Cloudera Edge Management 1.4.0

MiNiFi Java Agent Installation

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CLOUDERA

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Install the MiNiFi Java agent

Learn how to install the MiNiFi Java agent. You need to install and configure the MiNiFi Java agent and then start it. You can also do the same on Windows.

Before you begin installing MiNiFi Java agent

To start using the MiNiFi Java agent, you need to install it. Learn how to obtain the MiNiFi Java software bit, install the agent, and configure it. Also learn the system requirements to do so.

System requirements for MiNiFi Java

Before you begin your installation of Cloudera Edge Management (CEM) software, carefully review the system requirements for MiNiFi Java to understand operating system and JDK support.

Operating system support

Operating System	Version
RHEL/CentOS	7.x, 8.x
Debian	9
Ubuntu	16.04, 18.04
Windows	8, 10, Server 2012, Server 2012 R2, Server 2016, Server 2019

JDK support

JDK	Version
OpenJDK	JDK8, JDK11
Oracle JDK	JDK8, JDK11

Installing Java for MiNiFi Java agent

You should install Java on each machine where you will install a MiNiFi Java agent.

Procedure

1. Download JDK from the appropriate website.
2. Run the installation command appropriate for your operating system:

   For RHEL/CentOS:

   ```
   yum install java-1.8.0-openjdk
   ```

   For Debian and Ubuntu:

   ```
   apt-get install openjdk-8-jre
   ```

Installing the MiNiFi Java agent

To install your MiNiFi Java agent, you need to download the software for the agent and extract it.

Procedure

1. Download the tar.gz or zip files for the MiNiFi Java agent.

```
wget {java.tar.gz}
```

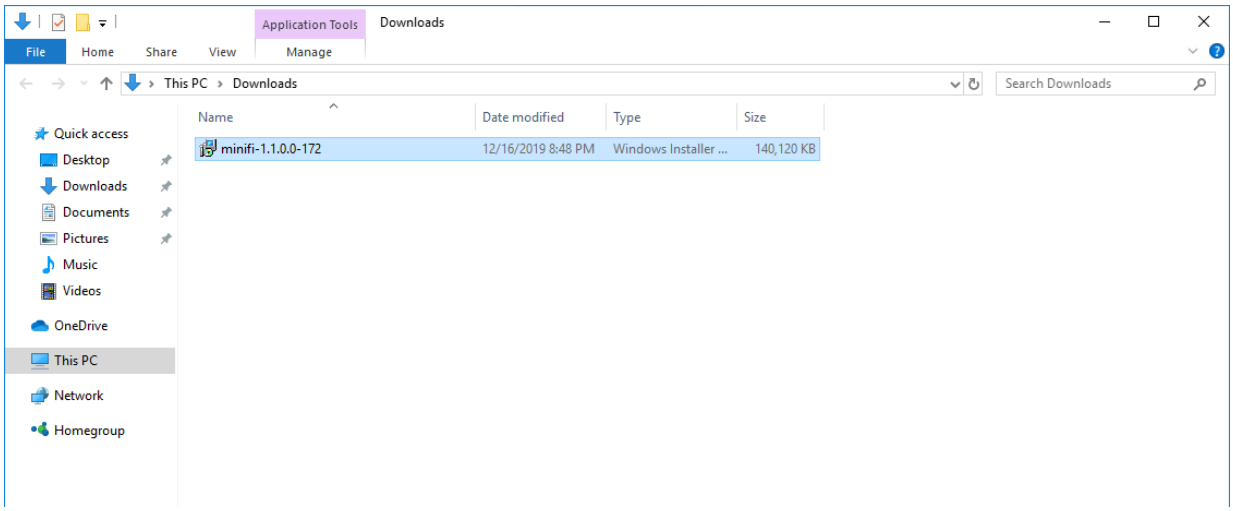
2. To install the MiNiFi Java agent, extract the file to your desired home directory.

