Goliath Application Availability Monitor for Citrix Installation Guide



Goliath Application Availability Monitor Proof of Concept Limitations

Goliath Application Availability Monitor Proof of Concepts (POC) will be limited to launching a single Citrix XenApp or XenDesktop 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:

<u>Sales</u> Email: <u>sales@goliathtechnologies.com</u> Phone: 1-855-465-4284

Support Email: support@goliathtechnologies.com Phone: 1-855-465-4282

http://www.goliathtechnologies.com

 Goliath Application Availability Monitor Installation Guide

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Goliath Application Availability Monitor for Citrix 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.

dble 1 Golidari Application Avail	
Component	Requirement
Goliath Server	Virtual Machine or Physical Server
(please disregard if also using	Windows Server 2008 R2 – 2016 64 bit
Goliath Performance Monitor)	.NET 3.5 Framework
	Static IP address
	Minimum of 4 vCPU
	Minimum of 8 GB RAM
	Minimum of 25 GB Disk Available
	Dependencies:
	 If you are planning to launch XenApp/XenDesktop 7.X sessions,
	an account with Full Citrix Admin Rights is required in order for
	the technology to logoff of the simulated sessions.
	 PowerShell 3.0
	 Internet Explorer 11
Launch Endpoint	OS: Windows Server 2008 R2 – 2016 64 bit, Windows 7-10
	Resources: Minimum of 2vCPU and 2 GB RAM
	Dependency: Goliath Agent deployed
	Web Browser: Internet Explorer 11
	Citrix Receiver: version 4 to current
	User Account Control: Disabled at the System level, not through Control
	Panel
	IE Enhanced Security: Disabled for Administrators and Users
	Trusted Sites: Add Citrix Portal to whitelist for trusted sites and the
	security zone set to "Low" to bypass file downloads
	Citrix Test Account: Dedicated Citrix test account with rights to
	applications or desktops to be launched
	Windows Account: Dedicated account that must be logged
	in/disconnected to the endpoint at all times. This can be the same as the
	Citrix account, especially if you're automating logons using integrated
	Windows authentication.
Firewall	Goliath Server
	HTTPS 443/TCP 80* opened inbound and outbound for web console
	connection
	TCP 8282* opened inbound for agent connection to agent location
	Goliath Intelligent Agent
	TCP 8282* opened outbound for agent connection to the Goliath Server
	* Default ports listed and can be modified
	שבומעור אטרנא וואנכע מווע כמו אב וווטעווופע.

Table 1 - Goliath Application Availability Monitor for Citrix System Requirements

Goliath Service Accounts

Infrastructure Component	Rights	Notes
Launch Endpoint	Local Admin Rights	This can be a local account or a domain account
Full 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.
Citrix XenApp / XenDesktop	Full Citrix Admin & local	Full admin rights within Citrix Studio and local admin
7.X	admin	rights on the delivery controller
Citrix Launch Account	Access to apps and	Needs rights to launch the applications and desktops
	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

(Includes Citrix Zone Data Collector/Delivery Controllers and Launch Endpoint)

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

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
 - \circ RPMCCS.exe This is the process which is launched by the Server's Service
 - LogonSimulator.exe This is the process which is launching the Logon Simulator

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 file (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 Launch Endpoint

Goliath Application Availability Monitor 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 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

🌄 MonitorIT Setup	\times
	Welcome Welcome to the installer for MonitorIT 11.7.1.7. It is strongly recommended that you exit all Windows programs before continuing with this installation. If you have any other programs running, please click Cancel, close the programs, and run this setup again. Otherwise, click Next to continue.
	< Back Next > Cancel

- 4. 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.
- 5. 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.

5	MonitorIT Setup	x
MonitorIT Lice Enter License H	n se Key ay below and click Next to continue.	
If you have dow full-featured ver	nloaded MonitorITfor evaluation, enter EVAL as the License key to enable the ion for 30-Days.	
EVAL.	un license rey.	
	< Back Next > Cancel	

6. 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.

