# CNT 4603: System Administration Spring 2022

Project Six – Managing The savn.local Domain – Part 2 – Task Scheduling and PowerShell Scripting

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Office Hours Zoom Details: Meeting ID: 924 3809 7405

Passcode: 983064

Q&A Sessions via Zoom: Meeting ID: 981 8349 4221

Passcode: 509807

Department of Computer Science University of Central Florida



## **Project Six**

- Title: "Project Six: Managing The savn.local Domain Part 2 Task Scheduling and PowerShell Scripting
- **Points:** 100 points
- **Due Date: Tuesday April 26, 20221** by 11:59 pm WebCourses time. NOTE: This is not the normal submission day.
- **Objectives:** Project Five was designed to give you a flavor of system administration on the savn.local domain, wherein you created different types of user accounts. Project Six will give you some experience with the Task Scheduler and PowerShell scripting. This task will focus on MJL-SP22-S22-1 and MJL-SP22-S22-2.
- **Deliverables:** Ten screen shots as shown on pages 15, 17, 18, 19, 20, 24, 25, 26, 27, and 28.



#### **Project Six**

Project Six has two main objectives. In Objective 1 you will create a non-local task relevant to the savn.local domain. In Objective 2, you will create a task that executes a PowerShell script.

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.



## **Project Six**

- In this project you will become more familiar with the Task Manager tool in Windows Server 2022 and, also, with PowerShell scripting. You will create and schedule two different tasks, one of which will execute a PowerShell script.
- As we've covered in the notes (Module 7, Part 1), the Task Manager has extensive capability for defining and scheduling tasks to run automatically on any server, both locally and remotely.
- This project has two different objectives related to task scheduling and PowerShell scripting:
  - (1) creating and scheduling a remote task.
  - (2) creating and scheduling a local task that executes a PowerShell script.



## Project Six - Objective One

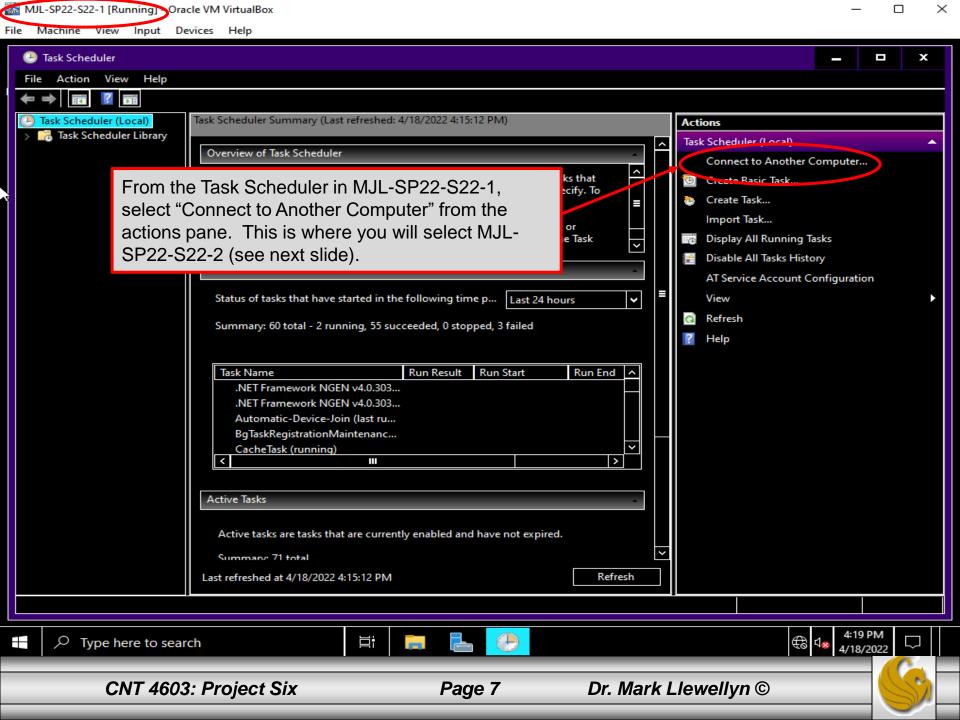
- In this first objective for the project, you will define and configure a remotely scheduled task.
- You may want to refer to the notes that dealt with the Task Scheduler for the details in creating and storing tasks.
- Notepad is a Windows application that comes as a part of all Windows operating systems, including Server 2022.
- The first part of this project is to create a task that will start Notepad running on MJL-SP22-S22-2 when the domain user (domainUser01) that you created in Project Five logs on to that machine.
- Note, the Administrator of the savn.local domain is the creator of this task and it is created via the Task Scheduler on MJL-SP22-S22-1, but the task is deployed on MJL-SP22-S22-2.

