

Domain 04 Demo 08

Implementing Encryption Solutions for Data at Rest Using AESCrypt

Objective: To Implement encryption solutions for data at rest using AESCrypt to protect sensitive information from unauthorized access, ensuring confidentiality, integrity, and security during storage and transmission

Tools required: Windows Server 2022 VM and AESCrypt

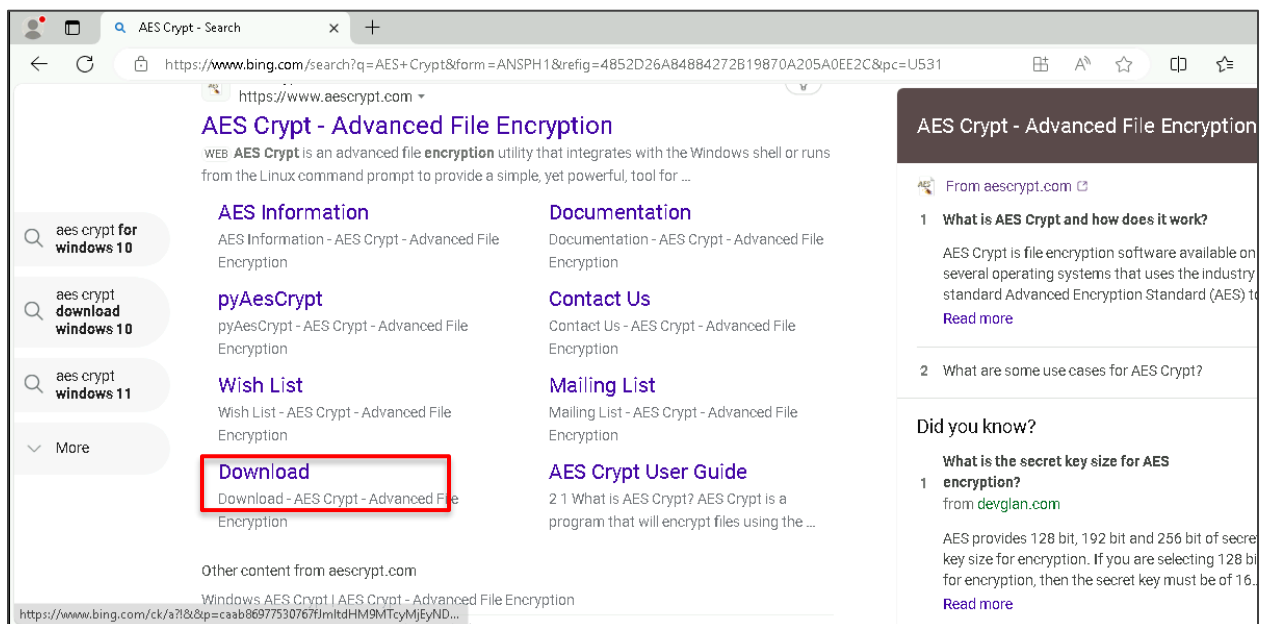
Prerequisites: None

Steps to be followed:

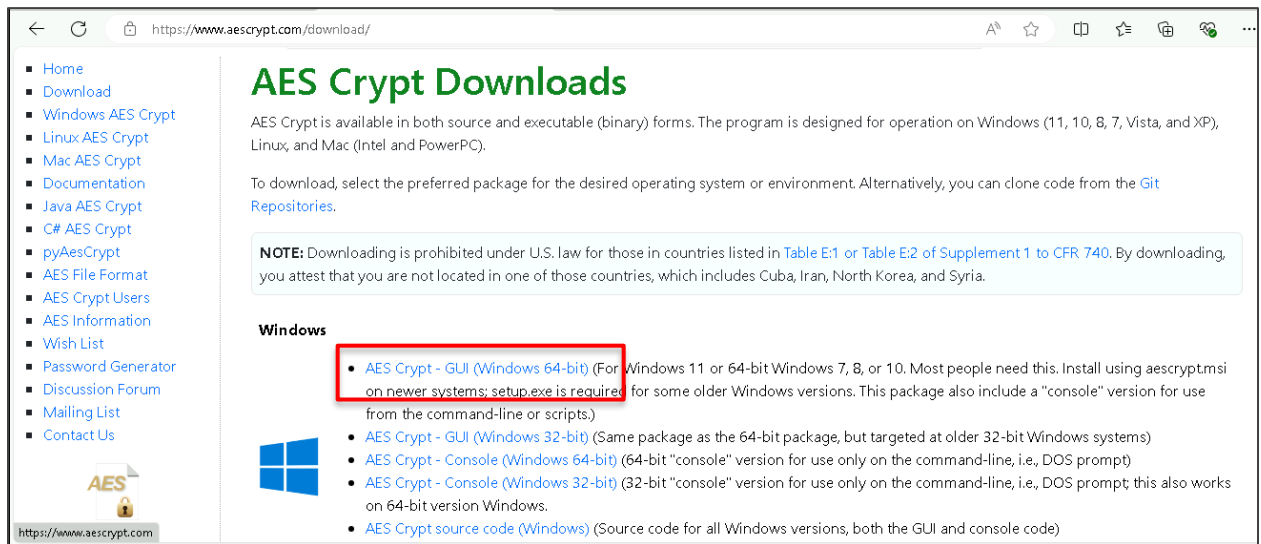
1. Install AESCrypt
2. Create a text file and encrypt it using AESCrypt

