

# Goliath Application Availability Monitor for VMware Horizon View Installation Guide

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## *Goliath Application Availability Monitor Proof of Concept Limitations*

Goliath Application Availability Monitor Proof of Concepts (POC) will be limited to launching a single VMware Horizon View application or desktop from one location.

If your evaluation or POC process requires a different configuration than the licensing allows for, please contact your account manager or Goliath Sales or Support as follows for assistance:

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Phone: 1-855-465-4284

### Support

Email: [support@goliathtechnologies.com](mailto:support@goliathtechnologies.com)

Phone: 1-855-465-4282

<http://www.goliathtechnologies.com>

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# Table of Contents

- Goliath Application Availability Monitor for VMware Horizon View Installation Prerequisites ..... 4
- Goliath Service Accounts..... 5
- Goliath Firewall Settings..... 5
  - A. Goliath Intelligent Agent for the Launch Endpoint ..... 5
  - B. Goliath Application Availability Monitor Server ..... 5
- Goliath Antivirus Exclusions/Filters..... 5
- Are You Ready to Install? ..... 6
- Goliath Server Installation Steps ..... 6
- Post Installation: What’s Next? ..... 11
  - C. Prepare the Launch Endpoint(s) ..... 11
  - D. Configure the Launches ..... 16
  - E. Launch Scheduling ..... 20
  - F. Understanding the Launch Results ..... 21
- Appendix ..... 23
  - A. Agent Install..... 23
  - B. Determining the Goliath Server IP Address/FQDN..... 23
  - C. Determining the Goliath Agent Port..... 23
  - D. Determining the Goliath Web Port..... 23
  - E. Alert Notification Information ..... 24
    - 1. Email – Configure SMTP Server Parameters ..... 24
    - 2. Email – Create Custom Email Groups..... 24
    - 3. SNMP Traps – Prerequisites ..... 25
  - F. Reporting ..... 25
  - G. Manual Endpoint Configuration ..... 26

# Goliath Application Availability Monitor for VMware Horizon View Installation

## Prerequisites



**Note:** On the Goliath Server, if it is running **Windows Server 2012-2016**, .NET 3.5 needs to be installed from the Features Wizard as .NET 4.5 is not backwards compatible. Goliath can be accessed over the network or WAN to your local computer.

**International users:** For installations in environments requiring foreign language versions of Windows, Goliath requires that the base installation be performed with the English version of Windows OS. Localization should be done using language packs only, no localized Windows OS install.

Table 1 - Goliath Application Availability Monitor for VMware Horizon View System Requirements

Component	Requirement
<b>Goliath Server</b> (please disregard if also using Goliath Performance Monitor)	<ul style="list-style-type: none"> <li><input type="checkbox"/> Virtual Machine or Physical Server</li> <li><input type="checkbox"/> Windows Server 2008 R2 – 2016 64 bit</li> <li><input type="checkbox"/> .NET 3.5 Framework</li> <li><input type="checkbox"/> Static IP address</li> <li><input type="checkbox"/> Minimum of 4 vCPU</li> <li><input type="checkbox"/> Minimum of 8 GB RAM</li> <li><input type="checkbox"/> Minimum of 25 GB Disk Available</li> <li><input type="checkbox"/> <b>Dependencies:</b> <ul style="list-style-type: none"> <li>o PowerShell 3.0</li> <li>o Internet Explorer 11</li> </ul> </li> </ul>
<b>Launch Endpoint</b>	<ul style="list-style-type: none"> <li><input type="checkbox"/> <b>OS:</b> Windows Server 2008 R2 – 2016 64 bit, Windows 7-10</li> <li><input type="checkbox"/> <b>Resources:</b> Minimum of 2vCPU and 2 GB RAM</li> <li><input type="checkbox"/> <b>Dependency:</b> Goliath Agent deployed</li> <li><input type="checkbox"/> <b>VMware Horizon View Client:</b> version 4+</li> <li><input type="checkbox"/> <b>User Account Control:</b> Disabled at the System level, not through Control Panel</li> <li><input type="checkbox"/> <b>VMware Test Account:</b> Dedicated VMware test account with rights to applications or desktops to be launched</li> <li><input type="checkbox"/> <b>Windows Account:</b> Dedicated Windows account that must be active/disconnected to the endpoint at all times. This can be the same as the VMware account</li> </ul>
<b>Firewall</b>	<p><i>Goliath Server</i></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> HTTPS 443/TCP 80* opened inbound and outbound for web console connection</li> <li><input type="checkbox"/> TCP 8282* opened inbound for agent connection to agent location</li> </ul> <p><i>Goliath Intelligent Agent</i></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> TCP 8282* opened outbound for agent connection to the Goliath Server</li> </ul> <p>* Default ports listed and can be modified.</p>

## Goliath Service Accounts

Infrastructure Component	Rights	Notes
Launch Endpoint	Local Admin Rights	This can be a local account or a domain account
Remote SQL (for Goliath DB)*	DBO	Needs to be applied to the Goliath Database.
Goliath Server*	Local Admin Rights	The account that has DBO rights to the Goliath database will also need local admin rights on the Goliath server.
VMware Launch Account	Access to apps and desktops	Needs rights to launch the applications and desktops

\*only needed for Goliath Application Availability Monitor Standalone (not integrated with Goliath Performance Monitor) if using an external database

## Goliath Firewall Settings

### A. Goliath Intelligent Agent for the Launch Endpoint

Source	Destination	TCP Port	Traffic	Notes
Agent Location	Goliath Server	8282	Outbound	Agent connection. Default port listed, port can be modified.

Monitoring Endpoints/Workstations that reside **outside** your network will require the following:

- NAT policy on the firewall to allow agent communication inbound via TCP 8282 (default port, this can be changed)
- Public IP address of the firewall

### B. Goliath Application Availability Monitor Server

Source	Destination	TCP Port	Traffic	Notes
(Anywhere)	Goliath Server	8282	Inbound	Agent connection. Default port listed, port can be modified.
(Anywhere)	Goliath Server	80	Inbound	Web console connection. Default port listed, port can be modified.
Goliath Server	(Anywhere)	80	Outbound	Web console connection. Default port listed, port can be modified.