Enter a Static IF Click Next to co	Address or DNS Name, and a Console Listening Port, used by the MonitoriT Servertinue.
The Static IP A Console access MonitorIT Serve	dress is used by MonitorIT for its browser based (IE, FF, Chrome, Opera, Safari) and when deploying Agents so the Agents know where to connect to the . The Console Port is where MonitorIT listens for the browser Console connections
If the MonitorIT the one that Mo resolves to the I Enter a Static IF	Server machine has multiple NICs, check that the Static IP Address entered here is torT will use. As an option, you can enter a DNS Name as long as that name ? Address that MonitorIT will use. Address or DNS Name for the MonitorIT Server.
If the MonitorIT the one that Mo resolves to the I Enter a Static IF 10.20.100.86	Server machine has multiple NICs, check that the Static IP Address entered here is torIT will use. As an option, you can enter a DNS Name as long as that name ? Address that MonitorIT will use. Address or DNS Name for the MonitorIT Server:
If the MonitorIT the one that Mo resolves to the I Enter a Static IF 10.20.100.86 Enter Console F	Server machine has multiple NICs, check that the Static IP Address entered here is torIT mil use. As an option, you can enter a DNS Name as long as that name ? Address that MonitorIT will use. Address or DNS Name for the MonitorIT Server:
If the MonitorIT the one that Mo resolves to the I Enter a Static IF 10.20.100.86 Enter Console F 80	Server machine has multiple NICs, check that the Static IP Address entered here is torIT mil use. As an option, you can enter a DNS Name as long as that name P Address that MonitorIT will use. Address or DNS Name for the MonitorIT Server:
If the MonitorIT the one that Mo resolves to the I Enter a Static IF 10.20.100.86 Enter Console F 80	Server machine has multiple NICs, check that the Static IP Address entered here is torIT mil use. As an option, you can enter a DNS Name as long as that name P Address that MonitorIT will use. Address or DNS Name for the MonitorIT Server:

7. 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'

0	MonitorIT Setup
Installation Where wou	n Folder Id you like MonitorIT to be installed?
The softwa new path, o Install Moni	re will be installed in the folder listed below. To select a different location, either type in a r click Change to browse for an existing folder.
C:\Program	Files (x86)\MonitorIT Change
Space requ Space avai	ired: 718.9 MB lable on selected drive: 32.81 GB
	< Back Next > Cancel

- 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.

5	MonitorIT Setup
Ready to Install	
You are now ready	to install Monitori I 11.6.4.1
The installer now h	as enough information to install MonitorIT on your computer.
The following settin	gs will be used:
Install folder: C	:\Program Files (x86)\MonitorIT
Shortcut folder: M	lonitor T
SQL Server Databa	use option: (Default) Use the Embedded SQL Express Database
Please click Next to	proceed with the installation.

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.

5	MonitorIT Setup	x
Installing Mon	torIT	
Please wait		
Installing Files		
C:\Program Files	(x86)\MonitorIT_\uiba_smooth_75_e6e6e6_1x400.png	
	(key/member) ar bg_meetin_re_eeee_ix-re_prig	
		[/·····
		Cancel

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.

5	MonitorIT Setup
	Installation Successful The MonitorIT 11.6.4.1 installation is complete.
	Start MonitorIT by right-click, and 'RunAsAdministrator', the 'MonitorIT' Server desktop icon.
	It may be up to 20 seconds before the MonitorIT browser based console is loaded, using your default browser, while MonitorIT completes configuring the SQL Server database; creating and starting the MonitorIT Server Service and local Agent Service; and installing pre-configured Watches for 'out-of-the-box' monitoring.
	For local and remote console access on your desktop, MonitorIT now supports Chrome, Safari, Firefox, Opera, and Internet Explorer, as well as Chrome and Firefox on your Android tablets and smartphones, and Safari & Chrome on your iPad and iPad mini.
	Please click Finish to exit this installer.
	Enish

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 <u>support@goliathtechnologies.com</u> for assistance.

A. 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. **Do not configure the launch endpoint on a machine were the Citrix VDA is installed.**

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

- Disable UAC at the System level
- Install the Goliath Intelligent Agent, if not already installed
- Confirm Internet Explorer 11 is installed
- Confirm Citrix Receiver is installed
- 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.

Goliath Application Availab	ility Monitor Endpoint Setup	×
G GOLIATH TECHNOLOGIES	Welcome to the installer for the Goliath Application Availability Monitor Endpoint Setup, Version 11.7.1.7 This will install the Goliath Intelligent Agent and application files. Click Next to continue.	r
	< <u>B</u> ack <u>Next > Cancel</u>]

- The installer will prompt for the launch type, Citrix XenApp & XenDesktop is selected by default, click **'Next'** to proceed
- If the launch endpoint is the Goliath Server, <u>proceed to step 6</u>. 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.

