

# How to set up F5<sup>®</sup> BIG-IP<sup>®</sup> Access Policy Manager<sup>®</sup> (APM<sup>®</sup>) with OPSWAT MetaAccess<sup>®</sup>

---

About This Guide: .....	2
Access Policy .....	3

## About This Guide:

MetaAccess prevents risky devices from accessing local networks and cloud applications such as Office 365, Salesforce and Dropbox. Using OPSWAT's industry-leading endpoint security and advanced threat prevention technologies, MetaAccess performs extensive security and compliance checks as well as remediation before allowing devices to access corporate data.

MetaAccess can be leveraged by F5 BIG-IP APM to provide enhanced compliance checking capabilities. Once you have deployed the MetaAccess to your devices and configured your compliance policy through the MetaAccess console, the MetaAccess will store the device's compliance status within the Windows Registry or Mac OS p-list. The F5 BIG-IP APM can access and use this information through a simple access policy, and can be used to determine if a device should be granted network access, or on a continuous basis to ensure that a device should retain network access based on the predefined security and compliance policies established by the organization.

## Access Policy

An F5 BIG-IP APM appliance can be configured to utilize MetaAccess for advanced threat detection and compliance enforcement for remote users. These checks will ensure that endpoint devices connecting to the network are meeting all compliance requirements established by the organization.

The policies can be easily configured via the MetaAccess console, and will enable an administrator to ensure that the security and compliance requirements of an organization are met on a continuous basis.

### Step 1:

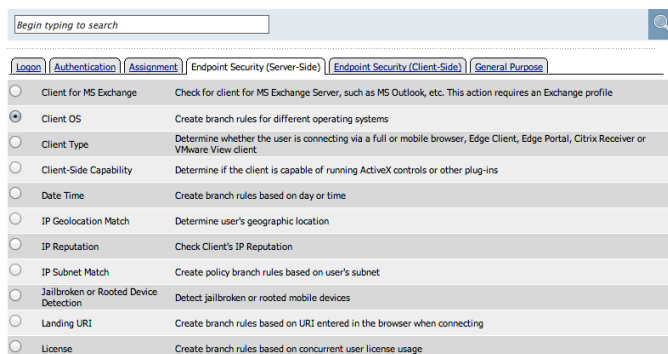
To create a new *Access Policy*, navigate to *Access Policy* → *Access Profiles* → *Access Profiles List*. Create a new policy, and under General Properties add the following:

- Name: "MetaAccess\_Assessment"
- Parent Profile: access
- Profile Type: SSL-VPN

Go to your *Access Profile List* and select the Access Profile you just created - "MetaAccess\_Assessment", select *Edit* under *Access Policy*. This will take you to the visual policy editor for your new *Access Policy*.

### Step 2:

Click on *+*, next to the *Start*, then select the *Endpoint Security (Server-Side)* tab – then click on *Client OS*. This allows you to create a branch rule based on the type of operating system on the endpoint. This is useful as the path is different between the different Windows devices (32-bit versus 64-bit) and Mac.



Select *Add Item*.

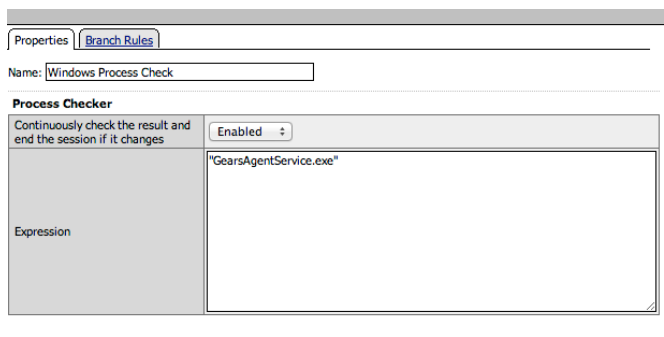
For simplicity you can remove the operating systems that you are not checking for at this time (i.e. Windows RT, Linux, IOS, and Android).

### Step 3:

Before checking for the policy state of the device, confirm that the MetaAccess is running on the endpoint. This can be performed simply through a Process Check.

