



FortiADC - 2FA Script Deployment Guide

Version 5.4.0



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Change Log

Date	Change Description
2018-09-24	Initial release.
2018-10-18	Cannot generate tagged PDF (MadCap bug); target updated.

Introduction

FortiADC 2FA provides stronger security for authentication when the client uses a FortiADC local account to login to the Virtual Server (VS). In addition to a username and password, you will need the correct token (given by phone) to confirm your login into the VS.

Before you begin, you must do the following:

- Configure "User Authentication Settings" on the Virtual Server
- Download the FortiToken or Google Authenticator app on your mobile phone.
- Ensure that the time on the FortiADC and the mobile phone are the same.

Deploying FortiADC-VM on 2FA Script

Step 1: Create a tokengroup

FortiADC-VM # config system tokengroup

FortiADC-VM (tokengroup) # edit 1

FortiADC-VM (1) # end

FortiADC-VM#

Step 2: Configure the pre-defined script

- 1. TWO STEP VERIFICATION
- 2. TWO_STEP_VERIFICATION_2_SAME

The keys of the parameter:

- AUTH_ROOT_PATH—The authentication folder under "User Authentication" settings. One is for the form method and the other for the basic.
- TG_NAME —Use the tokengroup entry from Step 1.

```
00-TWO_STEP_VERRICATION

81 COCKIE_TIMEOUT_GRACE = 60;
82 AUTH ROOT PAITH = "/form" --this shall match the path in the authenticatoin policy
83 SIGNOUT_PAITH = AUTH_ROOT_PAITH. "/signout?f"; --needs be lower case
84 ENBALE_PAITH = AUTH_ROOT_PAITH. "/disable2f"; --needs be lower case
85 OISABLE_PAITH = AUTH_ROOT_PAITH. "/disable2f"; --needs be lower case
86 ACCOUNT_PAITH = AUTH_ROOT_PAITH. "/disable2f"; --needs be lower case
87 INDEX_PAITH = "Sox.html"; --this is relative to the AUTH_ROOT_PAITH
88 IMAGE_PAITH = "Smage/Penguins.jpg"; --you needs be lower case
87 INDEX_PAITH = "Sox.html"; --this is relative to the AUTH_ROOT_PAITH
88 IMAGE_PAITH = "Smage/Penguins.jpg"; --you need but this image on the backend real server relative to the AUTH_ROOT_F
89 HA_FLAG = false; --or false, set to true if you have HA setup
90 SVMC_AMONG_VS_SHARING_TOKENGROUP_FLAG = false; --or false, set to true if want to sync up the token group change amc
91 map2f={};
92 whenzf-{};
93 tmpmap2f={};
94 status2f={};
95 INIT_TOKEN_STATUS2F = 1;
96 VENC_ZS_STATUS2F = 2;
97 ENABLE_TOKEN_STATUS2F = 4;
99 enve{};
98 IOISABLE_TOKEN_STATUS2F = 4;
99 enve{};
                   99 env=();
100 TG NAME = "1";--this is the token group selected in the virtual server
101 COOKIE_KEY = key gen("cookiepass", "salt", 32, 32);--you need change the password phrase, don't share it with others
```

```
Scripting
         1 --This is for the second authentication group using the same token group.
  when RULE_INIT priority 501 {

4 AUTH ROOT_PATH2 = "/basic" --this shall match the path in the authenticatoin policy

5 SIGNOUT_PATH2 + AUTH_ROOT_PATH2. "/signout2f"; --needs be lower case

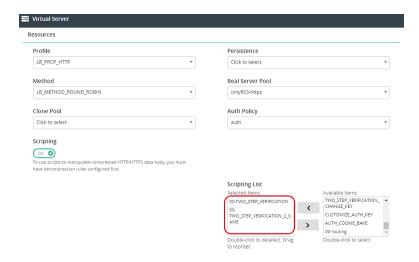
6 EHABLE_PATH2 = AUTH_ROOT_PATH2. "/enable2f"; --needs be lower case

7 DISABLE_PATH2 = AUTH_ROOT_PATH2. "/disable2f"; --needs be lower case

8 ACCOUNT_PATH2 = AUTH_ROOT_PATH2. "/disable2f"; --needs be lower case
```



Step 3: Link these scripts to the VS



Step 4: Link the tokengroup to the VS.

FortiADC-VM # config load-balance virtual-server

FortiADC-VM (virtual-server) # edit http-60

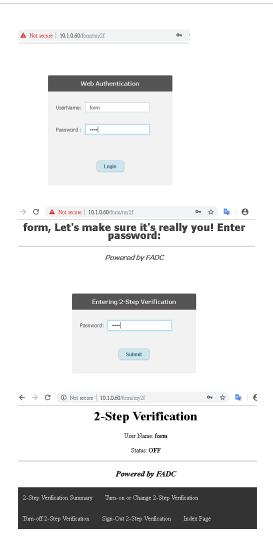
FortiADC-VM (http-60) # set token-group-list 1

FortiADC-VM (http-60) # end

FortiADC-VM#

Step 5: Access the my2f page from client.

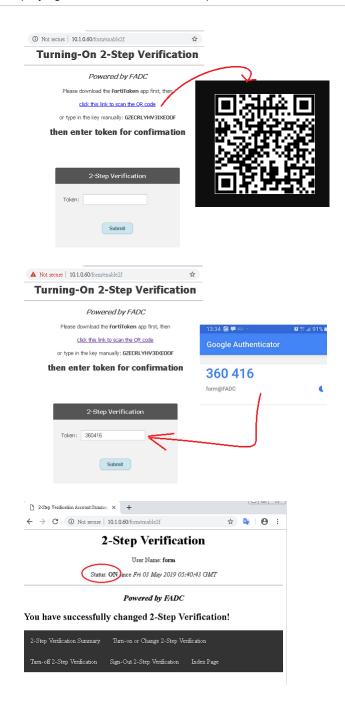
- 1. Access the VS page under AUTH_ROOT_PATH/my2f and input the correct user/passwd.
- 2. Input the password again.
- 3. You will see the 2FA summary page.



Step 6: Try to turn on the 2FA feature by user account.

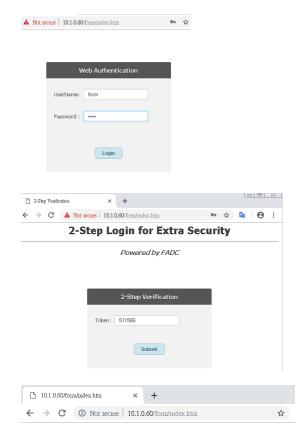
- 1. Click the **Turn-on or Change 2-Step Verification** to turn on the feature.
- 2. Will require to scan a QR code to input the information on the APP.
- 3. Input the token for confirmation.
- 4. Check if the status is ON on the my2f page.





Step 7: Verify the 2FA feature is enabled under AUTH_ROOT_PATH folder

- 1. Access the page http://VS/form/index.htm
- 2. Input the username and password.
- 3. Input the token for the 2FA verification.
- 4. You will see the index.htm content.



Test FORM-HTML Test





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