoEventGateway-service
$ chkconfig ArcGISGeoEventGateway-service

$ insserv ArcGISGeoEvent-service
$ chkconfig ArcGISGeoEvent-service
```

b. Automatically start the GeoEvent Server and Gateway daemons when the machine is rebooted:

```
Still as root user:
$ chkconfig ArcGISGeoEventGateway-service on
End the root user session
```

```
Still as root user:
$ chkconfig ArcGISGeoEvent-service on
End the root user session
```

c. Start the GeoEvent Server and Gateway daemons:

```
$ /etc/init.d/ArcGISGeoEventGateway-service start
```

```
$ /etc/init.d/ArcGISGeoEvent-service start
```

d. (Optional) Stop the GeoEvent Server and Gateway daemons:

```
$ /etc/init.d/ArcGISGeoEventGateway-service stop
```

```
$ /etc/init.d/ArcGISGeoEvent-service stop
```

e. (Optional) Check the GeoEvent Server and Gateway daemons status:

```
$ /etc/init.d/ArcGISGeoEventGateway-service status
```

```
$ /etc/init.d/ArcGISGeoEvent-service status
```

- **Ubuntu Server 16.04.x LTS and above:**

a. Install the Linux Daemon:

```
$ sudo cp <arcgis-server-install-location>/GeoEvent/gateway/etc/service/
geoeventGateway.service /etc/systemd/system
For example: $ sudo cp ~/arcgis/server/GeoEvent/gateway/etc/service/
geoeventGateway.service /etc/systemd/system

$ sudo cp <arcgis-server-install-location>/GeoEvent/etc/service/geoevent.service
/etc/systemd/system
For example: $ sudo cp ~/arcgis/server/GeoEvent/etc/service/geoevent.service /etc/
systemd/system
```

b. Automatically start the GeoEvent Server and Gateway daemons when the machine is rebooted:

```
$ sudo systemctl enable geoeventGateway.service
```

```
$ sudo systemctl enable geoevent.service
```

c. Start the GeoEvent Server and Gateway daemons:

```
$ sudo systemctl start geoeventGateway.service
```

```
$ sudo systemctl start geoevent.service
```

d. (Optional) Stop the GeoEvent Server and Gateway daemons:

```
$ sudo systemctl stop geoeventGateway.service
```

```
$ sudo systemctl stop geoevent.service
```

e. (Optional) Check the GeoEvent Server and Gateway daemons status:

```
$ systemctl status geoeventGateway.service
```

```
$ systemctl status geoevent.service
```

- **Ubuntu Server 12.04.x LTS:**

a. Install the Linux Daemon:

```
$ cd <arcgis-server-install-location>/GeoEvent/bin
For example: $ cd /arcgis/server/GeoEvent/bin

$ sudo ln -s <arcgis-server-install-location>/GeoEvent/gateway/etc/service/
ArcGISGeoEventGateway-service /etc/init.d/
For example: $ sudo ln -s /arcgis/server/GeoEvent/gateway/etc/service/
ArcGISGeoEventGateway-service /etc/init.d/

$ sudo ln -s <arcgis-server-install-location>/GeoEvent/bin/ArcGISGeoEvent-service
/etc/init.d/
For example: $ sudo ln -s /arcgis/server/GeoEvent/bin/ArcGISGeoEvent-service /etc/
init.d/
```

b. Automatically start the GeoEvent Server and Gateway daemons when the machine is rebooted:

```
$ sudo update-rc.d ArcGISGeoEventGateway-service defaults
```

```
$ sudo update-rc.d ArcGISGeoEvent-service defaults
```

c. Start the GeoEvent Server and Gateway daemons:

```
$ service ArcGISGeoEventGateway-service start
```

```
$ service ArcGISGeoEvent-service start
```

d. (Optional) Stop the GeoEvent Server and Gateway daemons:

```
$ service ArcGISGeoEventGateway-service stop
```

```
$ service ArcGISGeoEvent-service stop
```

e. (Optional) Check the GeoEvent Server and Gateway daemons status:

