Netapp
ThousandEyes Script - Functional Specification

Change Control

Title:	ThousandEyes Configuration Script
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Created by:	Helmut Heise
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Version History

Date	Version	Created By	Description of Change
September 26, 2023	0.1	Daniela Magallan	Initial Draft
September 27, 2023	0.2	Amy Arana	Review
October 4, 2023	0.3	Helmut Heise	Adding Artifacts

Resources

The following parties are involved in the engagement.

Name	Contact	Company	Title
Amy Arana	amarana@cisco.com	ThousandEyes	Delivery Architect
Helmut Heise	hheisego@cisco.com	ThousandEyes	Integration Engineer
Daniela Magallan	dmagalla@cisco.com	ThousandEyes	Integration Engineer

Description

This document serves as the functional specification for the script delivered by ThousandEyes to NetApp

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Introduction

Purpose

The purpose of this document is to provide a functional specification on the script created by ThousandEyes Professional Services for NetApp

The goal of the script is as follows:

- Script will create the hashes needed to encrypt and decrypt the passwords for Zenoss, SNMP and ThousandEyes API.

ThousandEyes Solution

Overview

The following sections describe all deliverables involved for the solution.

Solution Components

The 2 main components involved in this solution are described in the sections below

Bash Script(s)

The script involved in this solution has been written in bash, script was developed using Visual Studio Code IDE on Windows 10 and MacOS platforms.

Testing of the scripts was performed on Centos 8 bash and EC2 Linux bash

Jasypt

Purpose

Jasypt is a java library which allows adding encryption capabilities to any java project and can be used in command line.

Script Repository

https://github.com/amarana-te/PS-E-114338-Jasypt

Script Configuration Flow.

Initial Configuration

Download the files from the repository or clone the repository, the Jasypt and the script file must be in the same directory.

Execution

Execute the script with the following command (Python's environment variable must be configured):

```
./encrypt.sh
```

As the script executes you will be prompted to issue the secret key that will be used to hash the passwords. Then you have to put your email and Zenoss passwords followed by the TE API basic authentication token. Remember that the API basic authentication token should belong to a user that has **Org Admin privileges** to be able to poll data from thousandeyes platform.

```
[centos@ip-172-31-21-134 AIS]$ ./encrypt.sh
Enter the secret encryption password:
Enter the plain text password for Email:
Enter the plain text password for Zenoss:
Enter the plain text password for ThousandEyes:
```

Note: If you are still not sure how to get the API token, please refer to:
https://docs.thousandeyes.com/product-documentation/getting-started/getting-started-with-the-thousandeyes-api

After execution

Once the script finishes its execution, the hashes will be added to the encrypted_password.txt file that will be created in the same directory where the script lives.

Once you have the hashes, navigate to the /config folder within the AIS base directory and edit the application.yaml file. On the "passwords" fields put the hashes created enclosed with ENC() just as in the example below:

```
services:
  - name: zenoss
    zenossUsername: 'thousandeyesapi'
    zenossPassword: ENC(XXXXXXXXXXXXXXX+FekNr5jTmOXmXXXXXXXXXXX)
    zenossWebhookURL: 'https://webhook.site/880f4b04-91a1-44fe-83f2-2f6b77f8a201'
    zenossEvClass: '/1000Eyes'
    zenossEvClassKey: ''
```

New AIS implementation

<u>For any new AIS implementation</u> make sure that the service includes the *"Environment"* variable with the secret key that you used when running the encrypt.sh script. The file you should modify to accomplish this is: ***/etc/systemd/system/alert-integration-service.service***. And the line you need to add should be: **Environment="JASYPT_ENCRYPTOR_PASSWORD=mySecretKey".** Just be sure to replace "mySecretKey" with your own key. At the end the file should look something like:

```
[Unit]
Description=Alert Integration Service

[Service]
Environment="JASYPT_ENCRYPTOR_PASSWORD=mySecretKey"
WorkingDirectory=/home/centos/AIS/
SyslogIdentifier=Alert Integration Service
User=root
ExecStart=/bin/bash -c "/bin/java -jar /home/centos/AIS//AlertIntegrationService.jar --s
pring.config.location=/home/centos/AIS//config/application.yaml"
Type=simple
Restart=always

[Install]
WantedBy=multi-user.target
```

Once the file has been modify, restart the daemon and the service:

```
Unset
systemctl daemon-reload
systemctl restart alert-integration-service.service
```

Errata

While AIS is operating

The latest AIS version for Netapp 2.5.4 includes a new set of logs that automatically will be generated within the AIS base directory /logs.

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Apache License

Name	Version	License
jasypt	2.0	Apache License

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Version 2.0, January 2004
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