



Host Access Analyzer 1.0

Installing and Configuring the HAA
Client

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Contents

System Requirements	4
Installation	5
Installing the service silently	5
Uninstalling the service silently	5
Installing the service using the wizard	5
Modifying configurations	6
Server configuration	6
Service configuration	6
Uploading scan results	6
Monitoring connections	7
User configuration	8
Working Offline	12
Contacting Micro Focus	13
Further information and product support	13
Information we need	13
Contact information	13
MICRO FOCUS END USER LICENSE AGREEMENT	15

System Requirements

Operating systems, applications, and environments

Host Access Analyzer operates on PCs with the following operating systems, applications, and environments:

- Windows 7, 8.1, and 10

Prerequisite software

The following software is required for Host Access Analyzer Client to install:

- Microsoft .NET Framework 4.5

If not already installed, Host Access Analyzer installs it automatically, if the installer is able to download the required files.

Installation

The installer automatically installs a new service, Host Access Analyzer Service, which runs under the System account.

The Host Access Analyzer client installer for windows is a .exe file that allows both silent and wizard installation.

In silent installation mode, you can use a command line parameter to avoid starting the service automatically after installation. For example, to allow configuration modifications to be made first. In this case, the service either starts after the next reboot or can be started manually.

Installing the service silently

Run `haa-client-installer-1.0.0.exe` as an administrator.

Command line parameters

`<haa-server-hostname>` The IP or host name of the HAA producer server.

`<haa-server-port>` The port of the HAA producer server.

`<silent>` Runs installation without user interaction.

`<nostart>` Does not start the service automatically after installation.

Example:

```
haa-client-installer-1.0.0.exe /haa-server-hostname=10.10.13.102 /haa-server-port=6566 /silent /nostart
```

Uninstalling the service silently

From the install location, run the following command:

```
unins000.exe /silent
```

Installing the service using the wizard

Double-click the `haa-client-installer-1.0.0.exe` file.

Modifying configurations

To modify the client-side behavior, you can edit the configuration files, followed by a service restart.

There are three separate configuration files, controlling server connectivity, service-wide configurations, and user-specific configurations.



Note:

Product configurations and logs can be found under the product configuration location at %ProgramData%\Micro Focus\HostAccessAnalyzer.

User configurations are located in the user's private dir, C:\Users*<user_name>*\AppData\Local\Micro Focus\HostAccessAnalyzer.

The product installation location is %ProgramFiles(x86)%\Micro Focus\Host Access Analyzer.



Note: Any configuration change requires a service restart to take effect.

Server configuration

The server configuration defines how the client connects to the server.

HostAccessAnalyzerUserConfiguration.conf contains the default server configuration. The following shows an example configuration:

```
{
  "Host": "10.141.11.231",
  "Port": 6566,
  "Security": {
    "EnableSSL": true,
    "HostOverride": "haa",
    "CertificatePath": ""
  }
}
```

The host and port are assigned during installation. The connection is set to be secured by default. Otherwise, you need not change anything.

Service configuration

The service configuration includes tasks for uploading scan results and monitoring TCP connections to specific hosts.

Uploading scan results

HostAccessAnalyzerServiceConfiguration.conf contains the service configuration:

```
{
  "tasks": [
    {
      "cronSchedulerExpression": "0 0 2 * * ?",
      "offsetInHours": 3,
      "uploadImmediately": false,
    }
  ]
}
```

```

        "taskConfiguration": {
            "@type": "type.googleapis.com/
com.microfocus.tecom.rpc.api.management.MessagesUploaderTaskConfiguration"
        }
    },
    "connectionMonitoring": {
        "enabled": true,
        "monitoredHosts": {},
        "connectionPollingInterval": 5
    },
    "tempMessagesStorageLocation": "%programdata%\Micro Focus\
\HostAccessAnalyzer\Requests"
}

```

`cronSchedulerExpression` defines the task schedule:

This value ...	Starts the schedule ...
0	After 0 seconds.
0	After 0 minutes.
2	At 2 AM.
*	Every day.
*	Every month.
?	Any year.

`MessagesUploaderTaskConfiguration` defines when to upload scan results to the server (see [User Configuration](#)). By default, the task runs at 2 AM each day, as defined by `cronSchedulerExpression`, then picks a random time from zero minutes to 3 hours (`offsetInHours`) and begins uploading. The aim is to reduce network load while uploading across the organization. You can modify this as desired.

 **Note:** If a task misses its schedule, for example, if a machine is offline, it runs automatically at the first available opportunity.

Monitoring connections

HAA monitors all TCP connections to a set of defined hosts. The hosts list is configured at the machine level in the `HostAccessAnalyzerServiceConfiguration.conf` file in the product configuration location.

To add hosts to the list, edit the file and apply your changes to the `monitoredHosts` entry. For example:

```

"connectionMonitoring": {
  "enabled": true,
  "monitoredHosts": {
    "Popeye": "*",
    "Olive": "23",
    "Bluto": "22, 23",
    "Wimpy": "20 - 30",
    "10.10.10.100": "*"
  },
  "connectionPollingInterval": 5
}

```

where:

This line ...	Means ...
<code>"enabled": true,</code>	Enable/disable all connection monitoring.

