

# Octopus Framework - Technical

Rudy De Busscher

Version 0.2, 10/01/2018

# Table of Contents

Java SE .....	1
OfflineToken .....	1

# Java SE

## OfflineToken

With the help of the PBKDF2, the passphrase is turned into a byte array (using the Processor Id and the first disk UUID as salt)

This byte array can only be reconstructed with the same passphrase and the same machine information.

This **local secret** is base64 encoded.

The class **OfflineToken** is a JWT which is signed using the *local secret*.

The JWT is tamper proof, except the user can generate other offlineToken since all the code is available within Atbash Octopus.