## Goliath Antivirus Exclusions/Filters

While not a-typical, we have been exposed to client environments which require antivirus filtering, or exclusion rules needing implemented due to the antivirus software conflicting with the Goliath Intelligent Agent. For that reasoning, we do recommend implementing exclusion rules which consist of the following:

- Directory Exclusions:
  - \Program Files\MonitorIT – This is the install directory of the agent
  - \Program Files (x86)\MonitorIT – This is the install directory of the Goliath Server
- Process Exclusions:
  - RPMAgent.exe – This is the process which is launched by the Agent’s Service
  - RPMCCS.exe – This is the process which is launched by the Server’s Service
  - LogonSimulator.exe – This is the process which is launching the Application Availability Monitor

## Are You Ready to Install?

To complete the installation of Goliath Application Availability Monitor, please ensure you have the following items available and prepared:

1. Goliath installation files (**gpmserver\_setup64.exe**)
2. Your license key (for POC's the key is 'eval')
3. Static IP applied to the server hosting Goliath Performance Monitor
4. .NET 3.5 Installed if using Windows Server 2012 R2 as this is not enabled by default
5. **Confirm all prerequisites listed in section 1 are in place on the Goliath Server and Simulation Endpoint**

## Goliath Server Installation Steps

In the following section, we will install the Goliath Server. **Please note, the Application Availability Monitor integrates into the Goliath Performance Monitor technology. If you already have this product deployed, please skip this section and proceed to the next section.** The Setup program will install the Goliath server on the system you want to be designated as the Server computer.

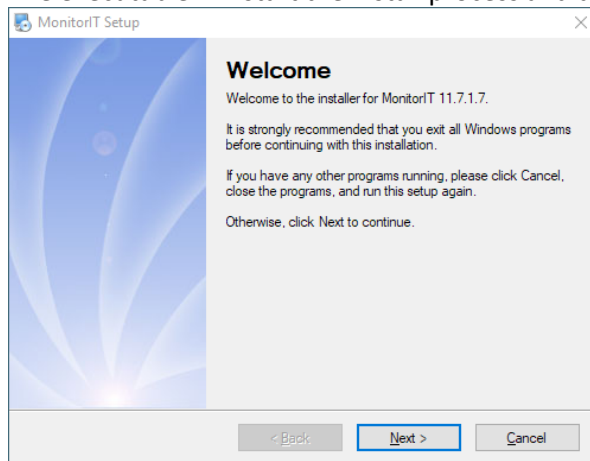


**NOTE:** The default installation for evaluations/POC's is to install Goliath with the embedded SQL Express database. If you are evaluating and would like to use a remote SQL Server, please contact your Account Executive or [support@goliathtechnologies.com](mailto:support@goliathtechnologies.com) to obtain an appropriate license key.

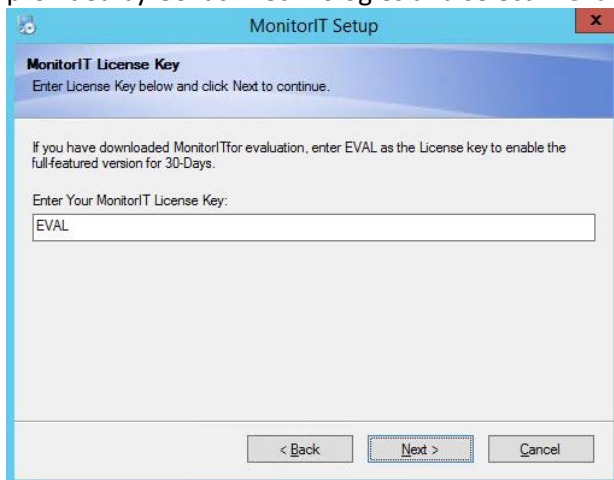
Please be aware at this point, that you will see screens indicating you are about to install **Goliath Performance Monitor**. The Goliath Application Availability Monitor is architecturally integrated into the Goliath Performance Monitor Server. The setup screens will also feature references to Goliath Performance Monitor and MonitorIT, which is correct.

Begin:

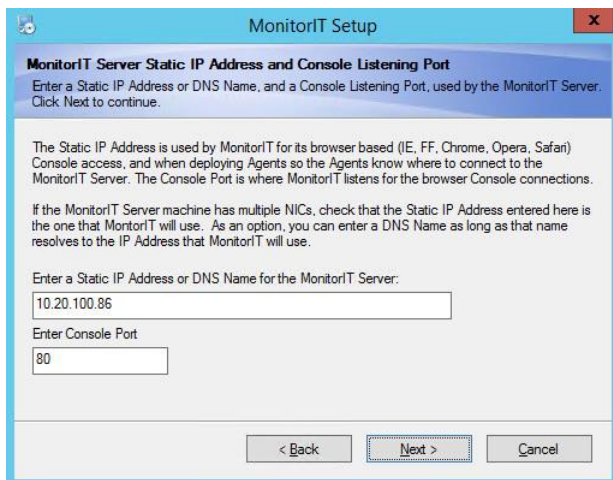
1. Exit all programs
2. To install GPM, run the downloaded executable (**gpmserver\_setup64.exe**)
3. The executable will start the install process and display a Welcome screen



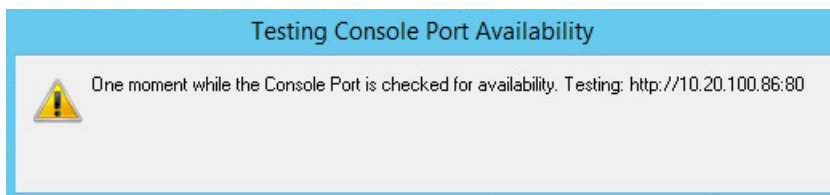
- Click **'Next'** to view the End User License Agreement. Read the agreement and if you agree with the terms, select **'I agree to the terms of this license agreement'** and click **'Next'**. If you do not agree or do not wish to continue, select **'I do not agree to the terms of this license agreement'** and click **'Cancel'** to exit the installer.
- If you have downloaded Goliath for an evaluation, enter **'EVAL'** as the license key to enable the full featured version for 30 days. If this is not an evaluation, enter your Goliath license key provided by Goliath Technologies and select **'Next'** to continue.



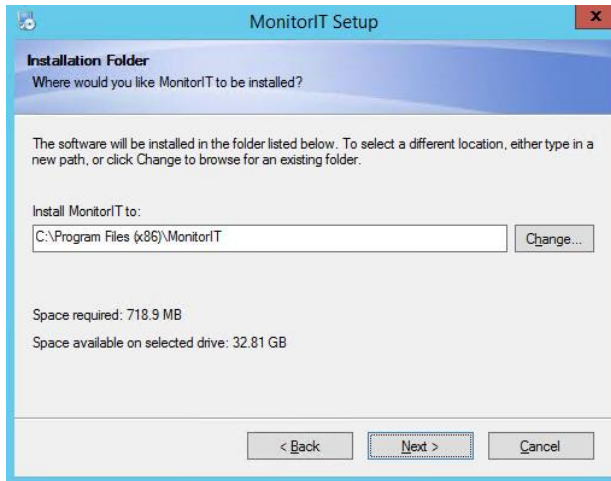
- Please verify and or specify the **'STATIC IP Address'** or **'DNS Name'** for the Goliath Server and Web Interface **'Console Port'**. When finished select **'Next'** to continue.