```
$ service ArcGISGeoEventGateway-service status
```

```
$ service ArcGISGeoEvent-service status
```

Proceed to Optional: Marking the self-signed GeoEvent Server certificate as trusted by Internet Explorer.

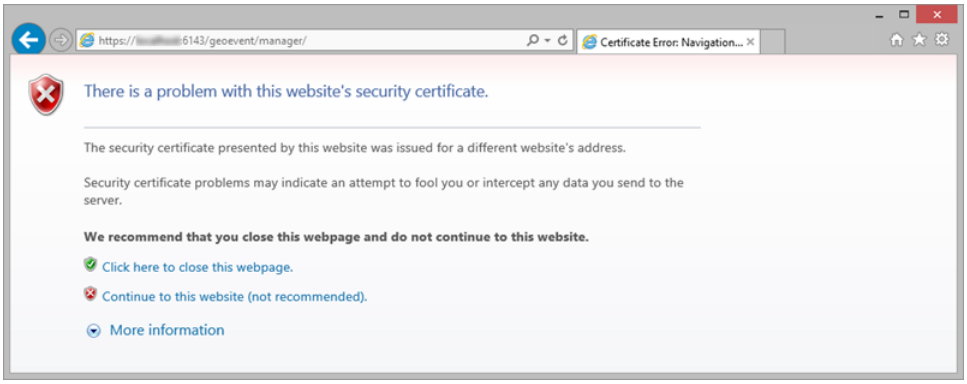
Mark the self-signed GeoEvent Server certificate as trusted by Internet Explorer

ArcGIS GeoEvent Server uses HTTPS to encrypt all administrator transactions. Every HTTPS server must be configured with a certificate for HTTPS clients to connect. During startup, GeoEvent Server creates a self-signed certificate to use for its HTTPS connections if one is not configured. This means the first time you access ArcGIS GeoEvent Manager, you may have to import the self-signed certificate into your store of trusted certificates.

If you do not change the certificate configured with GeoEvent Server, your browser warns you about a problem with the website's security certificate. This happens because the GeoEvent Server certificate is not marked as trusted by your browser.

Complete the following steps to connect to the GeoEvent Server protected endpoints:

1. Using Microsoft Edge on a Windows machine, open ArcGIS GeoEvent Manager by browsing to `https://gisserver.domain.com:6143/geoevent/manager/`. Alternatively, you can open GeoEvent Manager from the operating system shortcut installed with GeoEvent Server.
   The following security certificate error message appears:



2. Click the **Continue to this website (not recommended)** link.
   The sign-in page for GeoEvent Manager appears.
3. Click the certificate error and click the **View Certificates** link in the **Untrusted Certificate** window.
   The **Certificate** window appears.
4. Click **Install Certificate**.
   The **Certificate Import Wizard** appears.
5. Click **Next**.
6. Choose the **Place all certificates in the following store** option and click **Browse**.
   The **Select Certificate Store** dialog box appears.
7. Choose **Trusted Root Certificate Authorities** and click **OK**.
8. Click **Next**.
9. Click **Finish**.
   A **Security Warning** message appears, confirming the import was successful.
10. Click **Yes**.
    A **Certificate Import Wizard** message appears and confirms the import was successful.

11. Click **OK** twice and close Internet Explorer.