Installing the MiNiFi Java agent on Windows using the MSI

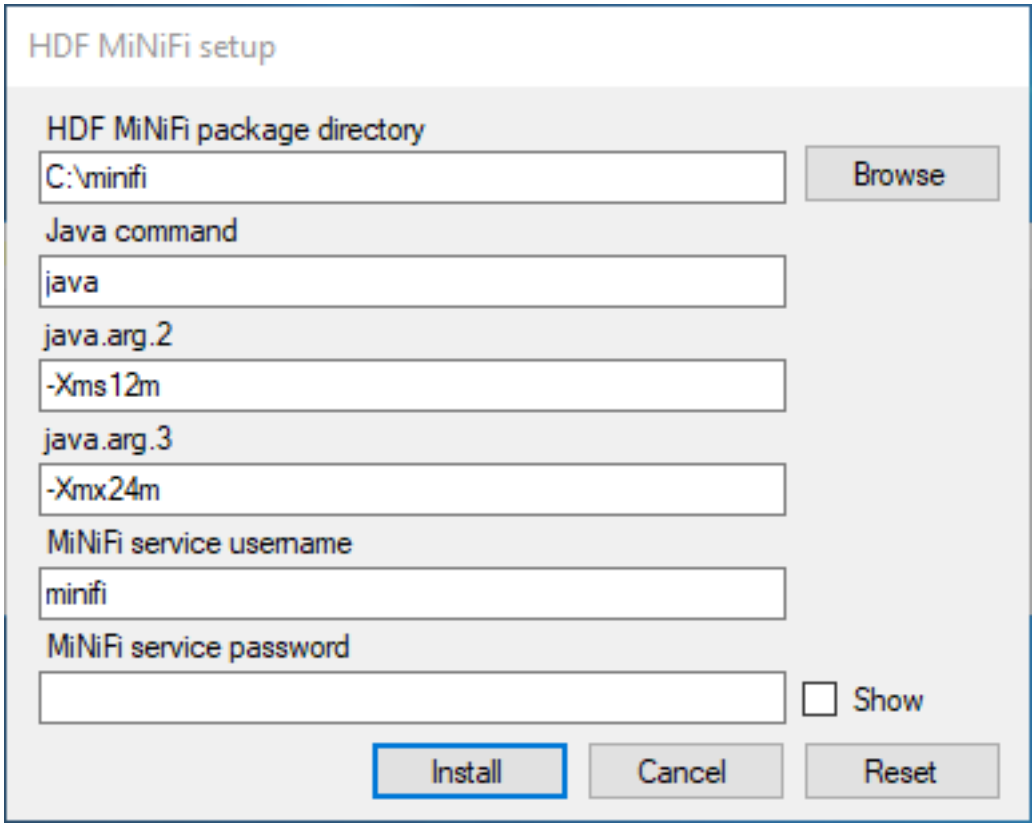
Learn how to install and configure the MiNiFi Java agent on Windows by using the provided MSI.

Procedure

1. Download the MiNiFi Java installer in your PC through the paywall.



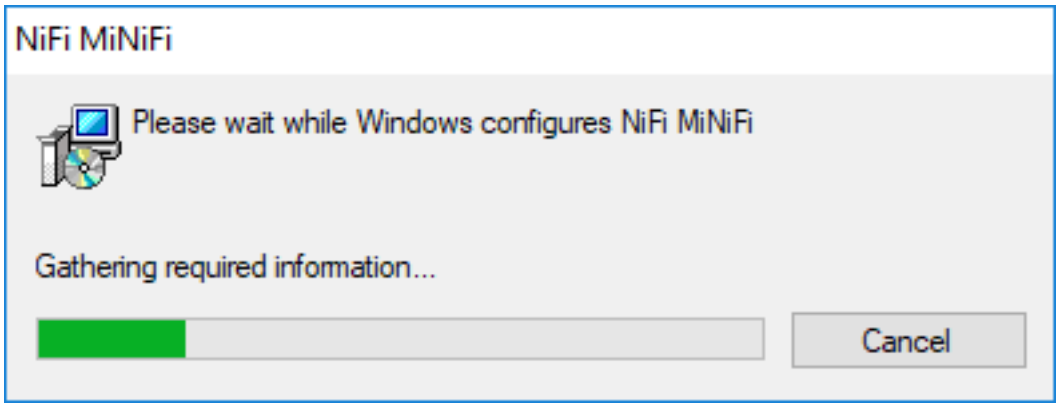
2. Double-click the executable file.
   The HDF MiNiFi setup wizard appears, as shown in the following image:



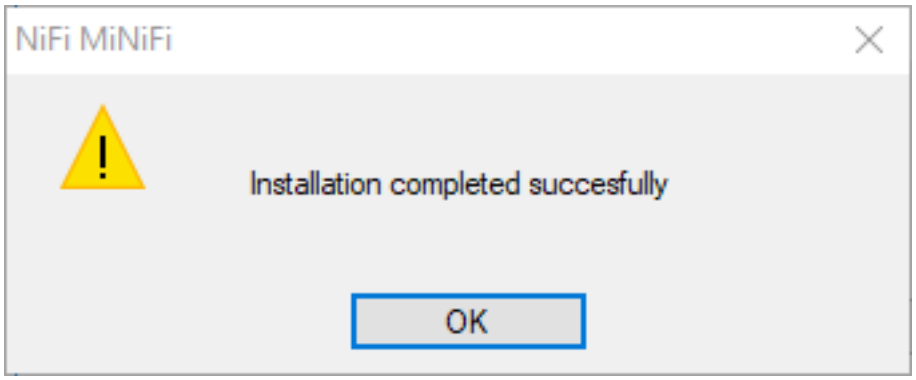
3. Configure the Java command option to the path of the java installation you would like to use.

   Note: By default, CEM assumes that java is on your system's path.

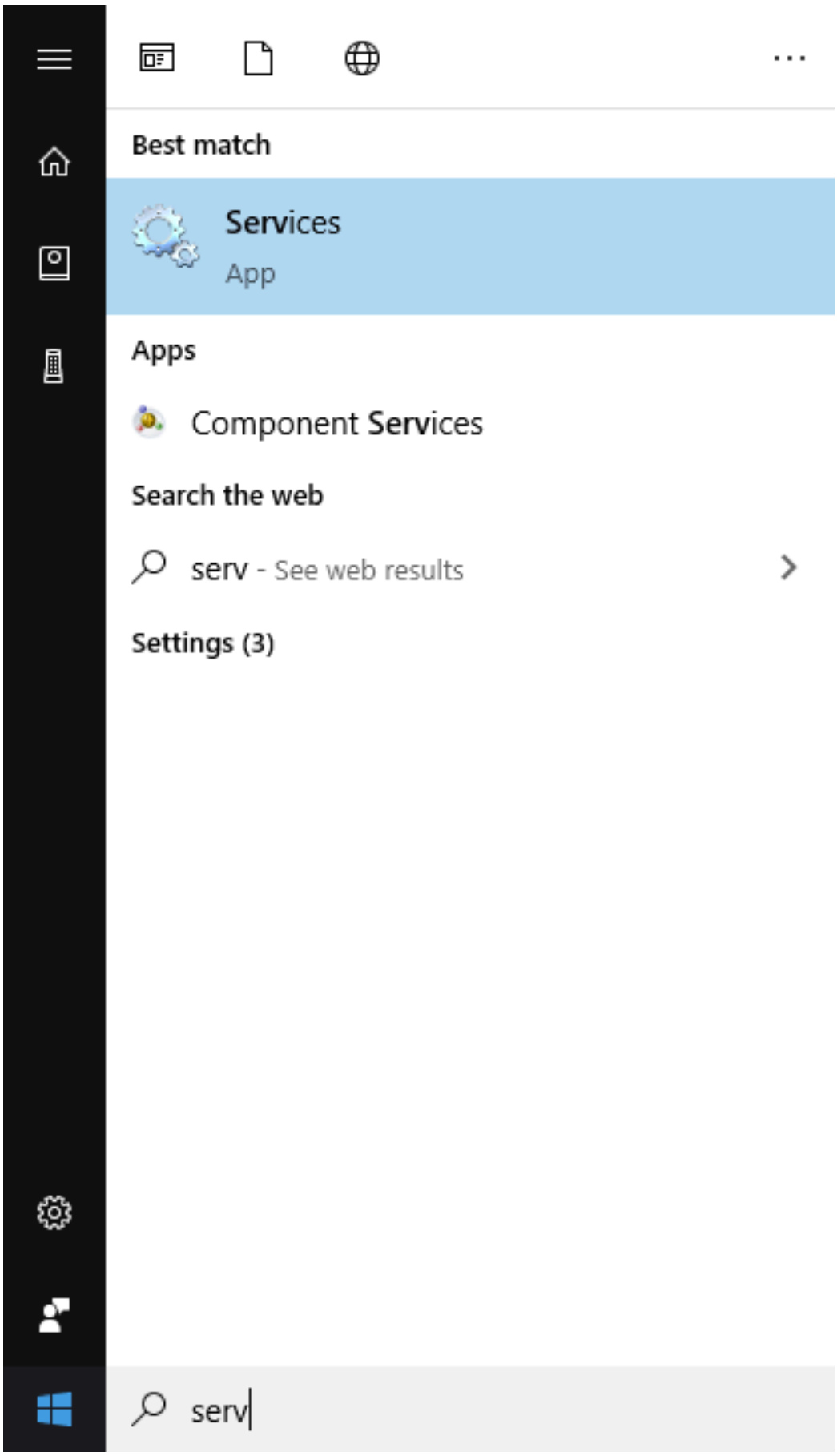
4. Click Install.
   Windows starts configuring NiFi MiNiFi, as shown in the following image:



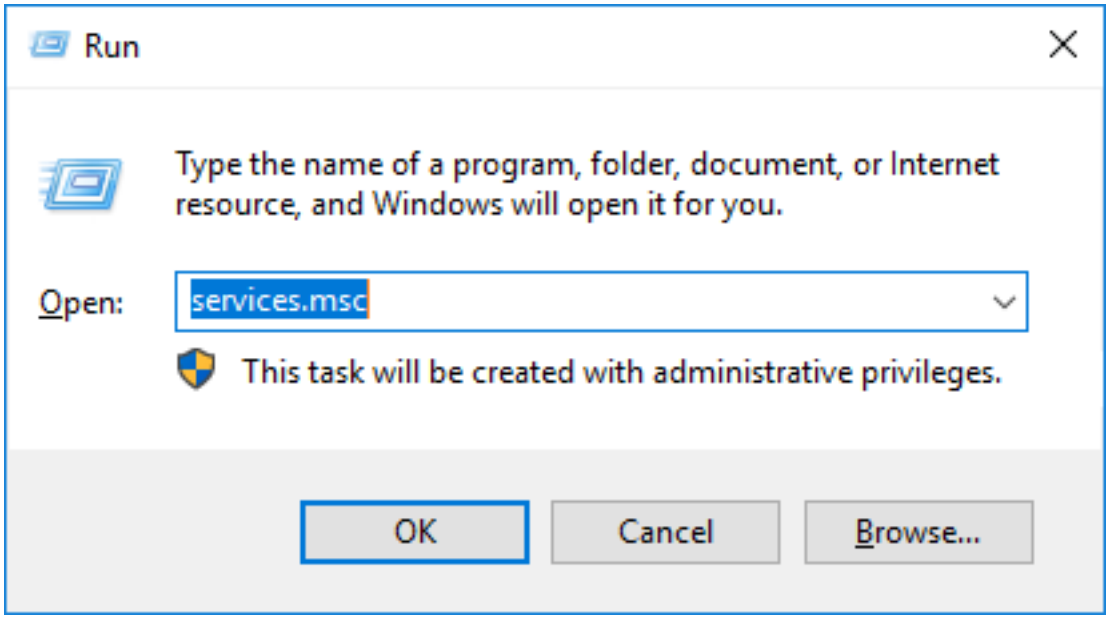
5. Click OK when installation completes.