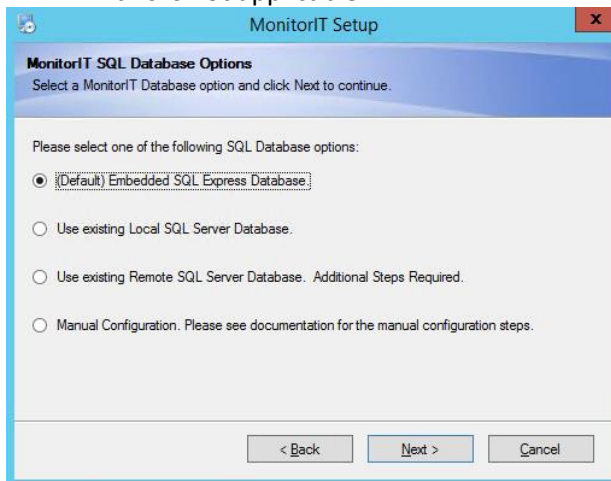
- Once **'Next'** is selected, the wizard will verify that the **Console Port** is available. If it is, Goliath Performance Monitor will then connect to it.



8. The next step lets you select where to install the Goliath Performance Monitor program. When the appropriate location is confirmed or entered, click **'Next'** to continue.
  - a. On 64-bit versions of Windows, the default location is **'C:\Program Files (x86)\MonitorIT'**

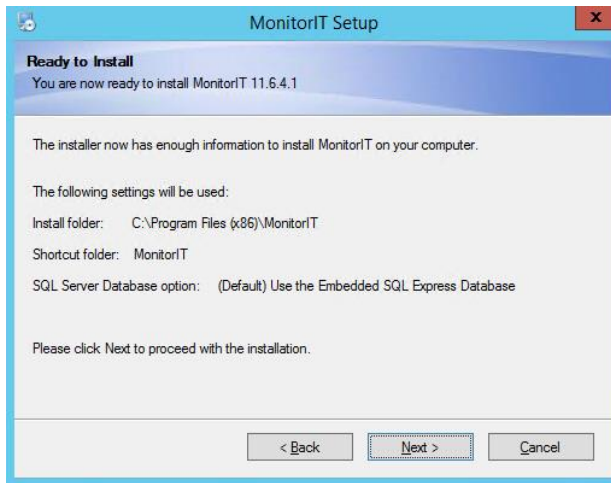


9. If this is a full installation with an **official license key**, you will see the following options for configuring the database settings. Please keep the defaulted SQL Express option select and Click **'Next'**
  - a. If this is an evaluation are you are using the **EVAL key**, please move to the next step as this is not applicable.



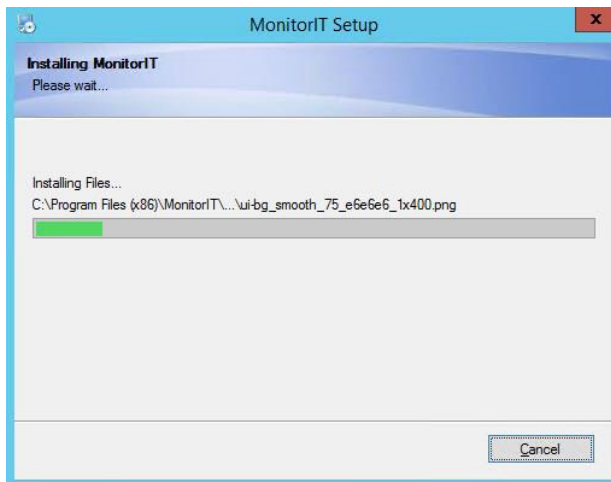
10. Verify that the following installation settings are correct, if so select **'Next'** to proceed with the installation or **'Back'** to make the appropriate modifications.



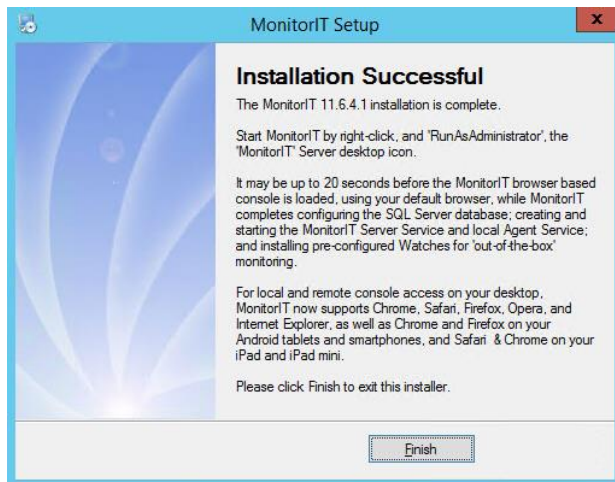


11. During the installation process, a progress bar will show the progress of installing the Goliath Server, as seen in the figure below. You will also see the installation of the SQL Express database installation take place if applicable.

**Please Note:** At some points during the installation your screen may go blank. This is a normal part of the installation process.



12. Once Goliath and SQL Express are successfully installed the install program will display a message that the installation is complete. Click **'Finish'** to exit the install program.



15. You have successfully installed Goliath Application Availability Monitor and can now launch the application via the Desktop icon.

## Post Installation: What's Next?

In the following section, we will discuss the details for configuring the Application Availability Monitor post install. This includes how to prepare your Launch Endpoint to allow simulations to execute, how to configure the simulations, and how to schedule them to run successfully.



**NOTE:** If your instance of Goliath Application Availability Monitor is integrated with Goliath Performance Monitor, for POC purposes the Launch Endpoint can be the same as the Goliath Performance Monitor Server, but for full implementations we do recommend that the instances stay separate.

If you have any questions at any time feel free to reach out to [support@goliathtechnologies.com](mailto:support@goliathtechnologies.com) for assistance.

### C. Prepare the Launch Endpoint(s)

Now that Goliath Application Availability Monitor (GAAM) is installed, next you'll want to configure the Launch Endpoint. The Launch Endpoint is the server, virtual machine, or workstation in which the Application Availability Monitor will be executing the launches from. For the launch to successfully and consistently run, the following items will need to be completed.

