CNT 4603: System Administration Spring 2015

Project Seven – PowerShell Scripting And Digitally Signing Scripts

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Project Seven

- **Title:** "Project Seven: PowerShell Scripting And Digitally Signing Scripts"
- **Points:** 50 points
- **Due Date:** April 19, 2015 by 11:59 pm WebCourses time.
- **Objectives:** To create a PowerShell script using best standards and practices for script creation and to digitally sign the script.
- Deliverables:
 - 1. Screen shots as shown on pages 6, 7, 8, 9, 10, and 11.
 - 2. The digitally signed source code for your script.



Project Seven – Background

- We'll focus on PowerShell scripting for this assignment. While we haven't dealt with all of the various aspects of PowerShell scripting, we have covered enough in the lecture notes for you to be able to create a useful system administrator script.
- In keeping with the discussions in PowerShell Parts 3 and 5 lecture notes, that dealt with best practices and standards for scripting, you will need to follow these principles for this project. Namely, in the overall layout of the script, naming conventions, and appending a digital signature to your script.
- Use either your Mark-Server1 or Mark-Server2 for this project. You'll need PowerShell Version 2.

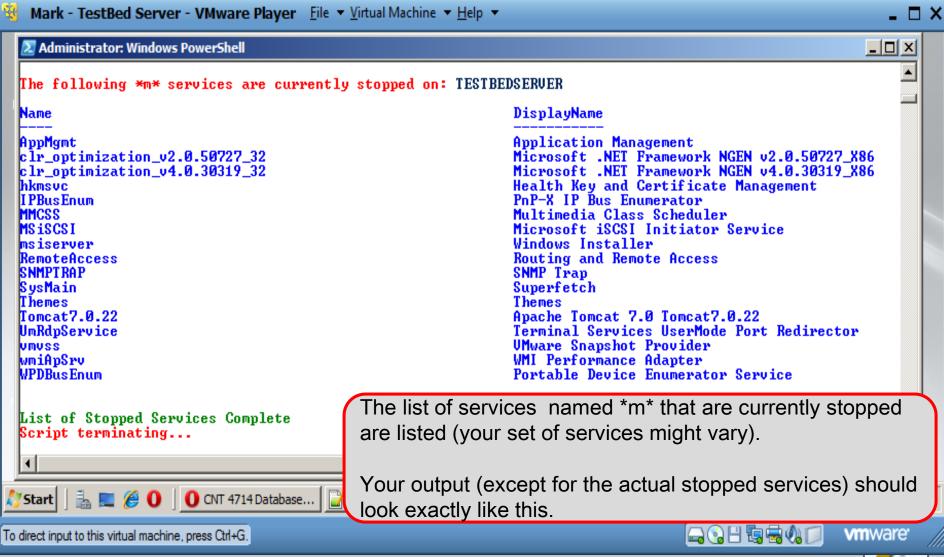


Project Seven – Background

- The script you will create will list all of the currently stopped, on the server where the script is executed, that begin with a certain, user supplied (an input parameter to the script), prefix (e.g., A*, *c*, m*, A*, or some variation).
- Your script should be named according to the verb-noun conventions we discussed (see page 38 part 3 notes).
- Your script should follow a professional format (see pages 12-on in part 5 notes).
- The pages that follow explain the details of the project, stepping you through the actions. In the various callouts, the items that appear in **bold green** text require you to do screen captures and/or answer questions. These screen captures and answers will constitute your submission for this project. Be sure that your server's name is visible in all screenshots.



Project Seven – Output of the Script



Project Seven – Creating The Digital Signature

Administrator: Command Prompt

Microsoft Windows [Version 6.0.6002] Copyright (c) 2006 Microsoft Corporation. 91]

C:\Users\Administrator>cd ..

C:\Users>cd..

