Google Authenticator

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Overview

Google Authenticator supports the use of OATH HOTP such as used with the Swivel Token, and software tokens with a valid Seed can be used to authenticate Swivel users. Google Authenticator uses HMAC-SHA1 seeds.

Currently Swivel is not compatible with the Authenticator Time Based OATH TOTP token as Swivel tokens use a 30 second refresh, and Google Authenticator uses a 60 second refresh.

Prerequisites

Swivel 3.9.6

Google Authenticator

Configure the Swivel User

For configuring the seeds on the Swivel server see Token. Configuring a software token is similar to configuring a hardware token.

Swivel uses a Hexadecimal seed, to generate a valid seed see seed.

Configure the Google Authenticator App

Convert the Hexadecimal seed ((A-Z, 0-9) into Base32 (A-Z, 2-7 and = for padding), for Google. Google enforces a minimum seed length of 16 characters or 80-bits. The following online tool can be used for converting the seed:

http://www.darkfader.net/toolbox/convert/

Example:

Base16 seed: e0b10ee3a4bb2598c0575539529f33 (used by Swivel)

Base 32 seed: 4CYQ5Y5EXMSZRQCXKU4VFHZT (used by Google Authenticator)

Download the Google Authenticator from the appropriate app store.

On the Google Authenticator App select Set up account, then Enter key provided

Enter account name The Swivel user name

Enter your key The seed

Time-based change to **Counter-based**

Select Add

Then synchronise the token (see Token)

Manual account entry

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4CYQ5Y5EXMSZRQCXKU4VFHZT

Counter-based ▾

Back	Add

1	2	3	4	5	6	7	8	9	0
q	w	e	r	t	y	u	i	o	p
a	s	d	f	g	h	j	k	l	

⇧ z x c v b n m ⌫

Sym ⚙ English(UK) . Done

Google Authenticator

You're all set.

When you're asked for a verification code, get it here. The code changes frequently, so no need to memorise it.

Try signing in to your account from a computer. When asked for a code, get one here.

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