Click on *+*, next to *Windows* and then click on the *Endpoint Security (Client-Side)* tab. Once there, select *Windows Process*. This will open up a window to configure the Windows Process Checker properties.

- Name: "Windows Process Check"
- Registry Checker: Select *Enabled* next to "Continuously check the result and end the session if it changes" section, if you wish to provide an ongoing policy check on the endpoint state. If you wish to only have a check when the device logs in, then select *Disabled*.
- Expression:
  - If you are using the persistent, installed MetaAccess agent, use "GearsAgentService.exe"
  - If you are using the on demand, portable MetaAccess agent, use "opswat-gears-od.exe"



The screenshot shows a configuration window for the 'Windows Process Check'. At the top, there are tabs for 'Properties' and 'Branch Rules'. Below the tabs, the 'Name' field is set to 'Windows Process Check'. The 'Process Checker' section has a dropdown menu set to 'Enabled' with a '+' icon. Below this, there is a large text area labeled 'Expression' which contains the text '"GearsAgentService.exe"'. The window has a standard Windows-style border with a title bar.

Select *Save*.

#### Step 4:

Next create a process check for Mac devices. Click on *+*, next to *MacOS* and then click on the *Endpoint Security (Client-Side)* tab. Once there, select *Mac Process*. This will open up a window to configure the Mac Process Checker Process properties.

- Name: "Mac Process Check"
- Registry Checker: Select *Enabled* next to "Continuously check the result and end the session if it changes" section, if you wish to provide an ongoing policy check on the endpoint state. If you wish to only have a check when the device logs in, then select *Disabled*.
- Expression:
  - If you are using the persistent, installed MetaAccess agent, use "GearsAgent"
  - If you are using the on demand, portable MetaAccess agent, use "opswat-gears-od"

Properties | Branch Rules

Name: Mac Process Check

**Mac Process Checker**

Continuously check the result and end the session if it changes Enabled

Expression: "GearsAgent"

Select *Save*.

### Step 5:

Create two Windows Registry checks, one for 32-bit and one for 64-bit. Make sure the logic of the flow handles the unique paths for each registry; the configuration steps below are set up to check the 64-bit registry setting first, and upon failure check the 32-bit registry setting.

Click on *+*, next to *Windows* and then click on the *Endpoint Security (Client-Side)* tab. Once there, select *Windows Registry*. This will open up a window to configure the Windows Registry properties.

- Name: "Windows Registry 64-bit"
- Registry Checker: Select *Enabled* next to "Continuously check the result and end the session if it changes" section, if you wish to provide an ongoing policy check on the endpoint state. If you wish to only have a check when the device logs in, then select *Disabled*.
- Expression:
  - If you are using the persistent, installed MetaAccess agent, use  
"HKEY\_LOCAL\_MACHINE\SOFTWARE\WOW6432Node\OPSWAT\Gears Client\Status" ."Policy" = 1
  - If you are using the on demand, portable MetaAccess agent, use  
"HKEY\_CURRENT\_USER\Software\OPSWAT\Gears OnDemand\Config" ."Policy" = 1

Properties | Branch Rules

Name: Windows Registry 64-bit

**Registry Checker**

Continuously check the result and end the session if it changes Enabled

Expression: "HKEY Local Machine\SOFTWARE\Wow6432Node\OPSWAT\GEARS Client\Status" ."Policy" = 1

Select *Save*.

### Step 6:

Click on *+*, next to *Windows* and then click on the *Endpoint Security (Client-Side)* tab. Once there, select *Windows Registry*. This will open up a window to configure the Windows Registry properties.