Follow the below steps for the endpoint installer. The installer will configure & confirm the following endpoint prerequisites:

- A. Disable UAC at the System level
- B. Install the Goliath Intelligent Agent, if not already installed
- C. Confirm Internet Explorer 11 is installed
- D. VMware Horizon View Client is installed
- E. Start the LogonSimulator.exe process and place it in the startup folder

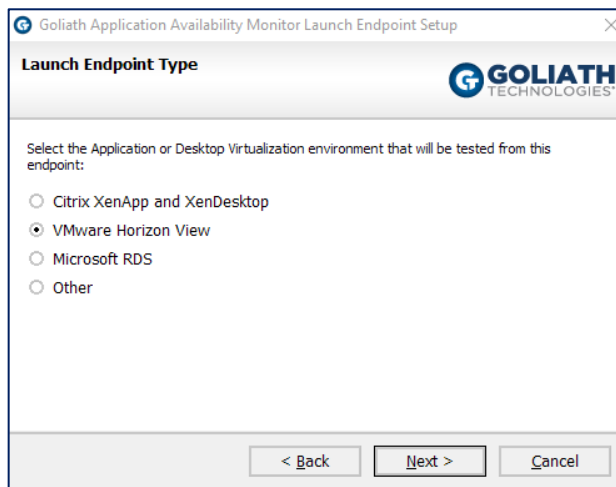
#### Instructions:

- On the Goliath Server, navigate to the 'Bin' folder within the install directory.
  - a. The default location is 'C:\Program Files (x86)\MontiorIT\Bin'
- Locate the '**GAAMEndpoint**' executable
  - a. If the launches will be executing locally on the Goliath Server, launch the executable.
  - b. If the launches will be executing on a remote machine:
    - i. Log into the machine as the Local Windows Service Account created for GAAM
    - ii. Copy over the '**GAAMEndpoint**' executable and launch it

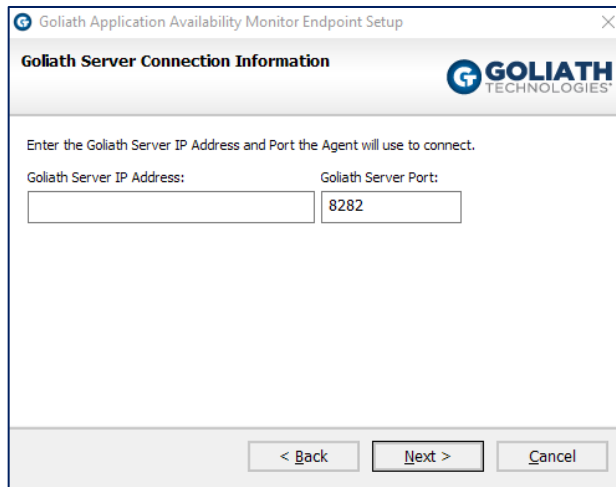
- The executable will start the install process and display a Welcome screen, click **'Next'** to proceed.



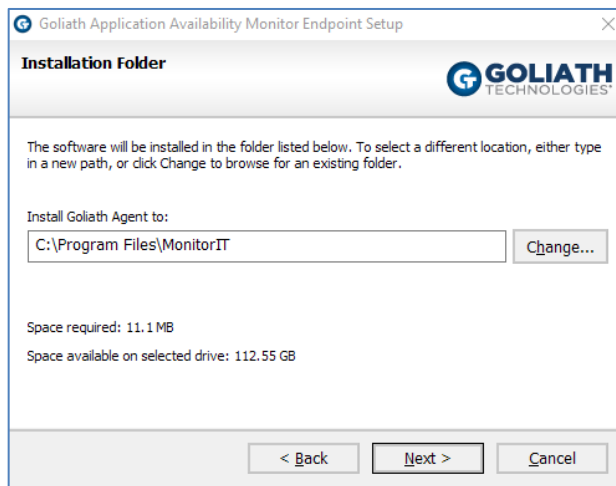
- The installer will prompt for the launch type, Citrix XenApp & XenDesktop is selected by default, choose the option for **'VMware Horizon View'** and then click **'Next'** to proceed



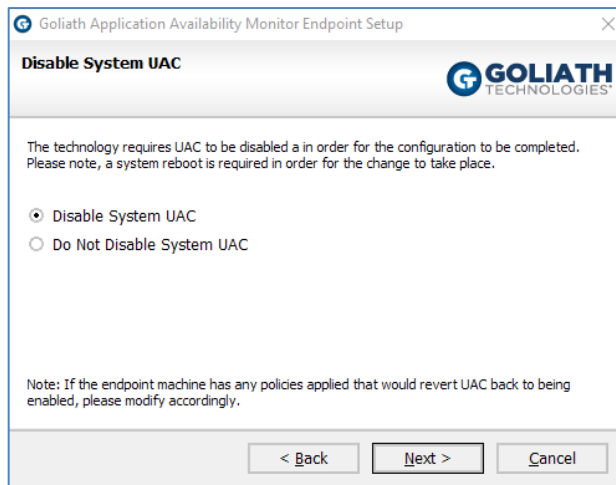
- If the launch endpoint is the Goliath Server, proceed to step 6. If the launch endpoint is a remote machine, enter the **'IP Address'** or **'DNS Name'** for the Goliath Server and the port used for agent communication.



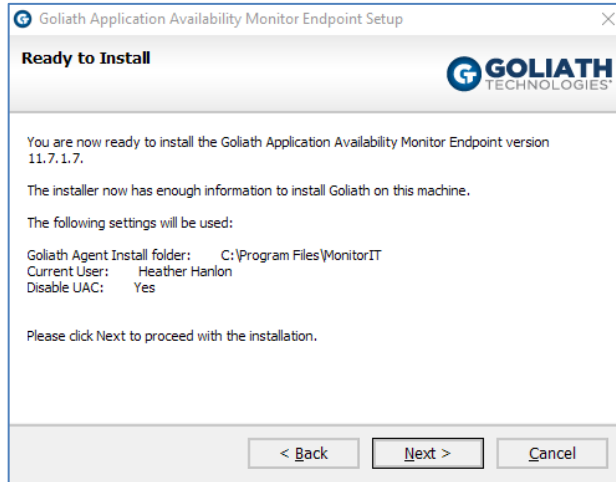
- If the launch endpoint is the Goliath Server, proceed to step 6. If the launch endpoint is a remote machine, you will next be prompted to verify the install directory of the