Step 1: Install AESCrypt

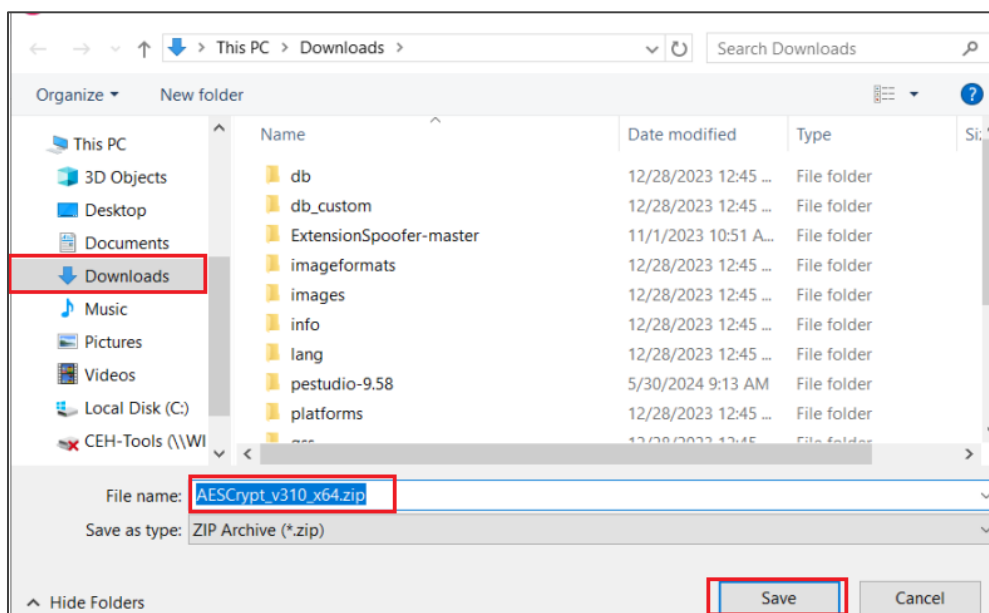
1.1 Open the browser, search for AES Crypt, and click on Download



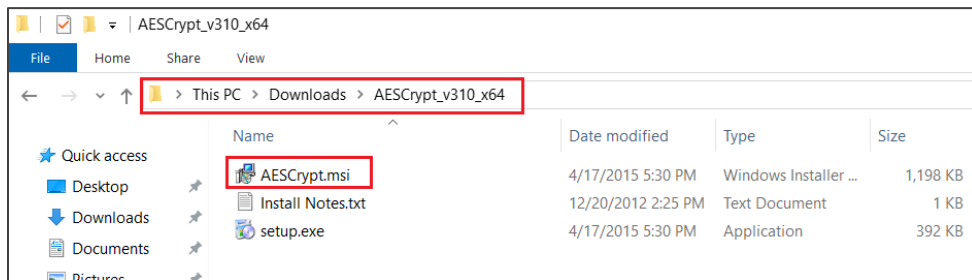
1.2 Click on AES Crypt - GUI (Windows 64-bit)



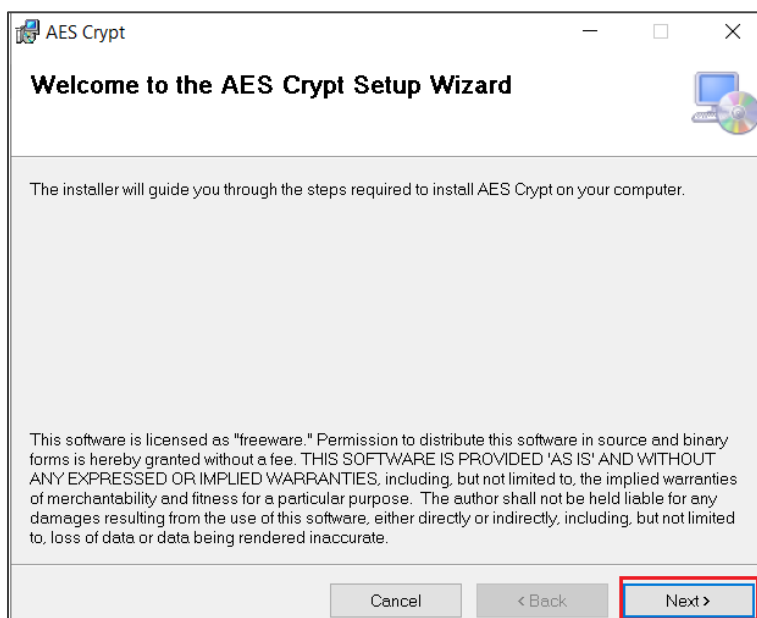
1.3 Once you download AESCrypt, save it in the Downloads folder