12. Using Internet Explorer, open GeoEvent Manager again and confirm that no warnings or certificate errors display.

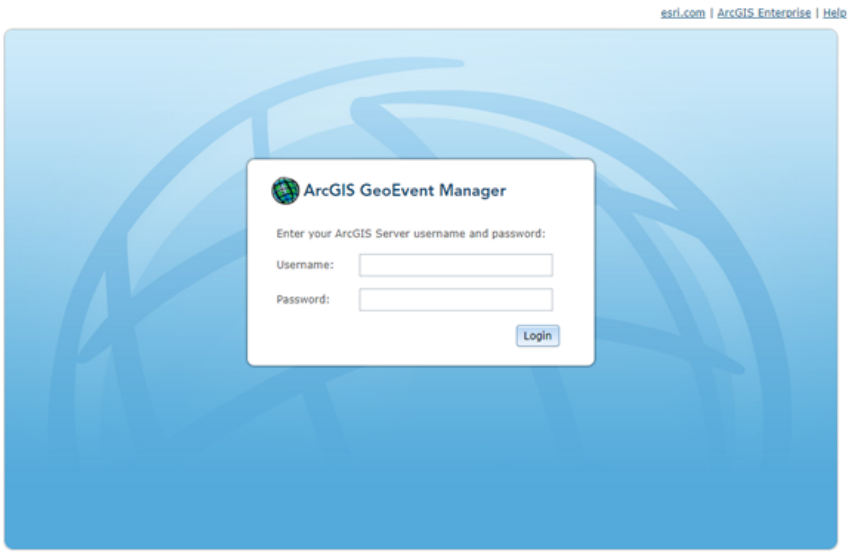
Proceed to Log in to GeoEvent Manager.

Sign in to GeoEvent Manager

ArcGIS GeoEvent Manager is the primary application for configuring ArcGIS GeoEvent Server.

The steps below walk you through signing in to GeoEvent Manager.

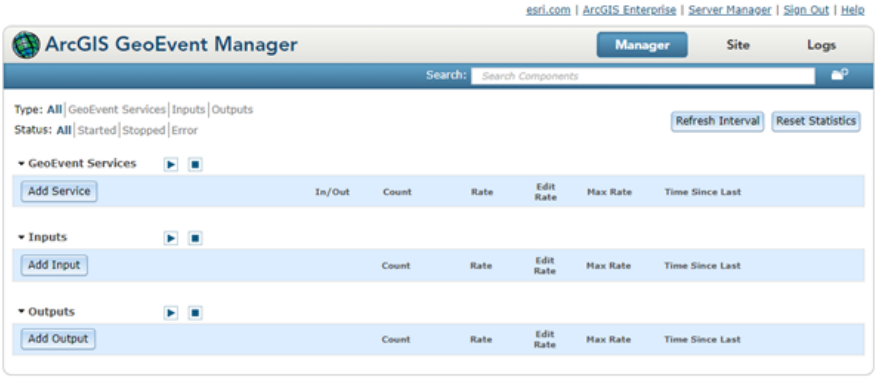
1. In a browser, open GeoEvent Manager by browsing to `https://gisserver.domain.com:6143/geoevent/manager/`. Alternatively, you can open GeoEvent Manager from the operating system shortcut installed with GeoEvent Server.
   The following page appears:



2. Enter your ArcGIS Server username and password and click **Login**.

   Note:
   Administrators and publishers can sign in to GeoEvent Manager using their appropriate credentials.

   GeoEvent Manager opens the **Manager** page, where you can access and monitor all your configured elements.



Optional: Replace the GeoEvent Server self-signed certificate

Some organizations may have their own certificate authority (CA) or have purchased a certificate from a commercial CA to avoid having multiple users go through the process of trusting a self-signed certificate.

The steps below will guide you through replacing the GeoEvent Server self-signed certificate.

1. Follow the appropriate steps outlined in Enabling SSL using an existing SSL certificate.
2. Restart the ArcGIS GeoEvent service.
3. Open **ArcGIS GeoEvent Manager** and confirm GeoEvent Server presents the correct certificate.

GeoEvent Server authentication

Authentication is the process of verifying the identity of a user. In ArcGIS Server, this can be done by using either ArcGIS token-based authentication or web-tier authentication. ArcGIS GeoEvent Server inherits authentication from ArcGIS Server.

For more information about ArcGIS Server authentication, see Web-tier authentication and About ArcGIS tokens.

Uninstall

Uninstall ArcGIS GeoEvent Server

The following steps will guide you through uninstalling ArcGIS GeoEvent Server. It is recommended you create a backup of your GeoEvent Server configuration prior to uninstalling. For details, see Backup and restore your GeoEvent Server site configuration.

RHEL 7.x and above

1. Stop and uninstall the GeoEvent Server and Gateway daemons:
   a. Stop the GeoEvent Server and Gateway daemons:

```
$ sudo systemctl stop geoevent.service
```

```
$ sudo systemctl stop geoeventGateway.service
```

   b. Disable starting the GeoEvent Server and Gateway daemons when the machine is rebooted:

```
$ sudo systemctl disable geoevent.service
```

```
$ sudo systemctl disable geoeventGateway.service
```

   c. Uninstall the GeoEvent Server and Gateway daemons:

```
$ sudo rm /etc/systemd/system/geoevent.service
```

```
$ sudo rm /etc/systemd/system/geoeventGateway.service
```

2. Uninstall GeoEvent Server:

```
$ <arcgis-server-install-location>/uninstall_GeoEvent.sh
For example: $ ~/arcgis/server/uninstall_GeoEvent.sh
```

RHEL 6.x

1. Stop and uninstall the GeoEvent Server and Gateway daemons:

```
$ cd <arcgis-server-install-location>/GeoEvent/bin
For example: $ cd ~/arcgis/server/GeoEvent/bin
```

   a. Stop the GeoEvent Server and Gateway daemons:

```
$ service ArcGISGeoEvent-service stop
```

```
$ service ArcGISGeoEventGateway-service stop
```

b. Disable starting the GeoEvent Server and Gateway daemons when the machine is rebooted:

```
$ sudo chkconfig ArcGISGeoEvent-service off
```

```
$ sudo chkconfig ArcGISGeoEventGateway-service off
```

c. Uninstall the GeoEvent Server and Gateway daemons:

```
$ sudo chkconfig --del ArcGISGeoEvent-service
$ sudo rm /etc/init.d/ArcGISGeoEvent-service
```

```
$ sudo chkconfig --del ArcGISGeoEventGateway-service
$ sudo rm /etc/init.d/ArcGISGeoEvent-service
```

2. Uninstall GeoEvent Server:

```
$ <arcgis-server-install-location>/uninstall_GeoEvent.sh
For example: $ ~/arcgis/server/uninstall_GeoEvent.sh
```

SUSE

1. Stop and uninstall the GeoEvent Server and Gateway daemons:

```
$ cd <arcgis-server-install-location>/GeoEvent/bin
For example: $ cd ~/arcgis/server/GeoEvent/bin
```

a. Stop the GeoEvent Server and Gateway daemons:

```
$ /etc/init.d/ArcGISGeoEvent-service stop
```

```
$ /etc/init.d/ArcGISGeoEventGateway-service stop
```

b. Disable starting the GeoEvent Server and Gateway daemons when the machine is rebooted:

```
Switch to root user ($ su)
$ chkconfig ArcGISGeoEvent-service off
```

```
Switch to root user ($ su)
$ chkconfig ArcGISGeoEventGateway-service off
```

c. Uninstall the GeoEvent Server and Gateway daemons:

```
$ insserv –r ArcGISGeoEvent-service
$ rm /etc/init.d/ArcGISGeoEvent-service
End the root user session
```

```
$ insserv –r ArcGISGeoEvent-service
$ rm /etc/init.d/ArcGISGeoEventGateway-service
End the root user session
```

2. Uninstall GeoEvent Server:

```
$ <arcgis-server-install-location>/uninstall_GeoEvent.sh
For example: $ ~/arcgis/server/uninstall_GeoEvent.sh
```

Ubuntu Server 16.04.x LTS and above:

1. Stop and uninstall the GeoEvent Server and Gateway daemons:
   a. Stop the GeoEvent Server and Gateway daemons:

```
$ sudo systemctl stop geoevent.service
```

```
$ sudo systemctl stop geoeventGateway.service
```

   b. Disable starting the GeoEvent Server and Gateway daemons when the machine is rebooted:

```
$ sudo systemctl disable geoevent.service
```

```
$ sudo systemctl disable geoeventGateway.service
```

   c. Uninstall the GeoEvent Server and Gateway daemons:

```
$ sudo rm /etc/systemd/system/geoevent.service
```

```
$ sudo rm /etc/systemd/system/geoeventGateway.service
```

2. Uninstall GeoEvent Server:

```
$ <arcgis-server-install-location>/uninstall_GeoEvent.sh
For example: $ ~/arcgis/server/uninstall_GeoEvent.sh
```

Ubuntu Server 12.04.x LTS:

1. Stop and uninstall the GeoEvent Server and Gateway daemons:

```
$ cd <arcgis-server-install-location>/GeoEvent/bin
For example: $ cd /arcgis/server/GeoEvent/bin
```

   a. Stop the GeoEvent Server and Gateway daemons:

```
$ ArcGISGeoEvent-service stop
```

```
$ ArcGISGeoEventGateway-service stop
```

b. Disable starting the GeoEvent Server and Gateway daemons when the machine is rebooted:

```
$ sudo update-rc.d -f ArcGISGeoEvent-service remove
```

```
$ sudo update-rc.d -f ArcGISGeoEventGateway-service remove
```

c. Uninstall the GeoEvent Server and Gateway daemons:

```
$ sudo rm /etc/init.d/ArcGISGeoEvent-service
```

```
$ sudo rm /etc/init.d/ArcGISGeoEventGateway-service
```

2. Uninstall GeoEvent Server:

```
$ <arcgis-server-install-location>/uninstall_GeoEvent.sh
For example: $ /arcgis/server/uninstall_GeoEvent.sh
```

Upgrade

Upgrade ArcGIS GeoEvent Server

Prepare to upgrade GeoEvent Server

The GeoEvent Server installer is designed to detect and upgrade an existing installation of GeoEvent Server on the target system.

Note:
Do not uninstall an existing version of ArcGIS GeoEvent Server before installing the new version of GeoEvent Server. Instead, run the GeoEvent Server installer to properly upgrade your existing GeoEvent Server configuration to the new version.

Before upgrading to a new version of GeoEvent Server, it is recommended you export your GeoEvent Server configuration using ArcGIS GeoEvent Manager and backup any installed or added components. The components are added to the following folder: `<ArcGIS Server installation directory>/GeoEvent/deploy`.

Note:
When upgrading from a 10.x version to GeoEvent Server 12.1, your existing GeoEvent Server site configuration will not be automatically upgraded during the installation. You will need to manually import your configuration file after successful completion of the upgrade. To acknowledge you understand this, `/ubc yes` must be specified following `./Setup.sh`. For more information on exporting and importing your GeoEvent Server site configuration, see Backup and restore your GeoEvent Server site configuration.

For any custom components you have developed including connectors and processors, you might need to modify the code, release numbers, configurations, and rebuild with the appropriate version of the GeoEvent Server Software Development Kit (SDK). For more information, see If I have custom components (connectors or processors) deployed, do I need to recompile them against the latest GeoEvent Server SDK when upgrading? below.

Upgrade GeoEvent Server

To upgrade GeoEvent Server from a previous version, follow the steps below:

1. Stop the **ArcGIS GeoEvent Server** daemon
2. Stop the **ArcGIS GeoEvent Gateway** daemon.
3. When applicable, stop and uninstall the **ArcGIS GeoEvent Server** and **ArcGIS GeoEvent Gateway** daemons.

   Note:
   Refer to the GeoEvent Server Installation Guide for the version currently installed and execute Step 1 of the Uninstall ArcGIS GeoEvent Server topic to stop and uninstall the daemons.

4. Upgrade ArcGIS Server.

   Note:
   The version of ArcGIS Server and ArcGIS GeoEvent Server must be the same.

5. Upgrade ArcGIS GeoEvent Server by following the installation steps at Install GeoEvent Server. This will upgrade GeoEvent Server to the new version.

Common software upgrade questions

This section addresses common questions about the upgrade behavior of GeoEvent Server.

Do I need to uninstall a previous version of GeoEvent Server before installing the new version?

No. If you already have an existing version of GeoEvent Server installed, the setup will automatically upgrade it to the new version without any additional configuration.

Do I need to backup anything before installing the new version of GeoEvent Server?

Yes. It is recommended that you back up your GeoEvent Server configuration as well as your added components.

To backup your GeoEvent Server configuration, use GeoEvent Manager to export your configuration as a configuration file.

Note:
When upgrading from a 10.x version to GeoEvent Server 12.1, your existing GeoEvent Server site configuration will not be automatically upgraded during the installation. You will need to manually import your configuration file after successful completion of an upgrade. For more information on exporting and importing your GeoEvent Server site configuration, see Backup and restore your GeoEvent Server site configuration.

To backup your added components, back up the content from the following folder: `<ArcGIS Server installation directory>/GeoEvent/deploy`.

If I upgrade to a new version of ArcGIS Server, do I need to upgrade GeoEvent Server?

Yes. The release of GeoEvent Server must match ArcGIS Server. You cannot run mismatched releases of the software on the same machine.

If I have custom components (connectors or processors) deployed, do I need to recompile them against the latest GeoEvent Server SDK when upgrading?

With any GeoEvent Server release, there may be important updates to backend libraries and dependencies that may require any custom components (connectors and processors) developed and deployed on a previous release of GeoEvent Server to be recompiled using the GeoEvent Server SDK being installed. Before deploying to a production environment a custom component built against a previous release's SDK, ensure it works as expected.

If a custom component deploys correctly, no further action is needed. If the custom component does not deploy correctly, recompile against the release of the GeoEvent Server SDK being installed.

Reference

Questions, feedback, and information

There are a number of options for you to provide feedback or obtain further information.

My Esri

My Esri is a website where you can interact with Esri to find answers to questions, post feedback, and obtain information. The website also contains frequently asked questions, how-to instructions, software downloads, troubleshooting tips, and so on. Sign in to the website with your Esri account. Alternatively, you can contact Customer Service or your local distributor.

Web help

Visit the ArcGIS Pro, ArcGIS Enterprise, Esri Documentation and Esri Developer websites for up-to-date information about ArcGIS software and services. These resources can help you increase your understanding of GIS technology.

Installation help

Downloads include the `Install.htm` help file. You can find what you need by searching the table of contents or finding the number of times a term appears in a section.

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Note:
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Note:
As of August 2024, the website now states: "This site has been deprecated. You can access an archive of this site at https://web.archive.org/web/20210225153105/https://www.extreme.indiana.edu/".

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