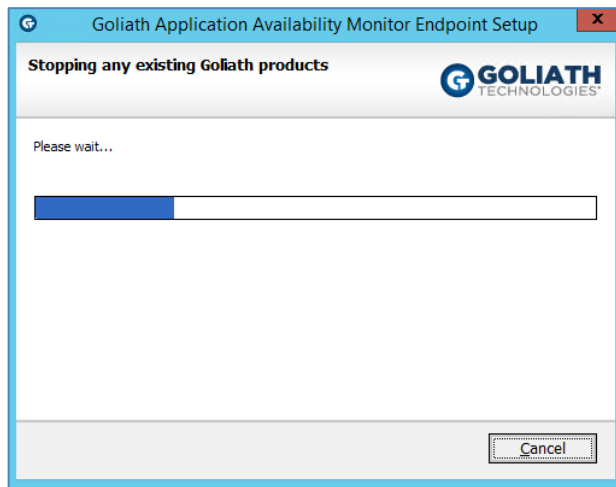
- Next, choose if to disable UAC at the system level via the installer. **Please note, a reboot is required in order for the change to take place. Also, if UAC is not disabled the technology will no function and the configuration will be incomplete.**



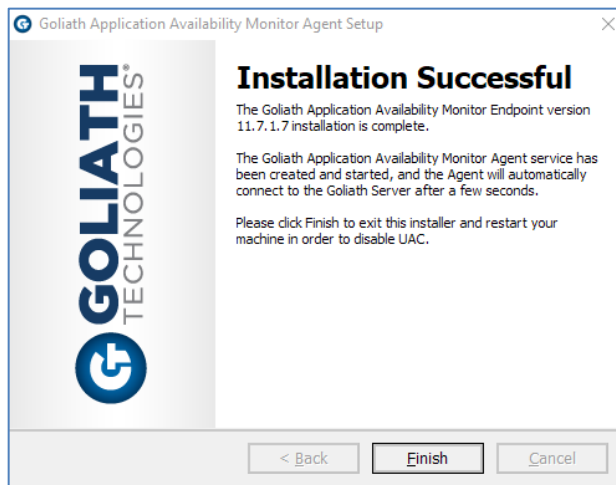
- Verify that the following installation settings are correct, if so select **'Next'** to proceed with the installation or **'Back'** to make the appropriate modifications.



- During the installation process, a progress bar will show the progress of installing the Launch Endpoint, as seen in the figure below.



- Once the Launch Endpoint is successfully installed the install program will display a message that the installation is complete. Click **'Finish'** to exit the install program.



If the Launch Endpoint is not fully installed the install program will display a message that the installation requires further configuration.



This message can if any/all of the below are missing:

- End User Opted out of Disabling UAC
- Internet Explorer version 11 is not found on the machine

This information can be found in the SetupLog located in the install directory. Sample log details:

- Optionally, Goliath recommends configuring Automatic Logons for the Windows Service Account so that if the endpoint machine is ever shut down or restarted, the service account will be logged back in automatically and the launches will be resumed. This can be done by:
  - a. Navigating to the install directory:
    - i. Default location is 'C:\Program Files\MonitorIT'
  - b. Opening the folder labeled 'AutoLogon'
  - c. Launching the 'AutoLogon' executable and following the on-screen prompts

## D. Configure the Launches

Now that the prerequisites are taken care of, in this section we will create the launch conditions, test the launches and cover some common troubleshooting steps. Please note, it is important to do a manual launch of the applications/desktops on the Launch Endpoint as you are configuring the simulations to verify all settings and bypass any prompts.

- **Create a New Launch**
  - Open the Goliath console
  - Navigate to the **'Application Availability'** tab and then choose **'Schedule'**
  - Click **'New'** at the bottom of the page and a pane will appear with multiple tabs at the top
  - Starting with the default **'Schedule'** tab, please enter the appropriate data for each field:

Field Name	Description
Type	Citrix is configured out of the box. Use the drop-down menu to select the option for 'VMware Horizon View'
Name	The unique name to identify the launch
Description	Description of the launch
Site URL	The URL of your Connection Server Portal
Tab/Folder Navigation	If you will be launching a desktop, please enter the word <b>"Desktop"</b> case sensitive without the quotes in this field. If you are launching an application you can leave it blank.
Launch Credentials	VMware View credentials for the GAAM test service account. Please make sure to define the username as <b>domain\user</b> .
Directory Account Name	Please copy the VMware View username into this field.
Launch Endpoint	The machine in which the launches will be executing
Application or Desktop & Validation	Enter the information for the Applications and or Desktops that you would like to launch in the 'Application or Desktop' field and then the Window Title in the 'Validation' field. Click the '+' symbol to complete the add.  <b>Please Note:</b> <ul style="list-style-type: none"><li>• Application and Desktop must be entered the exactly as they appear on the VMware site but are not case sensitive.</li><li>• The window title only needs to be a partial match. If the application does not have a window title, one does not need to be defined.</li><li>• If your window titles often change, the Boolean character of '+' is accepted.</li><li>• If you have an application with a windows logon Eula/disclaimer, you can use the '&gt;' character to separate the 2 window titles (the win logon page and the actual application window).</li><li>• <b>Only one application/desktop can be launched per configuration.</b></li></ul>
Execute Run Every	Frequency in which the launch will execute. It is important to make sure that your scheduled launches have the appropriate time to execute and logoff properly before another one begins. Once this launch is saved Goliath will display the maximum launch time and will display any launch conflicts. The maximum simulation time is the amount of time the simulation would take to execute if all the apps/desktops configured were to fail.



<b>First Launch At</b>	Define the Date & Time in which the first launch will execute. Future launches will execute based on the 'run every' schedule defined above
<b>Launch Duration</b> <i>(optional)</i>	To alert on the launch duration of an app/desktop, the time from app click to GAAM identified successful, enter the threshold.
<b>Severity</b> <i>(optional)</i>	Criticality ranking
<b>Alert 1<sup>st</sup> time after</b> <i>(optional)</i>	To alert have multiple failures, instead of the first, enter the number in which the alert should be sent. I.E., 2 failures in a row.
<b>Notify on Restore</b> <i>(optional)</i>	Check the box to receive an alert notification when a launch changes from a failed state to a success state.

- On the '**Options**' tab, the following settings can be applied if applicable:

Field Name	Description
<b>Launch Timeout</b>	This is the threshold for whether or not the launch is a success or failure. If any stage of the launch process exceeds this threshold the simulation will report back as failed.
<b>Logoff Delay</b>	Once the launch has been deemed a success, the session will delay to logoff after the defined number plus 60 seconds. Therefore, if you'd like to keep the session open for 2 minutes, you'd input 60 into this field.
<b>Prompt Before Login</b>	Check this box if you have a Disclaimer prompt appear before signing into VMware.
<b>After Application or Desktop Launch</b>	Check this box if you have a Eula/disclaimer prompt appear inside your desktop or applications. Please note, this setting requires an active windows session and will not work if the user is disconnected.