- Name: "Windows Registry 32-bit"
- Registry Checker: Select *Enabled* next to "Continuously check the result and end the session if it changes" section, if you wish to provide an ongoing policy check on the endpoint state. If you wish to only have a check when the device logs in, then select *Disabled*.
- Expression:
  - If you are using the persistent, installed MetaAccess agent, use  
"HKEY\_LOCAL\_MACHINE\SOFTWARE\OPSWAT\Gears Client\Status" ."Policy" = 1
  - If you are using the on demand, portable MetaAccess agent, use  
"HKEY\_CURRENT\_USER\Software\OPSWAT\Gears OnDemand\Config" ."Policy" = 1

The screenshot shows a configuration window for a Windows Registry rule. At the top, there are two tabs: "Properties\*" and "Branch Rules", with "Branch Rules" being the active tab. Below the tabs, the "Name" field is set to "Windows Registry 32-bit". Under the "Registry Checker" section, the option "Continuously check the result and end the session if it changes" is selected, and the "Enabled" dropdown menu is set to "Enabled". The "Expression" field contains the text: "HKEY\_LOCAL\_MACHINE\SOFTWARE\OPSWAT\GEARS Client\Config" ."Policy" = 1.

Select *Save*.

### Step 7:

To configure the policy check for the Mac devices, the path is a bit different than the Windows devices. The configuration steps below combine the License Key and policy value into a single file value to allow for the same policy check on the Mac devices. This allows you to validate the policy state on the Mac, as well as confirm that the License Key matches the account administered by your organization.

Click on *+*, next to *MacOS* and then click on the *Endpoint Security (Client-Side)* tab. Once there, select *Mac File*. This will open up a window to configure the Mac File properties.

- Name: "Mac File Policy Check"
- Mac File Checker: Select *Enabled* next to "Continuously check the result and end the session if it changes" section, if you wish to provide an ongoing policy check on the endpoint state. If you wish to only have a check when the device logs in, then select *Disabled*.
- FileName:

- If you are using the persistent, installed MetaAccess agent, use  
 "Applications/OPSWAT GEARs Client/Policies/GEARS\_<license key>\_1.txt"
  - The <license key> value will be **your MetaAccess License Key**. You can find this information at Settings > Global Settings
  - The "1" represents the Policy Value of a device that passes the policy defined in MetaAccess console.
- If you are using the on demand, portable MetaAccess agent, use  
 "/Users/<username>/Documents/OPSWAT/GEARS OnDemand/GEARS\_<license key>\_1"
  - The <license key> value will be **your MetaAccess License Key**. You can find this information at Settings > Global Settings
  - The "1" represents the Policy Value of a device that passes the policy defined in MetaAccess console.
- Date: 1970-01-01 00:00:00
  - This is the default date, which is the same as specifying no file check date

Properties\* [Branch Rules](#)

Name: Mac File Policy Check

**Mac File Checker**

Continuously check the result and end the session if it changes

Insert Before: 1

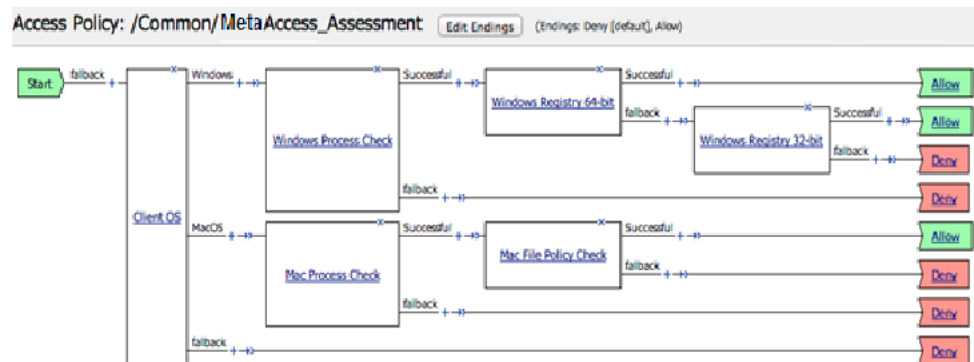
	FileName	MDS	Size (bytes)	Date	
1	"Applications/OPSWAT GEARs	<input type="text"/>	<input type="text" value="0"/>	<input type="text" value="1970-01-01"/>	<input type="button" value="X"/>

Click *Save*.

### Step 8:

Once you have configured for the policy checks for Windows and Mac, modify the response based on *Successful* or *Failure* outcome – Allow or Deny.

Your final policy should look like this:



For more information, or if you have any questions about the steps above, please log into the OPSWAT Portal at <https://portal.opswat.com> and submit a ticket to request assistance from our support team.