C:∖>cd program files

C:\Program Files>cd microsoft.net

C:\Program Files\Microsof(.NET)cd sdk

C:\Program Files\Microsoft.NET\SDK>cd v2.0

C:\Program Files\Microsoft.NET\SDK\v2.0>cd bin

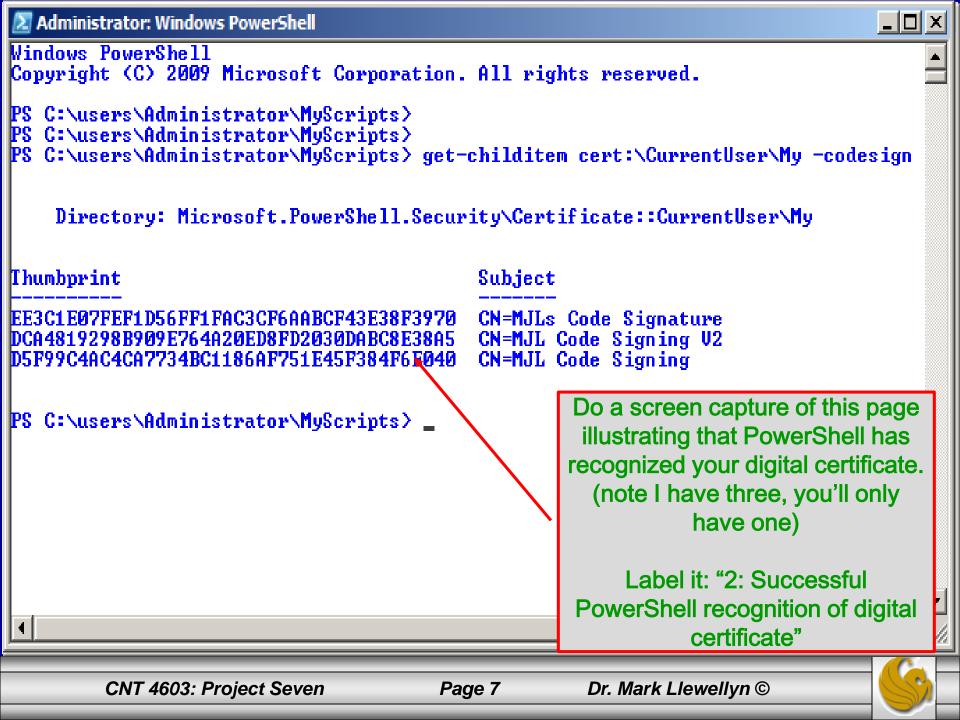
C:\Program Files\Microsoft.NET\SDK\v2.0\Bin>makecert -r -pe -n "CN=MJLs Code Sig nature" -b 03/15/2015 -e 12/31/2017 -eku 1.3.6.1.5.5.7.3.3 -ss My

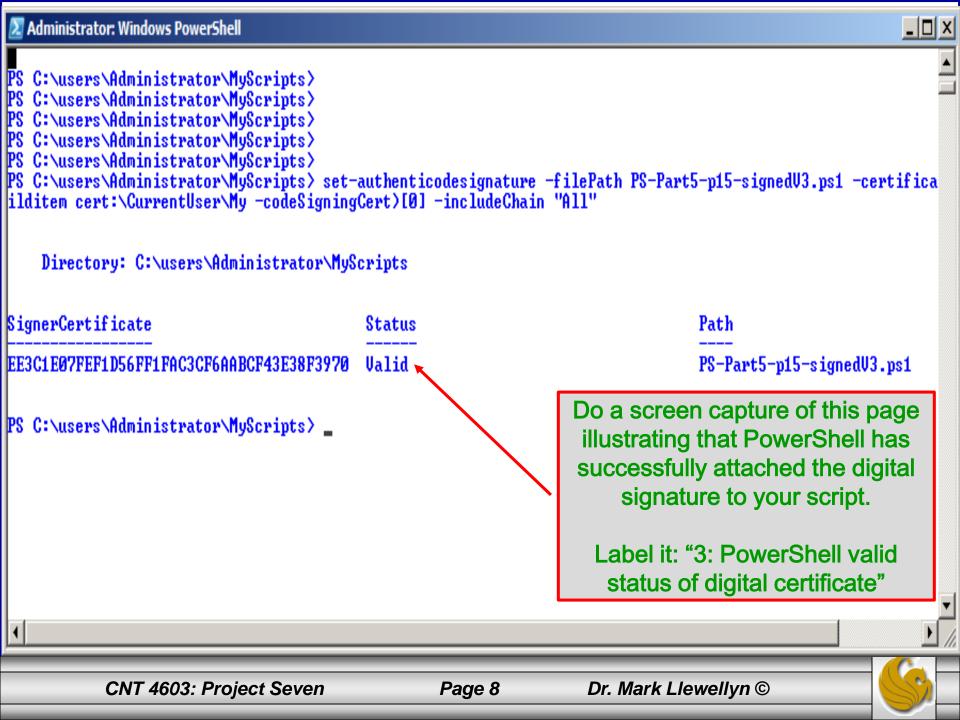
Succeeded.

