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## Setting Up Azure MFA (RADIUS) as Second Level Authentication Provider for Parallels RAS

- Parallels Remote Application Server 18.3
- Parallels Remote Application Server 19.1

## Information

Please note that Azure MFA Server on premises is not available for new deployments since July 1, 2019.

The below guide is a step by step configuration guide for Azure MFA which can be used as Second Level Authentication provider in Parallels RAS Environment deployed on Microsoft Azure on Infrastructure as a Service (IAAS).

**Note:** It is assumed that reader has a basic understanding of both Microsoft Azure and Parallels RAS. This guide will only focus on the basic configuration of Microsoft Azure MFA Server (on-premise) and configuration of Parallels Remote Application Server.

## **Pre-requisites and Assumptions**

- At the moment we do support MFA Server on-premises only.
- An Azure account with Global Administrator role is required to download and activate MFA Server. Syncing with Azure AD (via AD Connect) or a custom DNS domain aren't required to set up an MFA Server which runs exclusively on-premises.
- Parallels RAS authenticates users with MFA Server using the RADIUS second level authentication provider. MFA Server thus needs to be configured to allow RADIUS client connections from the RAS server.

## **Document process flow**

This article will take the reader through the following process to complete Azure MFA (RADIUS) configuration with Parallels RAS Second Level Authentication:

- 1. Downloading and installing Azure MFA Server On-Premises
- 2. Activating Azure MFA Server
- 3. Configuring Azure MFA Server to support RADIUS
- 4. Importing Users from Active Directory
- 5. Validating configuration
- 6. Configuring Parallels Remote Application Server
- 7. Evaluation

## Downloading and Installing Azure MFA Server On-Premises

1. Download the Azure Multi-Factor Authentication Server from the Azure portal:

- Sign in to Azure portal as a Global Administrator.
- On the left pane Azure Active Directory > MFA Server > Server settings.

• Select **Download** and follow the instructions on the download page to save the installer.

2. Run the installer, wait till it install packages (MS Visual C++, etc), accept EULA and proceed with the installation.

# Activating Azure MFA Server

3. Generate credentials to activate Azure MFA Server on-premises

- Go back to Azure portal
  Switch to Azure Active Directory > MFA Server > Select Server settings
  Click on Generate Activation Credentials button.

• Copy this information into the Azure MFA Server in the boxes provided and click Activate.

## **Configuring Azure MFA Server to support RADIUS**

4. MFA Server has been activated. Now need to proceed with it's configuration:

• Click on Tools > Authentication Configuration Wizard > tick RADIUS checkbox

Specify IP address of the Primary Connection Broker and shared secret.
Leave the Application name blank and hit OK

• Set Authentication via > Windows domain

• Click **Next** and complete configuration.

NOTE: Once done, there will be an exclamation mark asking you to enable "**Require Multi-Factor Authentication user match**", please do so by clicking on **Edit** button and save the changes.

#### **Importing Users From Active Directory**

5. To import users, a Domain Administrator role is required.

- Users > Import from Active Directory > highlight needful users > Import
- Make sure that these users have a cell phone specified by clicking on Users > username > Edit
- Change default value from phone call to **Text message**
- Check "Enabled" checkbox and hit Close

# **Validating Configuration**

- 6. To confirm that MFA Server configured properly:
  - Check that Multi-Factor Authentication works natively by specifying a user and hitting on **Test** button

- Check that Multi-Factor Authentication works with <u>NTRadPing Test Utility</u>
- Unzip the archive, run the utility and specify RADIUS server IP, port, and shared secret. Enter the username and password of a user you testing with and hit **Send** to start the test.
- An example of a successful result is Access-Challenge as on the screenshot below

### **Configuring Parallels Remote Application Server**

7. Set up Second Level Authentication in RAS:

- In RAS Console, select **Connection > Second Level authentication >** choose **Azure MFA (RADIUS)** as provider > insert FQDN of MFA Server and secret key (must match **shared secret** you specified on step #4.)
- Increase timeout limit if for example you prefer authorization via phone call and hit Check Connection

• In RAS Console, select **Connection > Authentication** 

• Uncheck Force clients to use NetBIOS credentials (otherwise, connections from Windows client might fail)

# Evaluate

8. Test MFA via connecting to your Farm using Parallels Client. In case everything is correct, after inserting OTP you should see applications available for your user:

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