

Configuration Guide - F5 Access Policy Manager: DOD Warning Banner

This document outlines the steps required to add the F5 APM standard DoD Warning Banner configuration to an F5 virtual server, where intermediary access controls for web applications are provided by 's deployed F5 Access Policy Manager. The use of a DoD Warning Banner is a Defense Information Security Agency (DISA) Security Technical Implementation Guide (STIG) requirement that is typically assigned as a Category III line item. The following is an excerpt from an F5-relevant DISA STIG:

"The BIG-IP Core implementation must be configured to display the Standard Mandatory DoD-approved Notice and Consent Banner before granting access to virtual servers. (STIG ID: F5BI-LT-000023)"

Users should be familiar with F5's GUI and basic administration of the F5 application delivery controller before following the procedures in this guide. Do not perform these procedures on an access policy that is applied to an application virtual server that is actively processing client logins. This process should be performed on an offline test instance of an access policy and migrated to a production virtual server upon successful testing and acceptance of the modified access policy operation.

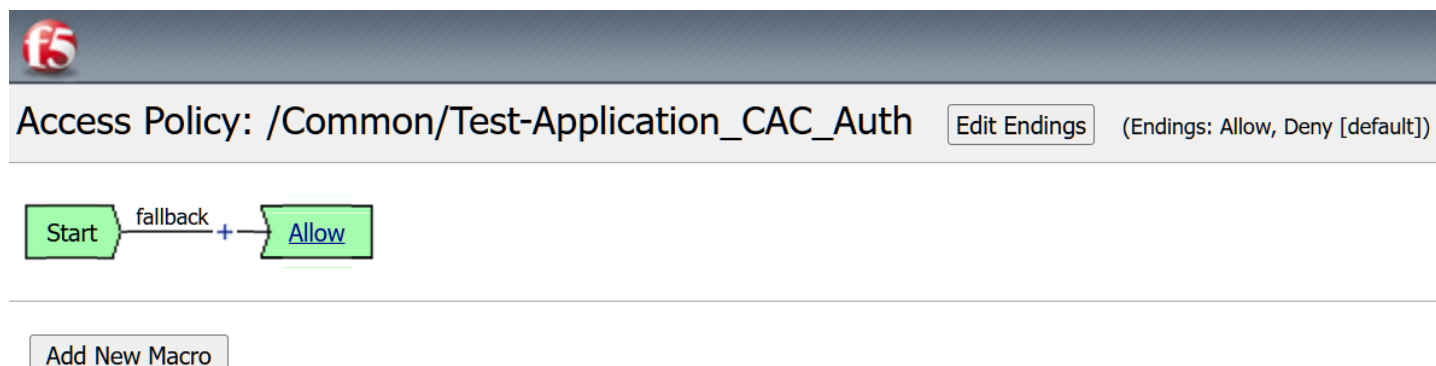
1. Select Application APM Access Policy: To configure an access policy, select "Main – Access Policy – Access Profiles – Access Profiles List". The available list of access profiles will be presented. For this example, we will add a DoD warning banner to access profile: "Test-Application_CAC_Auth". Click "Edit" on the relevant line to launch the APM visual policy editor for this access policy.

Access
Profiles / Policies : Access Profiles (Per-Session Policies)

Access Profiles
Per-Request Policies
Policy Sync
Customization

<input checked="" type="checkbox"/>	Status	Access Profile Name	Application	Profile Type	Per-Session Policy	Export	Copy	Customization	Logs	Virtual Servers	Partition / Path
<input type="checkbox"/>		Test-Application_CAC_Auth		All	Edit...	Export...	Copy...	Standard	default-log-setting	TEMP-APM-TEST	Common
<input type="checkbox"/>		access		All	(none)	(none)	(none)				Common
<input type="checkbox"/>		kerberos_auth_config_default		All	(none)	(none)	(none)	Modern	default-log-setting		Common

2. APM Access Policy Structure: DoD Warning Banners should be created at the start of access policy evaluation for all applications that face DoD networks. This ensures that a user must accept the warning prior to user evaluation by APM, which includes the retrieval of the user's PKI certificate or login credentials. The start of the APM access policy is the first connection point into the access policy, which is represented by the plus "+" symbol immediately following the policy "Start" fallback path. Access policies are displayed visually and should be read from left to right, with the policy endpoint termination flags at the far right.



Configuration Guide - F5 Access Policy Manager: DOD Warning Banner

3. Add Message Box Item to Access Policy: An APM "Message Box" is used to provide feedback to a user through a pop-up message panel that can be configured at any point in the access policy. An unmodified message box is insufficient for the DoD Warning Banner, but through the use of APM's Advanced Customization function, it can be modified using markup code, style sheet elements, and JavaScript. Click on the "+" sign following the "Start" flag to bring up APM's component menu. Select the "General Purpose" tab, click the radio button for "Message Box," and then click "Add Item."