This line ...	Means ...
"Popeye": "*" ,	Monitor all ports of a host.
"Olive": "23" ,	Monitor a specific port of a host.
"Bluto": "22, 23" ,	Monitor a comma-separated list of ports of a host.
"Wimpy": "20 - 30" ,	Monitor a range of ports of a host.
"10.10.10.100": "*" ,	Monitor all ports of a host address.



Notes:

- If a task misses its schedule, for example, if a machine is offline, it runs automatically at the first available opportunity.
- To turn off monitoring, you can either delete all hosts from this list or change the `enabled` setting to `false`.
- `connectionPollingInterval` is a setting that applies to how often, in seconds, monitoring TCP connections executes on Windows 7. It should be left unchanged unless a valid reason exists to the contrary.

User configuration

User configuration defines which terminal emulator content should be collected for the specific user. Initially, for each user a copy of the default user configuration file, `HostAccessAnalyzerUserConfiguration.conf` in the [product configuration location](#), is copied over to the [user's private directory](#).



Note: To modify a user's configuration, you must edit the file placed in the user's private directory, not the default file in the product configuration location.

This is the default user configuration:

```
{
  "tasks": [
    {
      "cronSchedulerExpression": "0 0 12 2 * ?",
      "offsetInHours": 0,
      "uploadImmediately": true,
      "taskConfiguration": {
        "@type": "type.googleapis.com/microfocus.tecom.rpc.api.management.InstalledProductsTaskConfiguration",
        "filters": [
          {
            "vendorNameRegex": [
              "(.*)?"
            ],
            "productNameRegex": [
              "(?i)(.*)?Extra!(.*)?"
            ],
            "mappedFamily": {
              "microfocus": {
                "product": "EXTRA"
              }
            }
          }
        ],
        "vendorNameRegex": [
          "(?i)Micro Focus"
        ],
        "productNameRegex": [
```



```

    ],
    "maxFileSize": 50
  }
},
"pluginFamilies": [
  {
    "microfocus": {
      "product": "RUMBA"
    }
  },
  {
    "microfocus": {
      "product": "EXTRA"
    }
  },
  {
    "microfocus": {
      "product": "REFLECTION"
    }
  },
  {
    "microfocus": {
      "product": "INFOCONNECT"
    }
  },
  {
    "ibm": {
      "product": "PCOMM"
    }
  }
]
}

```

`cronSchedulerExpression` defines the task schedule:

This value ...	Starts the schedule ...
0	After 0 seconds.
0	After 0 minutes.
12	At noon.
2	On the 2nd of each month.
*	Every month.
?	Any year.

 **Note:** Host Access Analyzer currently covers Micro Focus (Rumba+ Desktop, Extra!, InfoConnect, and Reflection) and IBM (PComm) terminal emulator products.

By default, the user configuration file includes several sections:

- A periodic task to scan for installed terminal emulator products. This task is currently set to execute monthly (at noon on the 2nd of the month).
- A periodic task to scan for the terminal emulator files (workspaces, sessions, macros, keyboard maps, and toolbar definitions). All files are verified before being uploaded to the server.

This task is currently set to execute monthly (at noon on the 2nd of the month). To specify the search or exclude locations for this task:

- You must specify one or more locations, separated by commas.
- Escape explicit paths. For example,

```
C:\\Temp
```

- Ant Path format is supported. For example, `C:**\\Macros`.
- You can use environment variables (inside `%`), as well as these predefined tokens:

```
%localDrives%  
%networkDrives%
```

- A list of the enabled terminal emulator products to monitor. For example, Rumba+ Desktop and Reflection. You can change the list to enable and disable monitoring of specific products.



Notes:

- If a task has not run before, it runs automatically on launch.
- If a task misses its schedule, for example, if a machine is offline, it runs automatically at the first available opportunity.
- To run all scans again, delete the `HostAccessAnalyzerTaskExecutions.conf` file in the [product configuration location](#), and restart the service.

Working Offline

If you want to configure clients that do not upload directly to the server, go through the following steps:

1. If needed, set the server IP address in `HostAccessAnalyzerServerConfiguration.conf` to `127.0.0.1`, then restart the service.
2. Work normally. Uploads remain on disk in the `Requests` folder in the product configuration location.
3. When you want to upload, stop the service and move all content from the `Requests` folder to a connected client's `Requests` folder.
4. Edit the connected client's `HostAccessAnalyzerTaskExecution.conf` file and delete the `MessagesUploaderTask` block so the upload task executes immediately.
5. Restart the service.

Contacting Micro Focus

Our Web site gives up-to-date details of contact numbers and addresses.

Further information and product support

Additional technical information or advice is available from several sources.

The product support pages contain a considerable amount of additional information, such as:

- The *Product Updates* section of the Micro Focus SupportLine Web site, where you can download fixes and documentation updates.
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Information we need

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- Your computer make and model.
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- The relevant page reference or section in the documentation.
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Host Access Analyzer 1.0

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