The screenshot shows a configuration window with four tabs: 'Schedule', 'Options' (selected), 'Alert Settings', and 'Remediation'. Under the 'Options' tab, there are two sections: 'Launch Options' and 'Disclaimer Options'. In 'Launch Options', 'Launch Timeout' is set to 45 and 'Logoff Delay' is set to 3, both with 'Seconds' dropdown menus. In 'Disclaimer Options', 'Prompt Before Login' is checked and 'After Application or Desktop Launch' is unchecked.

- To configure alert notifications, choose the **'Alert Settings'** tab. Configure the below settings as appropriate
  - **Email** - Please see Appendix E for creating custom email groups & defining the SMTP Server Parameters
    - Select the checkbox to enable email notifications
    - Define a comma delimited list of email addresses or Goliath Email Groups
    - Define the email subject
  - **SNMP Trap** - Please see Appendix E for SNMP Trap prerequisites
    - Select the checkbox to enable SNMP Trap notifications
    - Enter the IP Address or FQDN of the machine that Goliath is sending the Trap notifications to
    - Enter **'1.3.6.1.4.1.50410.9'** into the Enterprise OID field. '50410' is the Goliath designation, that is registered with IANA and represents Goliath Technologies. The proceeding '9' represents the Goliath Application Availability Monitor
    - Specify the unique Trap Number for the notification
    - Define the community string used for SNMP Traps
  - **Syslog**
    - Select the checkbox to enable Syslog notifications
    - Enter the IP Address or FQDN of the machine to which Goliath is sending the notification
    - Using the **'Syslog Facility'** drop down menu, chose the so-called Facility that defines where the Syslog message is originating. This field is used in conjunction with the Severity field to form the syslog message priority code.
    - For the **'Syslog Severity'** drop down menu, chose the so-called Severity that defines the severity level of the Syslog message. This field is used in conjunction with the Facility field to form the syslog message priority code.

- To configure remediation and self-healing actions, select the last tab labeled 'Remediation'. Please follow the link below for full documentation.

- [Remediation Documentation](#)

- **Test the Simulation**

We suggest scheduling a launch to run right away and watching it take place the first time through. This is to validate that the launch is configured properly and to also make sure that nothing interrupts the Application Availability Monitor. Once this has been done one can go back in and configure its normal launch sequence/frequency.

Common examples are:

- Certification Errors

## E. Launch Scheduling

Launch Scheduling is a key part in ensuring that the launches will be successful. There are 2 main factors to follow for scheduling:

- 1) There can't be more than one launch running on the same launch endpoint at the same time.
- 2) The launch user account can't be running on more than one launch endpoint at the same time.

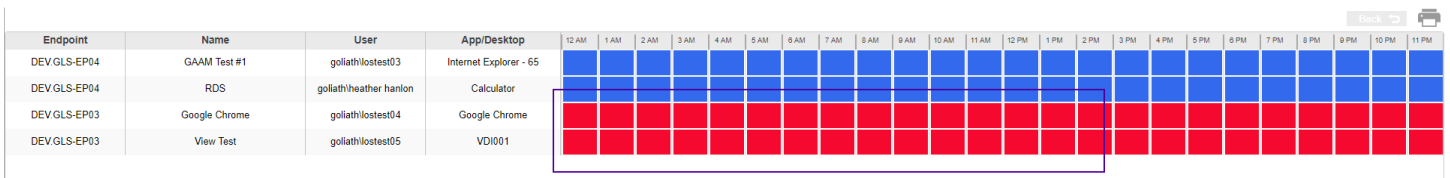
The technology has built in assistance to help one determine if condition #1 is going to happen. When a launch is created, Goliath uses an algorithm to determine the maximum amount of time that it would take the launch to execute (max run time). This is maximum run time is the time from launch start to finish if there was a failure for all apps/desktops within the launch. The algorithm takes into consideration:

- The number of apps/desktops being launched
- The launch timeout threshold
- The Web logoff delay

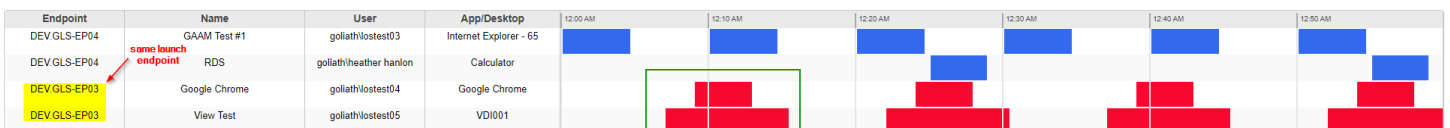
Once a new launch is created and saved, on the 'Schedule' page one will see the launch details at the bottom of the page. With the launch details, there is a column names 'Status'. The status column will have a green check box if the launch has no conflicts with another previously scheduled launch. However, if a conflict is going to occurring, the status icon will change to a red 'X' for the multiple launches that will be affected. Please note, suspended launches are still taken into consideration.

Schedule Launch								Status
Name	Application/Desktop	End Point	Frequency	Next Run Time	Max Run Time	User Account		
GAAM Test #1	Internet Explorer - 65	DEV.GLS-EP04	10 Minutes	Oct 18 2017 12:40:00	4 mins 48 secs	goliath\lostest03	✓	
RDS	Calculator	DEV.GLS-EP04	30 Minutes	Oct 18 2017 12:55:00	4 mins 3 secs	goliath\heather hanlon	✓	
Google Chrome	Google Chrome	DEV.GLS-EP03	15 Minutes	Oct 18 2017 12:39:00	4 mins 3 secs	goliath\lostest04	✗	
View Test	VDI001	DEV.GLS-EP03	15 Minutes	Suspended	8 mins 35 secs	goliath\lostest05	✗	

In addition to the launch schedule status showing a red status icon, the grid at the top of the schedule page will also change from blue to red.



The purpose of the grid at the top of the schedule page is to assist one with resolving a launch conflict. The grid at the top of the page is displaying a 24-hour time line. The boxes that change from blue to red are indicating that there is a conflict within that hour time period. If you click on one of the boxes, it will drill down into a 1-hour period which will display the exact time line.



Looking at the above screenshot, one can see that 'Google Chrome' is launch every 15 mins and has a duration of 4 mins and 3 seconds, where 'VDI001' is also launch every 15 mins, but has a duration of 8 mins and 35 seconds. One can also visibility identify that they conflict from 3:09- 3:13. To resolve the conflict, one should change the start of the Google Chrome launch from the 9-minute hour mark to the top of the hour, where there is an opening. In making that adjustment the launches now look like this and no longer overlap:



Also, if one hovers over the boxes on the grid a tool tip will appear that display the start and end time of the launch.