Logon

Authentication

Assignment

Endpoint Security (Server-Side)

Endpoint Security (Client-Side)

General Purpose

<input type="radio"/>	Decision Box	Create a custom decision page with two choices to display to the user
<input type="radio"/>	Email	Configure Email messages for reporting
<input type="radio"/>	Empty	An Empty Action for constructing custom Branch Rules
<input type="radio"/>	iRule Event	Raises an iRule ACCESS_POLICY_AGENT_EVENT event for use with custom iRules
<input type="radio"/>	Local Database	Allows read/write access to a local on-box user database
<input type="radio"/>	Logging	Log custom messages and session variables for reporting and troubleshooting
<input checked="" type="radio"/>	Message Box	Create a custom message to display to the end user, with prompt to continue

The Message Box configuration panel will appear. Change the Name field in the Properties tab to be “**DoD Banner**”, add the text “**Look in advanced customization!**” in the Message field and then click “Save” at the bottom of the message box configuration panel.

Properties*

Branch Rules

Name:

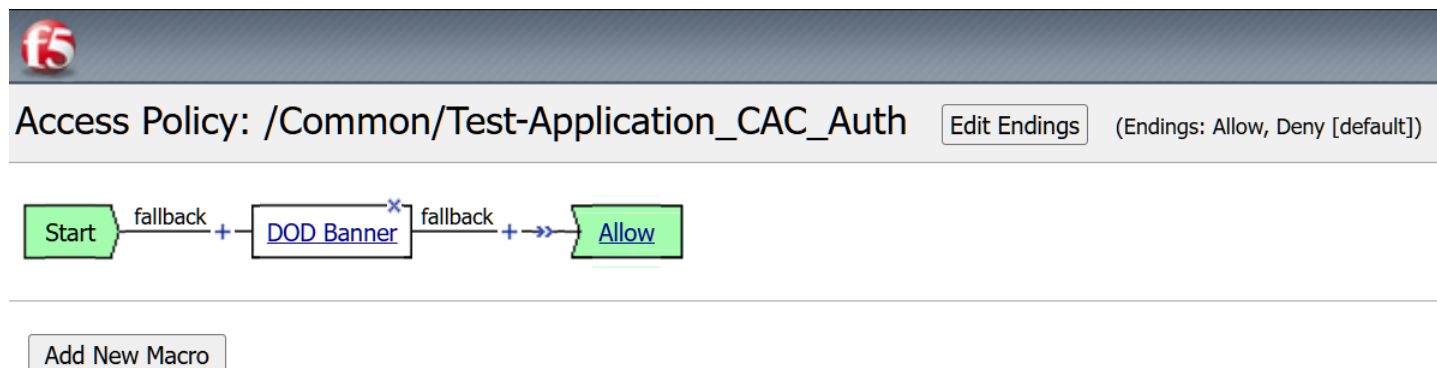
Message Box

Customization

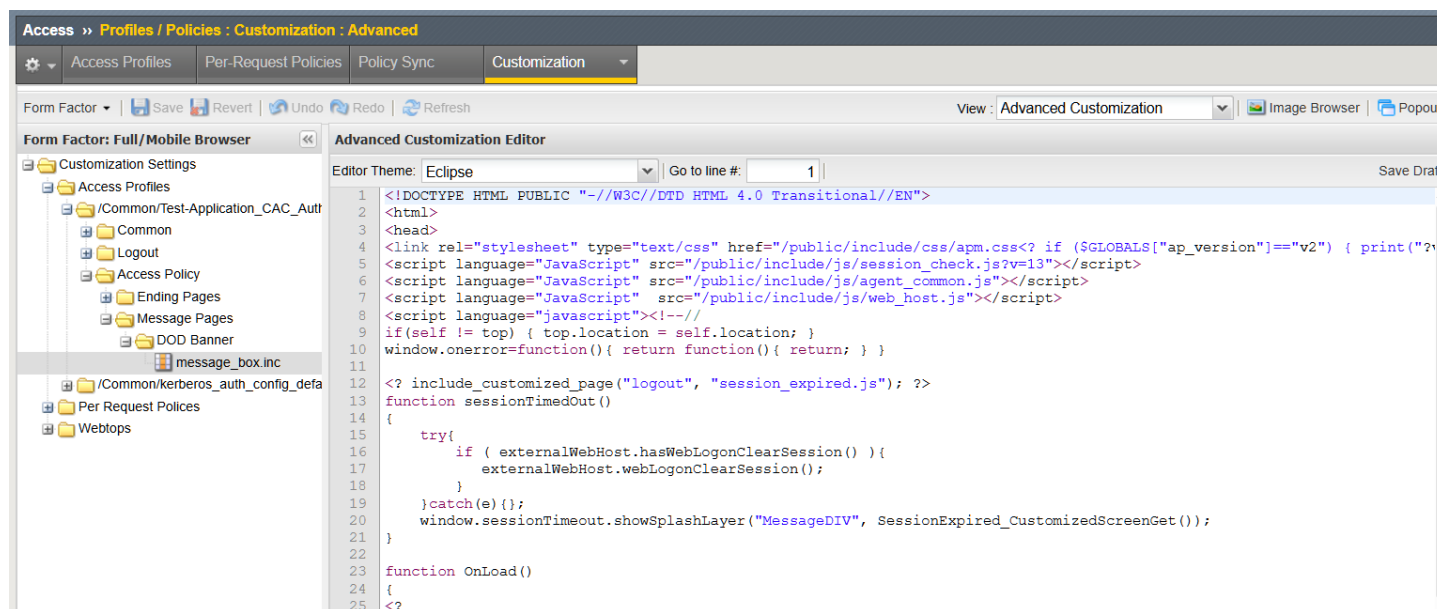
Language	<div>en ▾</div>	<div>Reset all defaults</div>
Message	<input type="text" value="Look in advanced customization!"/>	
Link	<input type="text" value="Click here to continue"/>	

