Datasheet

Management of password of local Administrator account



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Local Administrator Password Management

Datasheet

**Published:** June 2015

**Last Updated:** June 2018

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**Abstract:** This document gives a brief overview of Local Administrator Password Solution (LAPS)

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1. Overview

Solution automatically manages local administrator password on domain joined computers, so as the password is:

* Unique on each managed computer
* Randomly generated
* Securely stored in AD infrastructure

Solution is built upon just AD infrastructure, so there is no need to install and support other technologies.

Solution itself is a Group Policy Client Side Extension that is installed on managed machines and performs all management tasks

Management tools delivered with the solution allow for easy configuration and administration.

1. Architecture

Architecture of the solution is shown below:



Core of the solution is GPO Client side Extension (CSE) that performs the following tasks during GPO update:

* Checks whether the password of local Administrator account has expired or not
* Generates the new password when old password expired or is required to be changed prior to expiration
* Changes the password of Administrator account
* Reports the password to password Active Directory, storing it in confidential attribute with computer account in AD
* Reports the next expiration time to Active Directory, storing it in confidential attribute with computer account in AD
* Password then can be read from AD by users who are allowed to do so
* Password can be forced to be changed by eligible users

1. Features

Solution features include:

* Security:
  + Random password that automatically regularly changes on managed machines
  + Effective mitigation of Pass-the-hash attack
  + Password is protected during the transport via Kerberos encryption
  + Password is protected in AD by AD ACL, so granular security model can be easily implemented
* Manageability
  + Configurable password parameters: age, complexity and length
  + Ability to force password reset on per-machine basis
  + Security model integrated with AD ACLs
  + End use UI can be any AD management tools of choice, plus custom tools (PowerShell and Fat client) are provided
  + Protection against computer account deletion
  + Easy implementation and minimal footprint

1. Requirements

Solution has the following requirements:

* Active Directory:
  + Windows 2003 SP1 and above
* Managed machines:
  + Windows Vista with current SP or above; x86 or x64
  + Windows 2003 with current SP and above; x86 or x64 (Itanium not supported)
* Management tools:
  + .NET Framework 4.0
  + PowerShell 2.0 or above