## F. Understanding the Launch Results

Once the launches have completed, the GAAM Analysis includes all the results for the most recent simulations, as well as a historical lookback to previous launches. Please note, launch details can also be reported on.

- **Navigating to the Analysis page**
  1. Open the Goliath Console
  2. Click the 'Application Availability Monitor' tab
  3. Select the option for 'Analysis'
  
- **Analyzing/Understanding the Simulation Results**
  - Successful launches will appear in green and failed simulations will appear in red in the 'Availability' Column.
  - You can drill into the simulation details by selecting the button in the 'Details' column
  - Launch Details Information:

Message	Description
<b>WARNING: Unable to confirm that session launched for Resource = '___' and Title= '___'</b>	This error is the result of the Logon Simulator being unable to confirm that the session has been successfully launched. Once the simulator clicks on the application/desktop, next the simulation will confirm that the session did indeed launch by using the defined window title for the application/desktop. If any windows open instead of the application, ie an error prompt, the window title will be included the lines above this message.
<b>Try#__ Waiting</b>	This is an informational message, not an error message. With the simulation configuration process, a 'Launch Timeout' value is defined. This value is the threshold that is used for the stages of the Logon Simulation. If any stage of the simulation process, ie loading the page, signing in, finding the application, etc, exceeds the threshold the simulation is deemed as a failure. The 'Try' messages simply countdown how long it takes each stage to execute. If the 'try' reaches the value of the launch timeout a failure will occur.
<b>Unable to Start the Logon Simulator Powershell Command and Script for App=.....</b>	This message entails that the Logon Simulator was unable to start. Please check and make sure all prerequisites are in place as well as that all default fields are entered into the configuration. This error will most often occur when the test user has been logged out and the 'LogonSimulator.exe' is no

	longer running.
Blank	This means that the simulation could not start due to an invalid or missing parameter. Please check and make sure all required fields in the simulation rule are filled in appropriately. Also, please make sure that User Account Control is turned off on the simulation endpoint. This can be confirmed by opening a command prompt (with normal privileges) and checking the window name. If it starts with "Administrator:", UAC is off.

## Appendix

### A. Agent Install

1. Start up and sign into the Gold Image
2. Open the web browser
3. Navigate to <http://nn.nn.nn.nn:##/InstallAgent.exe> where **nn.nn.nn.nn** is the IP Address or FQDN of the Goliath Server and **##** is the web port for the Goliath Server. If you are unsure of the IP Address or FQDN of the Goliath Server, please see the instructions in [Appendix B](#) on how to obtain it. If you are unsure of the web port for the Goliath Server, please see the instructions in [Appendix D](#) on how to obtain it.

### B. Determining the Goliath Server IP Address/FQDN

1. Sign into the Goliath Server
2. Navigate to the install directory of Goliath Performance Monitor. The default location is **C:\Program Files (x86)\MonitorIT**
3. Open the Bin directory
4. Launch '**MonitorITCFU.exe**' as administrator
5. Within the application, go to File and Open
6. Navigate to the Bin directory of the Goliath Performance Monitor install directory. The default location is **C:\Program Files (x86)\MonitorIT\Bin**
7. Select the file named '**default.btc**' to open
8. The Goliath Server IP address or FQDN is in the '**Server IP Addr**' field

### C. Determining the Goliath Agent Port

1. Sign into the Goliath Server
2. Navigate to the install directory of Goliath Performance Monitor. The default location is **C:\Program Files (x86)\MonitorIT**
3. Open the Bin directory
4. Launch '**MonitorITCFU.exe**' as administrator
5. Within the application, go to File and Open
6. Navigate to the Bin directory of the Goliath Performance Monitor install directory. The default location is **C:\Program Files (x86)\MonitorIT\Bin**
7. Select the file named '**default.btc**' to open
8. The Goliath Agent port is in the '**Agent Port**' field.

### D. Determining the Goliath Web Port

1. Sign into the Goliath Server
2. Navigate to the install directory of Goliath Performance Monitor. The default location is **C:\Program Files (x86)\MonitorIT**
3. Open the Bin directory

4. Launch '**MonitorITCFU.exe**' as administrator
5. Within the application, go to File and Open
6. Navigate to the Bin directory of the Goliath Performance Monitor install directory. The default location is **C:\Program Files (x86)\MonitorIT\Bin**
7. Select the file named '**default.btc**' to open
8. The Goliath Agent port is in the '**Web Port**' field.

## E. Alert Notification Information

This section will cover the additional items related to alert notifications.

1. Email – Configure SMTP Server Parameters
  - In the technology, select the 'Settings' Link in the top right-hand corner
  - In the 'User & Email' section, choose the option for 'Email SMTP Setup'
  - A pop-up window will open, on this page you will define the following:
    - Specify the **SMTP server address** for where emails should be sent for transmission. This can be an IP address or a domain name. The default port for the SMTP server is 25, to override this default port, append a colon character followed by the override port number. For example, to use port 26 versus the default port 25, "192.168.1.100:26" or "mail:26".
    - Specify the **originating Email address** in the format of *name@mydomain.com*
    - If your SMTP Server requires authentication, check the box at the bottom of the page and enter the username and password credentials for the originating email address in the two fields. The username must be in the format of *name@mydomain.com*
  - When finished, click the 'OK' button. The Goliath server will then validate a connection to the SMTP server.
  - This information is then saved Globally and will not need to be defined again.
  - Please note, if you are using Office 365 or another hosted mail provider please email [support@goliathtechnologies.com](mailto:support@goliathtechnologies.com) to receive the appropriate instructions as the configuration is slightly different.
2. Email – Create Custom Email Groups
  - In the technology, select the 'Settings' Link in the top right-hand corner
  - In the 'User & Email' section, choose the option for 'Email Group Management'
  - From the Create and Manage Email Groups pop-up, you will see a drop-down list of the current email groups configured. If there are no email groups configured the drop-down will be blank. One can:
    - To **edit** an existing email group, click the 'Manage' button. A new window will appear, use the dropdown list at the top to choose the group you would like to edit and then click the 'Edit' button at the bottom of the page. From there one can define the group name and add in the recipients.
    - To **create** a new email group, click the 'New' button at the bottom of the page. From there one can then add/remove emails/phone numbers



3. SNMP Traps – Prerequisites
  - On the Goliath Server, ensure that the SNMP Service Feature is installed. If it is not, please install it using **'Add Roles and Features'** in Server Manager
  - Once the SNMP Service is installed ensure that it is running
  - Right click the service and choose **'Properties'**
  - Navigate to the **'Security'** tab, on this tab verify that:
    - The **'Send Authentication Trap'** checkbox is enabled
    - In the 'accepted community names' field that the community string has been added and has at least 'read only' rights
  - Next, navigate to the **'Traps'** tab, on this tab verify that:
    - The community string is defined in the **'Community Name'** drop-down list
    - The IP Address or FQDN of the machine that Goliath is sending the Trap notifications to is added into the **'Trap Destinations'** field

## F. Reporting

To see historical launch results, there is a report that can be generated. The report will list all the launches that succeeded or failed and will also contain a copy of all the logs in collapsible frames. These reports can be scheduled or ran on-demand.