Goliath Application Availability Monitor Endpoint Setup × Goliath Server Connection Information GGEOLIATH				
Enter the Goliath Server IP Address	and Port the Agent will use to connect.			
Goliath Server IP Address:	Goliath Server Port:			
	8282			
L				
	< Back Next >	Cancel		

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

Goliath Application Availability Monitor Endpoint Setup	×
Installation Folder	
The software will be installed in the folder listed below. To select a dif in a new path, or dick Change to browse for an existing folder.	fferent location, either type
Install Goliath Agent to:	
C:\Program Files\MonitorIT	C <u>h</u> ange
Space required: 11.1 MB	
Space available on selected drive: 112.55 GB	
< <u>B</u> ack <u>N</u> ext	> <u>C</u> ancel

• 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 <u>not</u> disabled the technology will no function and the configuration will be incomplete.

G Goliath Application Availability Monitor Endpoint Setup	×
Disable System UAC	INOLOGIES*
The technology requires UAC to be disabled a in order for the configuration to be on Please note, a system reboot is required in order for the change to take place.	ompleted.
 Disable System UAC 	
O Do Not Disable System UAC	
Note: If the endpoint machine has any policies applied that would revert UAC back enabled, please modify accordingly.	to being
< <u>B</u> ack <u>N</u> ext >	<u>C</u> ancel

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

Goliath Application Availability Monitor Endpoint Setup	\times
Ready to Install	DLIATH
You are now ready to install the Goliath Application Availability Monitor Endpoint v 11.7.1.7.	ersion
The installer now has enough information to install Goliath on this machine.	
The following settings will be used:	
Goliath Agent Install folder: C:\Program Files\MonitorIT Current User: Heather Hanlon Disable UAC: Yes	
Please dick Next to proceed with the installation.	
< <u>B</u> ack <u>N</u> ext >	<u>C</u> ancel

• During the installation process, a progress bar will show the progress of installing the Launch

Endpoint, as seen in the figure below.

G	Goliath Application Availability	Monitor Endpoint Setup
Stopp	ing any existing Goliath products	
Please	wait	
		······
		Cancel

• 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.

G Goliath Application Availability Monitor Agent Setup				
G GOLIATH TECHNOLOGIES	Installation Successful The Goliath Application Availability Monitor Endpoint version 1.7.1.7 installation is complete. The Goliath Application Availability Monitor Agent service ha been created and started, and the Agent will automatically connect to the Goliath Server after a few seconds.	S		
	< <u>B</u> ack <u>F</u> inish <u>C</u> ancel			

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

🛃 Go	oliath Applicati	on Availability Monitor Endpoint Setup	x
	TECHNOLOGIES'	Installer Finished - Further Configuration Required The Goliath Application Availability Monitor version 11.7.1.5 installer has completed. One or more prerequisites are not applied. Please see the SetupLog in the product folder for further information. Please dick Finish to exit this installer.	
		< <u>B</u> ack <u>Finish</u> <u>C</u> ancel]

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

- End User Opted out of Disabling UAC
- Citrix Receiver is not found on the machine
- 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:

 [08/22/2017 10:49:41] Success
 Display screen: IncompleteInstall

 [08/22/2017 10:49:41] Success
 AutoLogon configured

 [08/22/2017 10:49:41] Success
 UAC is already disabled

 [08/22/2017 10:49:41] WARNING:
 Citrix Receiver not detected

- Lastly, the Citrix Site that will be launched need to be added to Internet Explorers 'Trusted Sites'. This is required because when GAAM executes, it assumes that the ICA file will be opened automatically. To ensure this process, Trusted Sites settings must be lowered and the Citrix address must be added to trusted sites. Please see the following instructions for modifying the settings.
 - i. Open Internet Explorer
 - ii. Click the gear icon and select the menu option for 'Internet Options'
 - iii. Navigate to the 'Security' tab, and select the 'Trusted Sites' zone
 - iv. Click the 'Sites' button, add your Citrix portal address and click close when finished
 - v. Under 'Security level for this zone' move the slider down to the lowest possible setting
 - vi. Lastly, click 'Apply' and then 'OK' to save these settings
- 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

B. Prepare the Citrix Environment

In the following section, we will discuss the details for preparing your Citrix Environment for the simulations. Since GAAM is creating real Citrix sessions, we'll need to ensure that the sessions are fully logged off after each launch. An agent will need to be deployed to your Citrix XenApp ZDC/DC or XenDesktop DDC/DC for Goliath to execute the logoff. This ensures subsequent sessions successfully launch completely, instead of simply reconnecting to existing sessions.