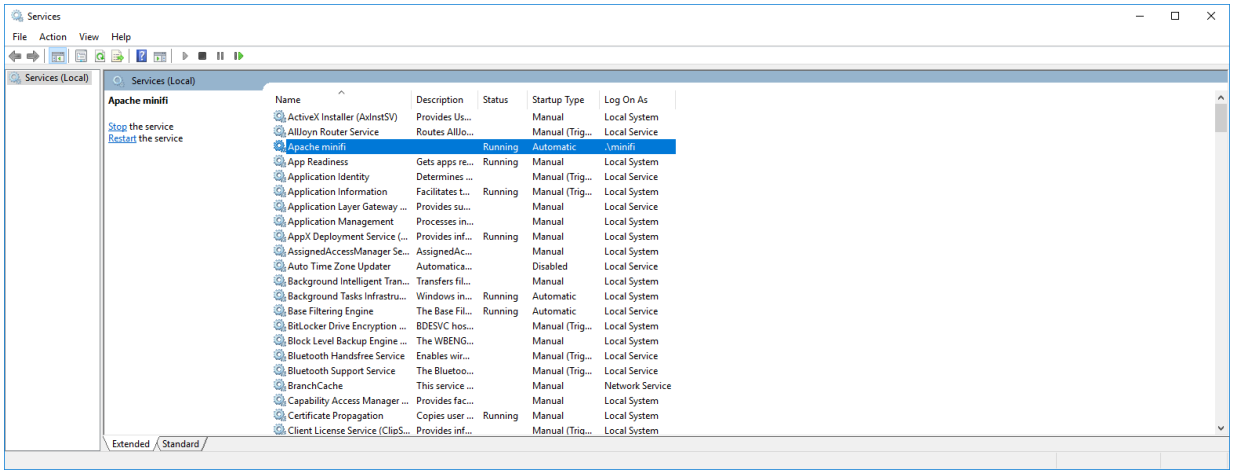
6. Search for services in the Start menu of your PC and open it, as shown in the following image:


Best match
Services
App
Apps
Component Services
Search the web
serv - See web results
Settings (3)
serv

You can also run services by pressing [Windows key + R] and then typing services.msc in the Open field, as shown in the following image:



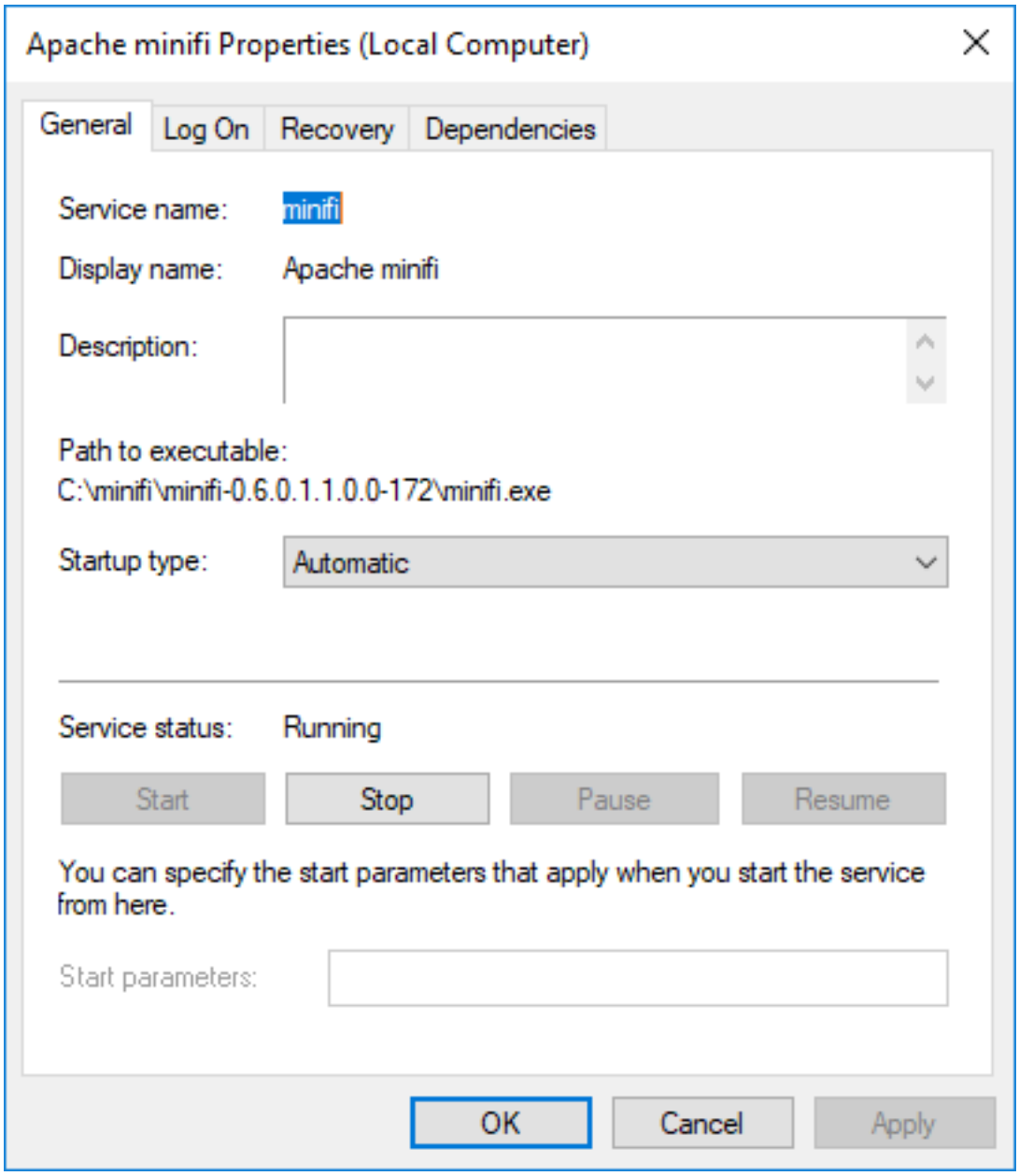
After you click OK, the Services window appears.