### Schedule a GAAM Report:

1. Click the **'Report'** tab and then select the **'Schedule'** submenu
2. Once the Schedule page is fully loaded, choose the **'Alert Analysis'** report type
3. In the **'Report Name/Notes field'**, enter **'Goliath Application Availability Monitor Report'**

4. Select the **'Choose Alert Types & Servers/Devices'** button
5. A **'Specify Report Parameters'** page will appear, check the box for **'AdvancedWatch & LOS Alerts'**
  - a. By default, the report will include the information for all the Logon Simulations created. To only report on one simulation, click the **'Select'** button and choose the simulations you want to report on.
6. Click **'OK'** to approve the report parameters
7. Select the time the report should be run, how often it will run, and the historical period it should analyze.

### Run the GAAM Report On-demand:

1. Click the **'Report'** tab and then select the **'View'** submenu
2. Once the page is fully loaded, choose the **'Alert Analysis'** report type highlighted in blue
3. Click the **'Analyze'** button at the bottom of the page
4. A **'Specify Timeframe for Alert Notifications'** page will appear
5. Choose how many days/hours that you'd like to report on and then check the box for **'AdvancedWatch & LOS Alerts'**
  - a. By default, the report will include the information for all the launches created. To only report on one simulation, click the **'Select'** button and choose the simulations you want to report on.
6. Click **'OK'** to approve the report parameters and run the report
  - a. Please note that the report generation process is tied to this page. If you navigate away from the page or click any other buttons on the page it will break the report process.
7. When the report is completed, select the report and then click the **'Status'** tab to view the results.

## G. Manual Endpoint Configuration

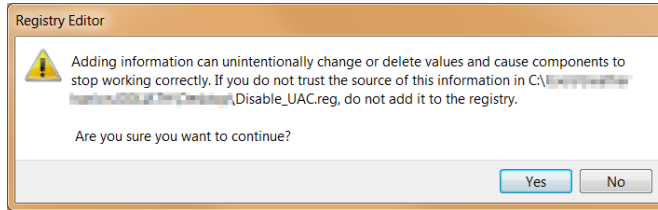
### A. Windows Account that is always in a Logged on or Disconnected state:

- Since the Logon Simulator is creating real Citrix sessions, you will need a local or domain service account that is logged into the endpoint at all times, either logged in or disconnected. Please create this service account and **log in with it before continuing.**
- We suggest enabling Automatic logons for this account so that if the machine is rebooted the user will be logged in right away. Here is a link to a Windows Utility that will allow you to accomplish this <https://technet.microsoft.com/en-us/sysinternals/autologon.aspx>

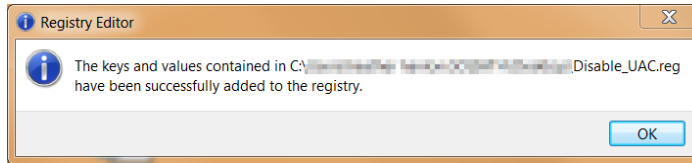
### B. UAC Disabled at the Kernel/System level:

- While the simulations are launching, the technology is making a number of system level call. In order to avoid unexpected prompt, UAC must be disabled at the system level (not through Control Panel). To accomplish this, Goliath includes a registry file to update the system. This file **requires a machine reboot.** Below are instructions:
  - On the Goliath Server, open Windows File Explorer and navigate to **C:\Program Files (x86)\MonitorIT\Tools**
  - Locate the **Disable\_UAC.reg** file and copy it over to the simulation endpoint(s)

- Double click to run the file
- A warning will appear for changing the registry, click **'Yes'** to continue



- A confirmation window will appear, click **'OK'**



- Reboot the simulation endpoint

### C. Goliath Agent:

- The Goliath Agent is used to connect to the main Goliath server in order to run the simulations at their scheduled time, as well as report the data back to the console. If your simulation is the same as the goliath server there is no need to install the agent as it is deployed by default. Otherwise, please follow the instructions below for installing the agent.
  - On the simulation endpoint, enter in the URL for the goliath console and append '\installagent.exe' to the end. For example, <http://10.20.10.10:8080/installagent.exe>
  - An agent installer will download, when ready run the installer.
  - When prompted enter the IP address or FQDN of the Goliath Server
  - The default agent port is 8282, if you are using a different port, please define your agent communication port in the 'server port' field.
  - Click next to install the agent
  - When the installation is complete click finish
  - After a minute, open the Goliath Console and navigate to the inventory page to confirm that the agent is connecting in to the product.

### D. VMware Horizon View Client:

- Since the Logon Simulator is creating real VMware View sessions, the VMware Horizon View Client is required in order to execute the simulations. Below are instructions on how to determine if the VMware Horizon View Client is installed.
  - Open Windows Control Panel
  - In the top right hand corner, change the 'View By' option to be 'Small Icons'
  - Select 'Programs and Features'
  - Sort by Name and confirm if the VMware Horizon Client is installed. If not, please install it before continuing.

#### E. LogonSimulator.exe is running:

- The LogonSimulator.exe is the application that works with the Goliath Agent in order to execute the simulation at their scheduled time. This application functions as a background process that must be running in order for the simulations to execute. Please follow the below instructions for obtaining and executing the application.
  - On the simulation endpoint, open the Start Menu and run 'shell:startup'
  - On the Goliath Server, navigate to the Bin folder inside the install directory
    - The default location is C:\Program Files (x86)\MonitorIT\Bin
  - Copy the LogonSimulator.exe file and paste it into the Startup folder on the simulation endpoint
  - Double click to run the file, this file runs in the background so you will not see anything happen. Use Task Manager to confirm there is only 1 instance running
    - *If there are security prompts when you run it the first time, please uncheck the box to check the executable in the future, to ensure successful starts of LogonSimualtor.exe following restarts of the simulation endpoint.*