For Citrix versions 7.0 and newer, you will an account that has Citrix Full Admin Rights to complete the logoff.

- 1. Open the Goliath Console
- 2. Navigate to the Configure tab, and select the 'Inventory' sub menu
- 3. Click the **'New'** button at the bottom of the page. A configuration pane will appear, enter in the hostname and IP address for the ZDC/DC.
 - a. If you are also using Goliath Performance Monitor and there is already an agent on the ZDC/DC, please proceed to **step 13**.
- 4. Click 'Save'
- 5. Repeat steps 3-4 to add all additional ZDC/DC's. Please note, only 1 per environment is necessary.
- 6. To now deploy an agent to those delivery controllers, click the **'Manage Agents'** button at the bottom of the page
- 7. When the **'Manage Agent'** screen appears, select the ZDC/DC(s) that you would like to deploy an agent to
- 8. Click the **'Deployment Settings'** button and enter one-time local administrator credentials. These credentials are only used to copy over and run the install files and **are not saved** in the database
- 9. Click the 'Install/Update Agents' button at the bottom of the screen to begin the agent installation.
 - a. You will see a prompt warning you to enter credentials if this is the 1st agent deployment, click ok the bypass and begin the agent installation
- 10. Depending on the number of Agents that are being installed, the process may take a few minutes to complete.
 - a. You will see green checkboxes appear as the agent installation succeeds
- Once all agents have been installed, you will receive a prompt that the installation is complete. Click the 'Close' button at the bottom of the screen to return to the inventory page.
- 12. Once on the Inventory screen, you can confirm that the agents are connecting into the product by looking at the **'stat'** column and identifying a green box. This could process could take about 1-3 minutes, you'll need to refresh the page as well.
 - a. Please note, if you do not see any icon in the **'Stat'** column after 5 minutes, confirm that the Goliath Server is accepting inbound TCP communication on all firewall levels (Domain, public, private) and that the server where the agent is installed is allowing outbound TCP communication for all firewall levels.
- 13. Once the agent for the ZDC/DC(s) are connected, select the inventory entry and click the 'Edit' button at the bottom of the page.
- 14. When the edit pane is open for the ZDC/DC, under the **'Enable Citrix XenApp and XenDesktop Monitoring Options'** section and check the boxes for **'Enable Logon Simulation Logoffs'**
 - a. If this is a Citrix 7.X Delivery Controller, please define a user account that has Full Citrix

Admin Rights. This is required for the application/desktop logoff to occur.

Server/Device Name:	DEV.SVR-XDDC03		(t)
Primary IP Address:	Add Re	emove	
Description:	Auto Registered via Agent Logon.		F
Member of Primary Group:	Auto Register Group	æ	
Member of Windows	GOLIATH		
Enter Citrix Admini User Name	strative Credentials to Start Monitoring (Required for Version Passw	ns 7.x Only): vord:	
Enter Citrix Admini User Name: Enable Citrix D	strative Credentials to Start Monitoring (Required for Version Passw Delivery Group/Farm Inventory Auto-Update Simulation Logofs	ns 7.x Only): vord:	
Enter Citrix Admini User Name :Enable Citrix D :Enable Logon Enable Master Agent	strative Credentials to Start Monitoring (Required for Version Passw betwery Group/Farm Inventory Auto-Update Simulation Logofs L Capabilities for Remote Monitoring of: www.and RUK-2012 (2014)	ns 7.x Only): vord:	
Enter Citrix Admini User Name Enable Citrix D Enable Master Agent SNMP Trap/On Estate	etrative Credentials to Start Monitoring (Required for Version Passw letvery Group/Farm Inventory Auto-Update Simulation Logofs It Capabilities for Remote Monitoring of: uery and PING/SIP	ns 7.x Only): vord:	
Enter Citrix Admini User Name Enable Citrix D Enable Logon Enable Master Agent SNMP Trap/Or Systog:	etrative Credentials to Start Monitoring (Required for Version Passon Passon Simulation Logofs It Capabilities for Remote Monitoring of: uery and PINO/SIP	rs 7.x Only): vord:	
Enter Citrix Admini User Name: Enable Citrix D Enable Master Agen SNMP Trap/Co Systog: Sig Agentess Srvr	etrative Credentials to Start Monitoring (Required for Version Passon Passon Simulation Logofs It Capabilities for Remote Monitoring of: uery and PINQ/SIP	ns 7.x <u>Only):</u> vord:	
Enter Citrix Admini User Name; Enable Citrix D Enable Cotrix D ShiMP Trap/Q Systog: Systog: Agentless Stvr	etrative Credentials to Start Monitoring (Required for Version Passon Passon Edvery Group/Farm Inventory Auto-Update Simulation Logofs IC Capabilities for Remote Monitoring of: uery and PING/SIP	ns 7.x <u>Only):</u> vord:	