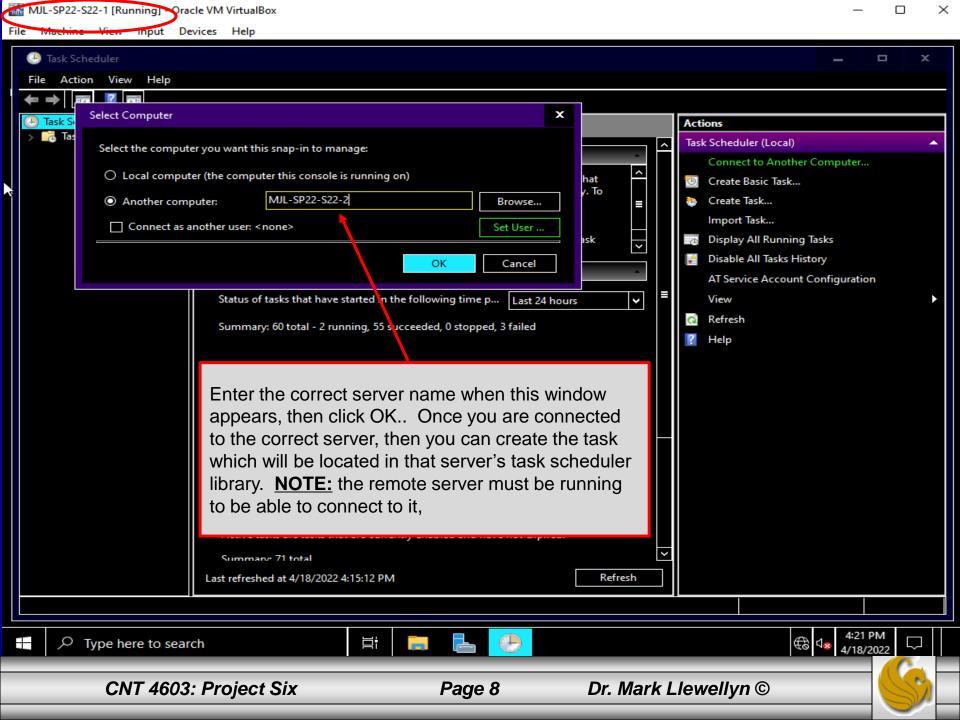


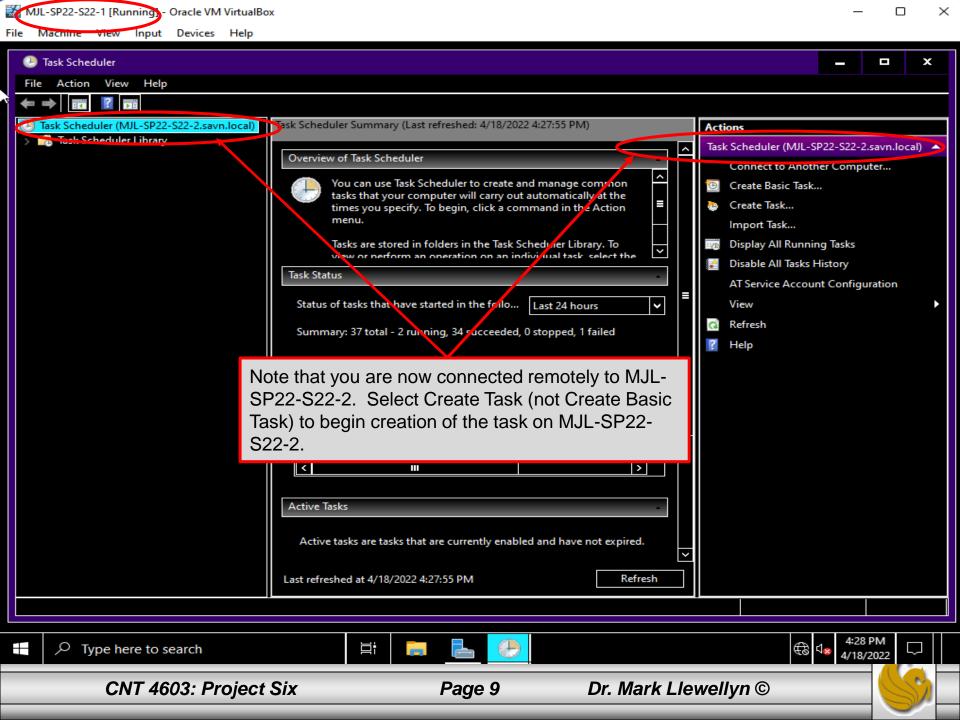
## Project Six – Objective One

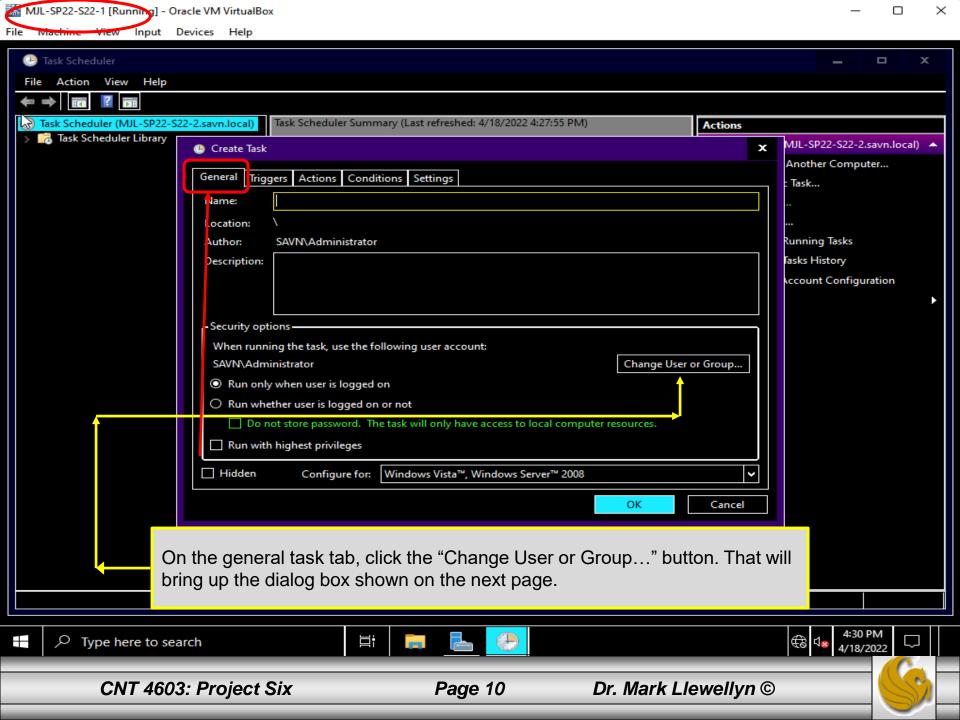
- Note that MJL-SP22-S22-2 must be running when