

PowerShell-Script Signing

Script Signing in PowerShell

PowerShell uses a security feature called **Script Signing** to help prevent malicious scripts from being executed on your system. When you sign a script, you're essentially attaching a digital signature that verifies the identity of the script author and ensures that the script has not been tampered with.

Here's how it works:

1. **Digital Signature:** You use a tool like `Sign-Script` to create a digital signature for your script.
2. **Certificate:** The digital signature is tied to a certificate, which contains information about you (the author) and your organization.
3. **Trust:** When PowerShell executes the signed script, it checks the certificate's trust status. If the certificate is trusted, the script is executed.

Example: Signing a Script

Let's say we have a simple PowerShell script called `MyScript.ps1`:

```
# MyScript.ps1  
  
Write-Host "Hello, World!"
```

To sign this script using a digital certificate (e.g., `MyCert.pfx`), use the following command:

```
$certPath = "C:\path\to\MyCert.pfx"  
$certPassword = ConvertTo-SecureString "mysecretpassword" -AsPlainText -Force  
  
Sign-Script -Certificate $certPath -Password $certPassword -FilePath .\MyScript.ps1
```

This command uses the `Sign-Script` cmdlet to attach a digital signature to `MyScript.ps1`.

Executing a Signed Script

To execute the signed script, you need to set the execution policy to allow scripts to run:

```
Set-ExecutionPolicy RemoteSigned -Scope CurrentUser
```

Then, you can run the signed script using:

```
.\MyScript.ps1
```

PowerShell will verify the digital signature and execute the script if it's trusted.

Important Notes

- To sign scripts, you need a valid digital certificate.
- The `Sign-Script` cmdlet requires administrative privileges to function correctly.
- When signing scripts, make sure to use a secure password and store your private key securely.

By following these steps, you can ensure that your PowerShell scripts are executed safely and securely.

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