Please note, if is it not possible to put an agent on the Citrix ZDC/DDC in your environment, there are 2 workarounds to accomplish the same goal:

- Apply a logon script to the service account so that after 'X' amount of time the session is logged off.
- Utilize the machine/user idle & disconnect policies.

C. 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 launches 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
Туре	Citrix is configured out of the box. There is no need to change this field unless advised by
	a Goliath engineer.
Name	The unique name to identify the launch
Description	Description of the launch
Site URL	The URL of your Citrix Portal (Storefront, Web Interface, NetScaler Gateway)
Tab/Folder	If the app/desktops reside in a tab and or folder that is not the default page once the
Navigation	user logs in, please define the path to the Application and or Desktop.
(optional)	For example, if your Citrix Storefront has the "Apps" and "Desktops" tabs at the bottom
	or top of the page, you will need to enter which tab the item is under. Also, folders can be separated by '/' if there are any nested folders: i.e. 'Anns/Browsers''
Launch Credentials	Citrix Portal credentials for GAAM service account. These must be entered the same
	exact way they will be entered into the Citrix Portal.
Directory Account	Enter the Citrix Portal username in the format of DOMAIN\username, this account name
Name	will be used to connect to the ZDC/DC to execute the logoff of its session.
Launch Endpoint	The machine in which the launches will be executing
Application or	Enter the information for the Applications and or Desktops that you would like to launch
Desktop & Validation	in the 'Application or Desktop' field and then the Window Title in the 'Validation' field.
	Please Note:
	 Application and Desktop must be entered the exactly as they appear on the Citrix site but are not case sensitive.
	• 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.
	• If your window titles often change, the Boolean character of '+' is accepted.
	 GAAM will launch the apps/desktops in the order in which you define them.
	 If you have an application with a windows logon Eula/disclaimer, you can use the '>' character to separate the 2 window titles (the win logon page and the actual application window)
	 The applications/desktops defined in a given launch must reside in the same location on the Citrix site (i.e. folder/tab)

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

Schedule	Options	Alert Settings	Remediation
Type: Citrix	•		Suspend:
Name: Input Name			<u>له</u>
Description: Input Descriptio	n		<u>له</u>
- Settings			
Site URL:			
Tab/Folder Navigation:			
Launch Credentials:	sername	Password	
Directory Account Name:			
Launch Endpoint:			Browse
- Launch			
Enter the name of the a Applicati	pplication or desktop and its Win on or Desktop	dow title when launched for validation Validation	on. Click + to apply. า
+ Published Name		Window Title	A
			.
Cabadula			
- schedule			
Execute Run Every: Q	Minutes	¥	
First Launch At: 10/5/20	017 12:28 PM		
		ОК	Cancel

