ProfileUnity Database Backup (v5.4)

Description

This PowerShell script automates the backup process for the ProfileUnity Web Console. It triggers a server-side database backup, monitors progress, downloads the resulting file, verifies file integrity, and logs out the administrative session.

How to Use

1. Prerequisites

- **PowerShell 5.1 or higher: Ensure your execution policy allows script execution.**

PowerShell

Set-ExecutionPolicy -ExecutionPolicy RemoteSigned -Force

- **Network Access: The machine running the script must be able to reach the ProfileUnity server on Port 8000 via HTTPS.**

2. Setup: Generate Secure Credentials

To run as an automated task, you must create an encrypted "Lock and Key" pair so the password is not stored in plain text.

Script: MakeSecurePasswordfile-AES.ps1

PowerShell

$here = if ($PSScriptRoot) { $PSScriptRoot } else { $pwd.Path }

$credObject = Get-Credential # Enter your ProfileUnity Admin credentials

$passwordSecureString = $credObject.Password

$AESKeyFilePath = Join-Path $here 'aeskey.bin'

$credentialFilePath = Join-Path $here 'password.enc'

 # Generate 256-bit AES Key

$AESKey = New-Object byte[] 32

[Security.Cryptography.RandomNumberGenerator]::Create().GetBytes($AESKey)

Save the key (Raw Bytes) and the encrypted password

Set-Content -Path $AESKeyFilePath -Value $AESKey -Encoding Byte

$encrypted = $passwordSecureString | ConvertFrom-SecureString -Key $AESKey

Set-Content -Path $credentialFilePath -Value $encrypted -Encoding UTF8

Write-Host "Files saved to $here. Secure these files with NTFS permissions!"

3. Execution Example

Run the backup script using the following syntax. Replace the placeholders with your specific environment details.

PowerShell

```
.\BackupDBv5_1.ps1 `
 -ServerName "PU-SERVER.DOMAIN.COM" `
 -User "AdminUserName" `
 -AESKeyFileLocation "C:\Path\To\aeskey.bin" `
 -PasswordFileLocation "C:\Path\To\password.enc" `
 -SavePath "C:\Path\To\Backup\Folder" `
 -PurgeOld `
 -BackupCount 5
```

Parameter Reference

Parameter	Mandatory	Description
-ServerName	Yes	FQDN or IP of the ProfileUnity Server.
-User	Yes	The ProfileUnity administrative username.
-AESKeyFileLocation	No	Path to aeskey.bin. Defaults to script folder.

Parameter	Mandatory	Description
-PasswordFileLocation	No	Path to password.enc. Defaults to script folder.
-SavePath	No	Destination for ZIP backups. Defaults to script folder.
-PurgeOld	No	Switch. If present, deletes older local backups.
-BackupCount	No	Number of local backups to retain (Default: 3).

Automation (Task Scheduler)

To run this automatically:

1. Open Task Scheduler and create a New Task.

2. General: Run whether user is logged on or not; Run with highest privileges.

3. Action: Start a Program.

4. Program/script: powershell.exe

5. Add arguments (example):

Plaintext

```
-ExecutionPolicy Bypass -File "C:\Scripts\BackupDBv5_1.ps1" -ServerName "PU-SERVER.DOMAIN.COM" -User "Admin" -SavePath "D:\Backups" -PurgeOld -BackupCount 5
```

Verified OS Versions

- **Windows Server 2016 / 2019 / 2022 / 2025: Yes**

- **Windows 10 / 11: Yes**

- **PowerShell Version: 5.1 (Desktop) and 7+ (Core)**