Configuration Guide - F5 Access Policy Manager: DOD Warning Banner

The message box object with custom title has now been added to the access policy. Click "Apply Access Policy" in yellow text and then click "Close" in the green box in the top right. Your browser may notify you that the webpage is trying to close the tab that contains the visual policy editor. Click "OK".



4. Customize the DoD Warning Banner Code: In the F5 Admin GUI, select "Main – Access Policy – Customization - Advanced." Expand the "Customization Settings" tree for the access policy being modified. Our example uses "/Common/Test-Application_CAC_Auth." Expand the subsections of this policy: "Access Policy – Message Panes – DoD Warning Banner." We will need to modify the code for the access policy file "message_box.inc." The HTML code for this file is displayed in the Advanced Customization Editor when the file is selected.



Select all of the HTML code from one of the DoD BANNER pages at the end of this document and copy it to the Windows clipboard. Click into the F5 Advanced Customization editor window, select all text, and delete it. Now paste the clipboard contents starting at line 1. The HTML code for the DoD Warning Banner is exactly 248 lines, with Line 248 being: </html>. Validate the code is correct; if it is not correct, use the "Revert" button in the editor to remove the pasted code and try again. Do not edit any portion of the provided code without testing, or unexpected behavior in APM may occur. Click the "Save Draft" button on the top right of the editor panel and then click "Yes" when a pop-up prompts to save the file. This saves all changes within the editor.

5. Apply the Access Policy, Synchronize the Configuration, and Test the Banner: Click "Save" in the Advanced Editor window, then click "Apply Access Policy" and synchronize the cluster configuration. Test the modified

Configuration Guide - F5 Access Policy Manager: DOD Warning Banner

policy using a test virtual server. The banner page will look like the following based on the code contained at the end of this document. Ensure the operation of the "I ACKNOWLEDGE AND CONSENT" button allows the user to proceed through access policy evaluation successfully.

DOD NOTICE AND CONSENT BANNER

You are accessing a U.S. Government (USG) Information System (IS) that is provided for USG-authorized use only.

By using this IS (which includes any device attached to this IS), you consent to the following conditions:

- The USG routinely intercepts and monitors communications on this IS for purposes including, but not limited to, penetration testing, COMSEC monitoring, network operations and defense, personnel misconduct (PM), law enforcement (LE), and counterintelligence (CI) investigations.
- At any time, the USG may inspect and seize data stored on this IS.
- Communications using, or data stored on, this IS are not private, are subject to routine monitoring, interception, and search, and may be disclosed or used for any USG-authorized purpose.
- This IS includes security measures (e.g., authentication and access controls) to protect USG interests--not for your personal benefit or privacy.
- Notwithstanding the above, using this IS does not constitute consent to PM, LE or CI investigative searching or monitoring of the content of privileged communications, or work product, related to personal representation or services by attorneys, psychotherapists, or clergy, and their assistants. Such communications and work product are private and confidential. See User Agreement for details.

**I ACKNOWLEDGE
AND CONSENT**

Configuration Guide - F5 Access Policy Manager: DOD Warning Banner

GREEN BANNER

SELECT HTML BELOW THIS LINE

[illegible]

Configuration Guide - F5 Access Policy Manager: DOD Warning Banner

RED BANNER

SELECT HTML BELOW THIS LINE

[illegible]

Configuration Guide - F5 Access Policy Manager: DOD Warning Banner

YELLOW BANNER

SELECT HTML BELOW THIS LINE

[illegible]