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

Field Name	Description
Auto-Launch Application	Check this box if your environment auto-launches an app/desktop at logon. If this
or Desktop	box is selected, it will apply to all applications/desktops defined in the simulation
(optional)	remove those from the simulation and create a separate one.
Application or Desktop	Check this box if you would like the Logon Simulator to click on the
Double-Click	application/desktop a second time if there was no confirmation on the resources
(optional)	launening
Run Simulation Invisible	Check this box if you do not the simulation windows to visibly appear on the screen
(optional)	
Disable Client Error	By default, the Logon Simulator is going to look for any Citrix Receiver errors on the
Reporting	Launch Endpoint. Please select this option if you would NOT like the Logon Simulator to look for these error events
(optional)	
Launch Timeout	This is the threshold for whether or not the simulation is a success or failure. If any
	stage of the simulation process exceeds this threshold the simulation will report back as failed.
Logoff Delay	Once the simulation 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
Two Factor	If multifactor authentication is used, please enter the static token in this field
Authentiestics / DCA	Please note, if this is your configuration we suggest contacting the Goliath Support
Authentication/ RSA	team as some customer specific modifications may be needed.
Password	
(optional)	
Single Sign-On	Check this box if single sign-on is enabled in your environment.
(optional)	
Secondary Authentication	If your environment uses 2-factor authentication please enter your credentials
Account	here. Please note, if this is your configuration we suggest contacting the Goliath Support team as some customer specific modifications may be needed
(optional)	support team as some castomer specific mounications may be needed.
Prompt Before Storefront	Check this box if you have a Eula/disclaimer prompt appear before signing into the
Login	Storefront page
Prompt After Storefront	Check this box if you have a Eula/disclaimer prompt appear after signing into the
Login	Storefront page
After Application or	Check this box if you have a Eula/disclaimer prompt appear inside your desktop or
Desktop Launch	applications. Please note, this setting requires an active windows session and will not work if the user is disconnected.

Schedule	Options	Alert Settings	Remediation
			í
- Launch Options			
Auto-Launch Application	n or Desktop:		
Application or Desktop	Double-Click:		
Run Simulation Invisible	2:		
Disable Client Error Re	porting:		
Launch Timeout: 45	Seconds	¥	
Logoff Delay: 3	Seconds	T	
- Authentication Option	ns		
Two Factor Authenticati	on/RSA Password: Input Pa	ssword	
Single Sign-On:			
Secondary Authentication	on Account:		
	Username Passwo	ord	
- Disclaimer Options			
Prompt Before Storefrom	nt Login:		
		ОК	Cancel

- To configure alert notifications, choose the 'Alert Settings' tab. Configure the below settings as appropriate
 - Email Please see <u>Appendix E</u> 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 <u>Appendix E</u> 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.

Schedule	Options	Alert Settings	Remediation
— Email			*
Enable Email Notification	с 🔲		
Email Address:			
Email Subject:			
- SNMP Trap			
Enable SNMP Trap Notifi	ication:		
Trap Target Address:			
Enterprise OID:			
Specific Trap Number:			
Community:			
– Syslog			
Enable Syslog Notificatio	n:		
Syslog Server Address:			
Syslog Facility:	Kernel	T	
Syslog Severity:	Emergency	T	
		ОК	Cancel

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

Schedule	Options	Alert Settings	Remediation
Run Program (Run any V	Vindows executable for notificat	ion/recovery action):	
At: Goliath Server	 Input Server 		
Restart Monitored Server	*:		
Program Name:			
Program Arguments:			
Optional User Name:			
Optional Password:			
Optional Start Directory:			
Show Program Window:			
* Requires Agent on the r	monitored or selected server		
		ОК	Cancel

Test the Launch

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:

- installation prompt for the Citrix receiver the first time the test user tries to log in
- prompt to download the ICA file
- Incorrect application name or window title

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

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.

E. 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.
- \circ $\;$ You can drill into the simulation details by selecting the button in the 'Details' column
- Launch Details Information:

Message	Description
SF Resources Page Not Found	This error is indicative of the Logon Simulator being unable to confirm that
	it has successfully signed into Storefront successfully. This error can
	manifest for 2 reasons, first is invalid user credentials and the second is the
	storefront server is down and not accepting logins as the simulator was
	unable to reach the storefront page.