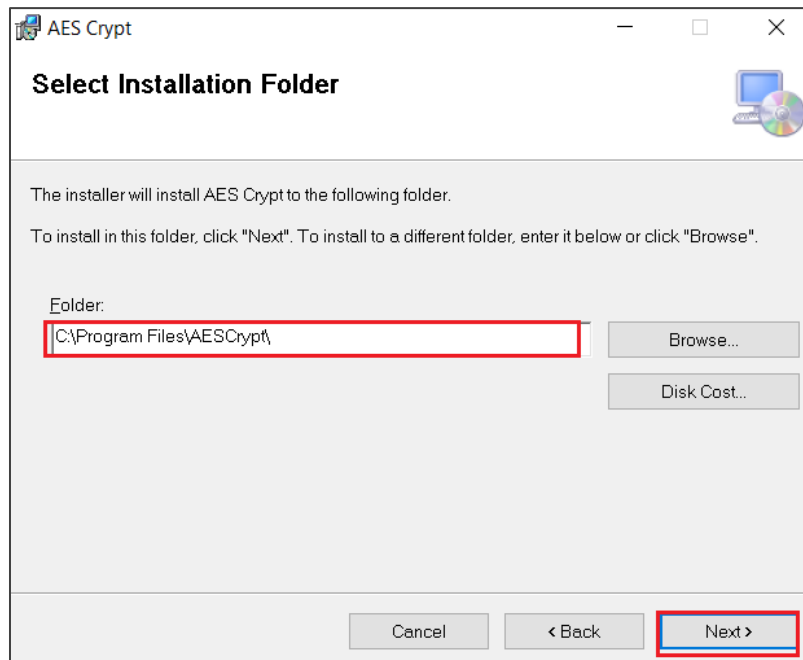
1.4 Now, run the **AESCrypt.msi** file by double-clicking on it