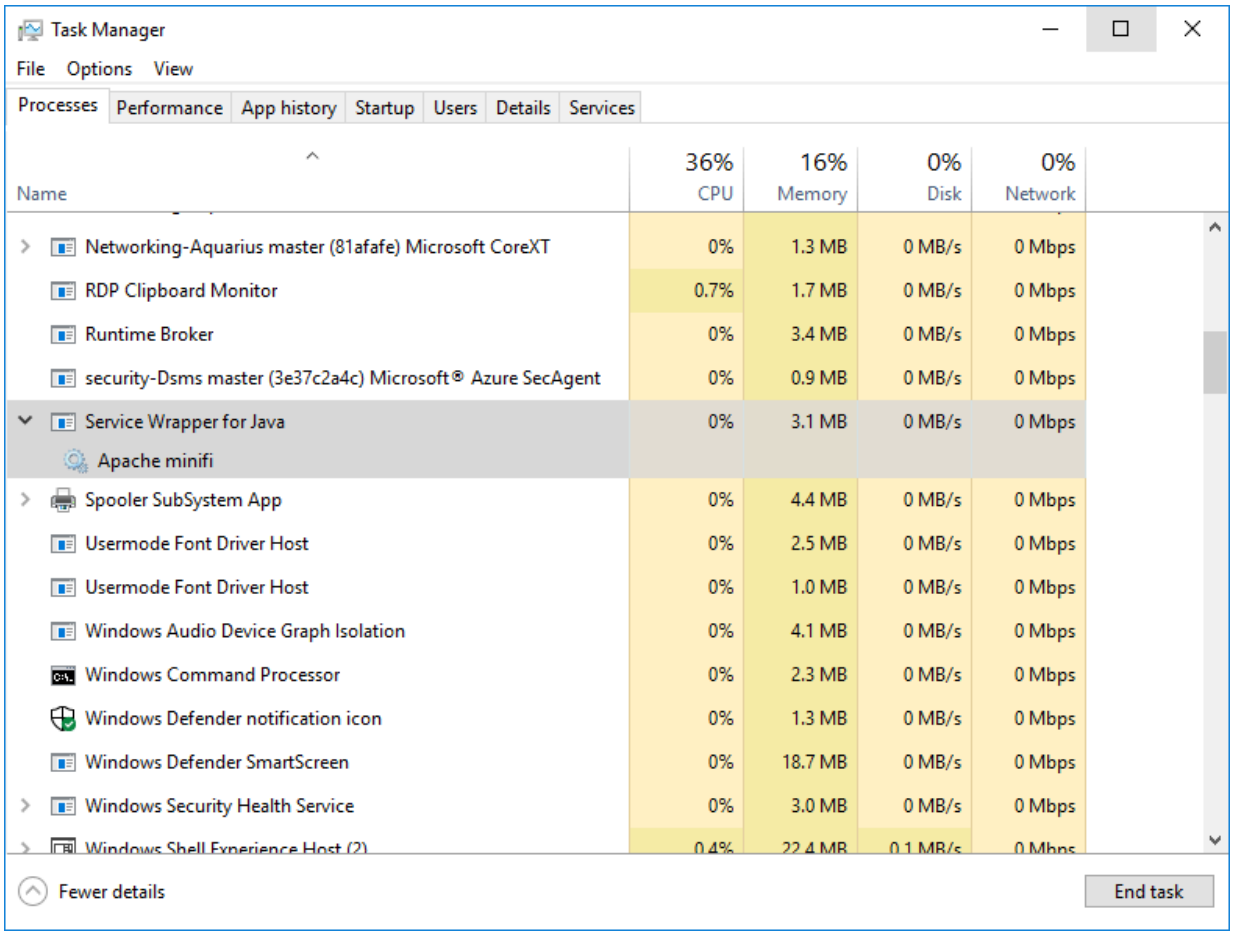
7. In the Services window, double-click Apache minifi.