Resource '' Not Found	This error entails that the Logon Simulator was unable to find the defined
	application/desktop on the Storefront page. When first deploying the
	simulator, please ensure that application/desktop is spelled correctly and
	matches the content on the page exactly. If the resource is spelled
	correctly, we often suggest our customers to do an 'Inspect Element' of
	the resource to ensure there is no hidden space characters that may not
	be visible.
WARNING: Unable to confirm that	This error is the result of the Logon Simulator being unable to confirm that
session launched for Resource =	the session has been successfully launched. Once the simulator clicks on
'' and Title= ''	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
Trutt Waiting	This is an informational message not an error message. With the
waiting	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.
Unable to Start the Logon	This message entails that the Logon Simulator was unable to start. Please
Simulator Powershell Command	check and make sure all prerequisites are in place as well as that all default fields are entered into the configuration
and Script for App=	
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
	Control is turned off on the Launch Endpoint. This can be confirmed by
	opening a command prompt (with pormal 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 <u>http://nn.nn.nn:##/InstallAgent.exe</u> where 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 <u>Appendix B</u> on how to obtain it. If you are unsure of the web port for the Goliath Server, please see the instructions in <u>Appendix D</u> on how to obtain it.

B. Determining the Goliath Server IP Address/FQDN

- 1. Sign into the Goliath Server
- 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
- 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
- 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
 - o 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 <u>name@mydomain.com</u>
 - 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 <u>name@mydomain.com</u>
 - When finished, click the 'OK' button. The Goliath server will then validate a connection to the SMTP server.
 - o This information is then saved Globally and will not need to be defined again.
 - Please note, is you are using Office 365 or another hosted mail provider please email 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
- o 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 is it not, please install it using **'Add Roles and Features'** in Server Manager
 - o 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'

nedule Repo	rts				
Schedule	Queued	Brand	Properties		
		Select the	Report and Opt	ions	
Report Ty	ype: Alert Analysis				
Report Descript	ion: Report on Monito	ored Alert Condition	5		
Report Name/No	tes:				
		Choose Alert	Types & Servers/De	vices	

- 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.

	Specify the Report Schedule
Run Report Every:	1 Week(s)
Start At Date/Time:	Sun 11/23/2014 / 6:00 AM
For Previous Period:	1 Week(s) Exclude Time Periods
Email Report:	Eink Only Full Report Specify Email Details
Optional Report Name:	
Optional Report Folder:	
Optional URL to Report:	
	Schedule Report

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. Launch Endpoint Manual Configuration

Instead of using the GAAMEndpoint.exe, one can also configure the prereqs manually.

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 <u>https://technet.microsoft.com/en-us/sysinternals/autologon.aspx</u>

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 Launch Endpoint(s)
- Double click to run the file
- A warning will appear for changing the registry, click 'Yes' to continue



Reboot the Launch Endpoint

C. Internet Explorer 11:

- The Logon Simulator is leveraging a series API calls during the simulation sequence.
 Therefore, Internet Explorer version 11 is required. Below are instruction on who to determine what version of Internet Explorer is currently installed.
 - Open Internet Explorer
 - Select the gear icon in the top right hand corner
 - Choose the menu option labeled 'About Internet Explorer'
 - A new window will open and display the versions details. If you are running version 11 then that is excellent. If not, you will need to update your browser to version 11.

D. 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 Launch 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 in 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.

E. Citrix Receiver:

- Since the Logon Simulator is creating real Citrix sessions, Citrix Receiver is required in order to execute and run the ICA files. Below are instructions on how to determine if Citrix Receiver 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 where or Citrix Receiver is installed. If it is not, you can download the latest version of Citrix Receiver at the link provided http://www.citrix.com/go/receiver.html

F. 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 Launch 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 Launch 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 Launch Endpoint.

G. Trusted Sites:

- When the Logon Simulator executes, it assumes that the ICA file will be opened automatically. To ensure this process, Trusted Sites settings must be lowered and the Citrix address must be added to trusted sites. Please see the following instructions for modifying the settings.
 - Open Internet Explorer
 - Click the gear icon and select the menu option for 'Internet Options'
 - Navigate to the 'Security' tab, and select the 'Trusted Sites' zone
 - Click the 'Sites' button, add your Citrix portal address and click close when finished
 - Under 'Security level for this zone' move the slider down to the lowest possible setting
 - Lastly, click 'Apply' and then 'OK' to save these settings

H. WASP.dll:

- On the Goliath Server, open Windows File Explorer and navigate to C:\Program Files (x86)\MonitorIT\Bin
- Find the file 'WASP.dll'

- o Copy the file and past it into the agent install folder on the Launch Endpoint.
 - The default location on a Launch Endpoint is C:\Program Files\MonitorIT
 - If you are running the Logon Simulator on the same machine as the base install please paste the into C:\Program Files (x86)\MonitorIT