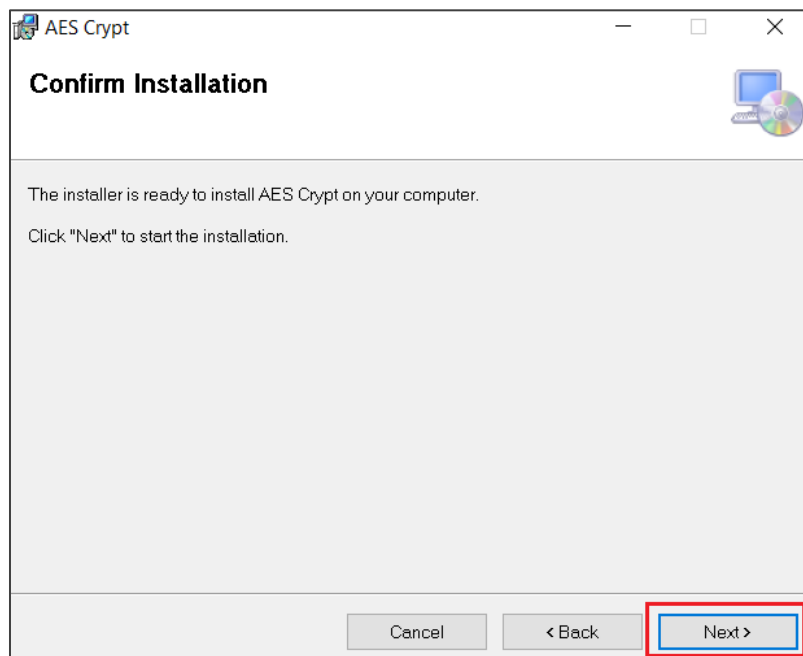
1.5 Click on **Next**



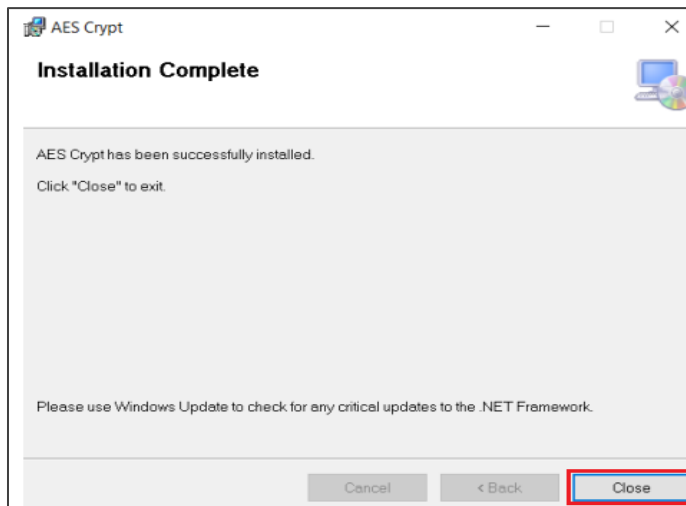
1.6 Select the location where the application will be installed and click on **Next**



1.7 Click on **Next** to start the installation

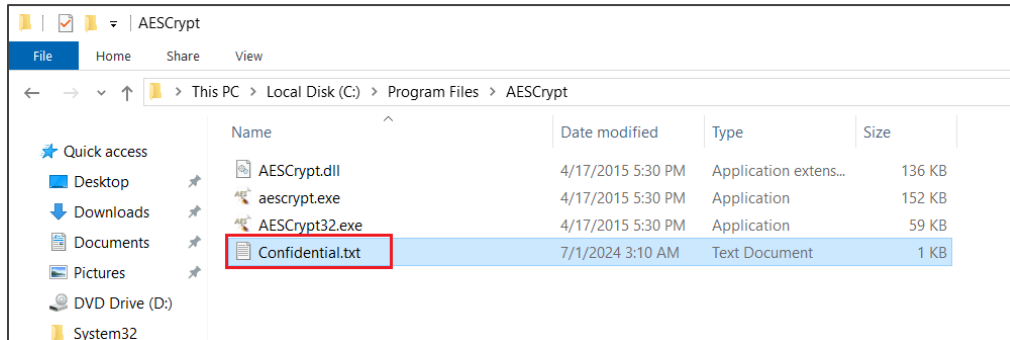


1.8 After the installation is complete, click on **Close**



Step 2: Create a text file and encrypt it using AESCrypt

2.1 Create a text file named **Confidential.txt** in the directory in which AESCrypt is downloaded to encrypt it

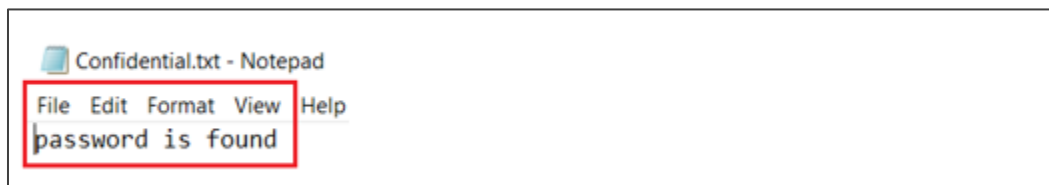
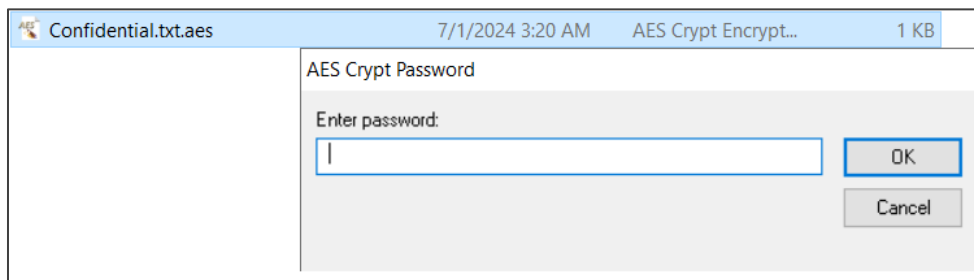


2.2 Open the command prompt and run the following command to encrypt the file:
aescrypt -e -p apples Confidential.txt

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C:\Program Files\AESCrypt>aescrypt -e -p apples Confidential.txt
```

Note: Make sure you remove the Confidential.txt file after creating it to keep only the encrypted file [In the command, **apples** is the password.]

2.3 Now, open the **Confidential.txt.aes** file and enter the password as **apples** as mentioned in the above step



You can see the message password is found in the Confidential.txt file.

By following these steps, you have successfully implemented encryption solutions for data at rest using AESCrypt to protect sensitive information from unauthorized access, ensuring confidentiality, integrity, and security during storage and transmission.