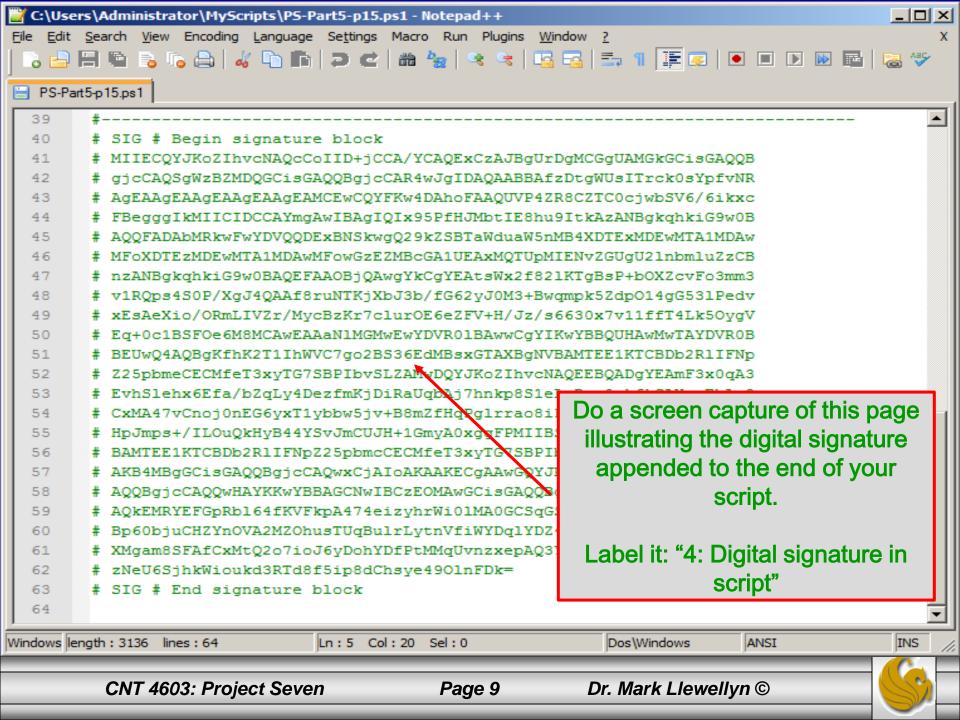
C:\Program Files\Microsoft.NET\SDK\v2.0\Bin>

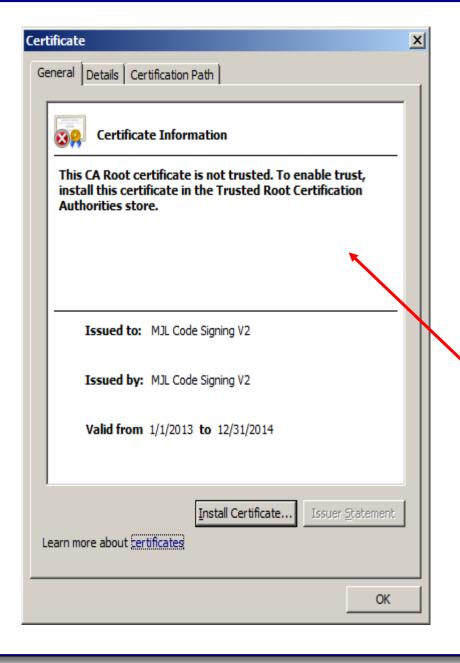
Do a screen capture of this page illustrating the creation of your digital signature

Label it: "1: Successful digital signature creation"









Do a screen capture of this dialog that appears during the process of registering your CA.

Label it: "5: Preparing to install certificate."



Project Seven – Output of the Script