   The Apache minifi Properties (Local Computer) window appears.

8. Check the services setup and click OK.



9. In the Task Manager window confirm whether the process is running.



10. Exit or close the window when done.

MiNiFi Java agent configurations

Learn about different configurations that you can perform for your MiNiFi Java agent.

Configuring your MiNiFi Java agent

After you install the MiNiFi Java agent, you need to update the configuration files.

About this task

If you are configuring a MiNiFi Java agent, the configuration file is conf/bootstrap.conf.

Procedure

1. From the MiNiFi home directory, open the configuration file.
2. Configure the agent class so that you can logically group MiNiFi Java instances according to their functionality.

```
nifi.c2.agent.class={AGENT_CLASS}
```

Note: Leading and trailing whitespaces are accepted for Agent Class names so consider this when configuring agents.

3. Configure the agent ID. If you do not specify an agent ID, MiNiFi generates a unique ID per agent instance.

```
nifi.c2.agent.identifier={AGENT_ID}
```

4. Set the nifi.c2.enable property to true to inform MiNiFi that run time flow instructions will be received from EFM.

```
nifi.c2.enable=true
```

5. Configure your EFM Server endpoint:

```
nifi.c2.rest.url=http://{EFM_SERVER_IP}:10090/efm/api/c2-protocol/heartb
eat
nifi.c2.rest.url.ack=http://{EFM_SERVER_IP}:10090/efm/api/c2-protocol/ac
knowledge
```

6. Configure your heartbeat interval:

```
nifi.c2.agent.heartbeat.period={HEARTBEAT_INTERVAL}
```

Configuring communication with secured EFM

To communicate with secured EFM, you need to configure additional properties.

About this task

If you are configuring a MiNiFi Java agent, the configuration file is conf/bootstrap.conf.

Procedure

For the Java agent, configure the following additional properties in the bootstrap.conf file to communicate with a secured EFM:

```
c2.security.truststore.location=
c2.security.truststore.password=
c2.security.truststore.type=
c2.security.keystore.location=
c2.security.keystore.password=
c2.security.keystore.type=
```

Starting MiNiFi agent

After MiNiFi is installed and configured, you can start it. Learn how to start your MiNiFi agent.

Procedure

1. From a terminal window, navigate to the MiNiFi installation directory.
2. To start MiNiFi in the foreground, enter:

```
bin/minifi.sh run
```

3. To start MiNiFi in the background, enter:

```
bin/minifi.sh start
```