the task is created on it from MJL-SP22-S22-1, however, no one needs to be logged into the system when the task is being created.
- Name your task: startNotePad

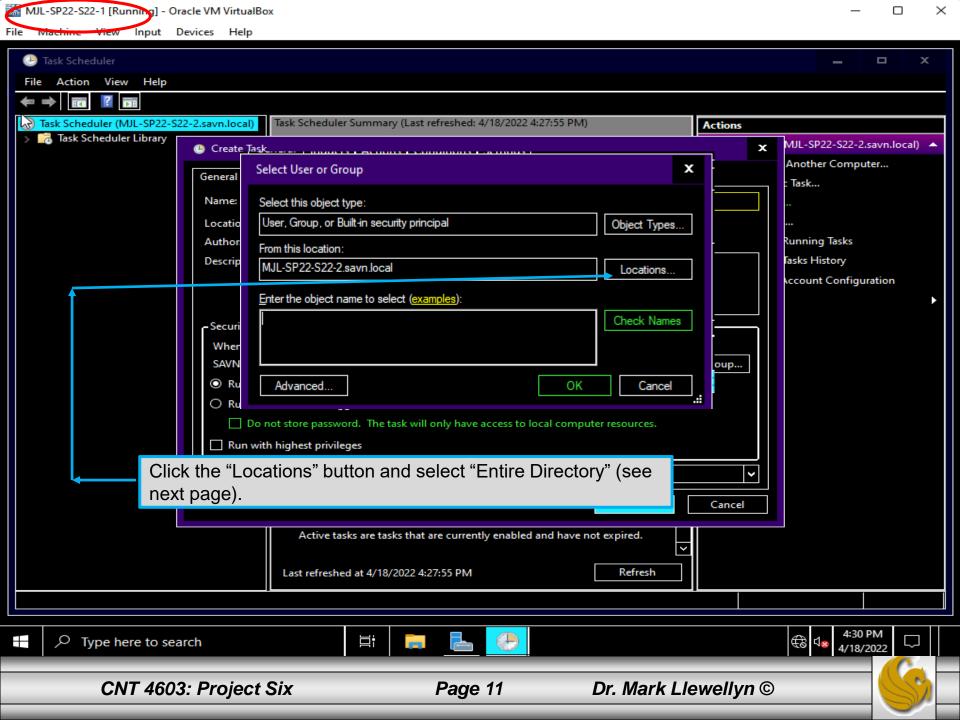


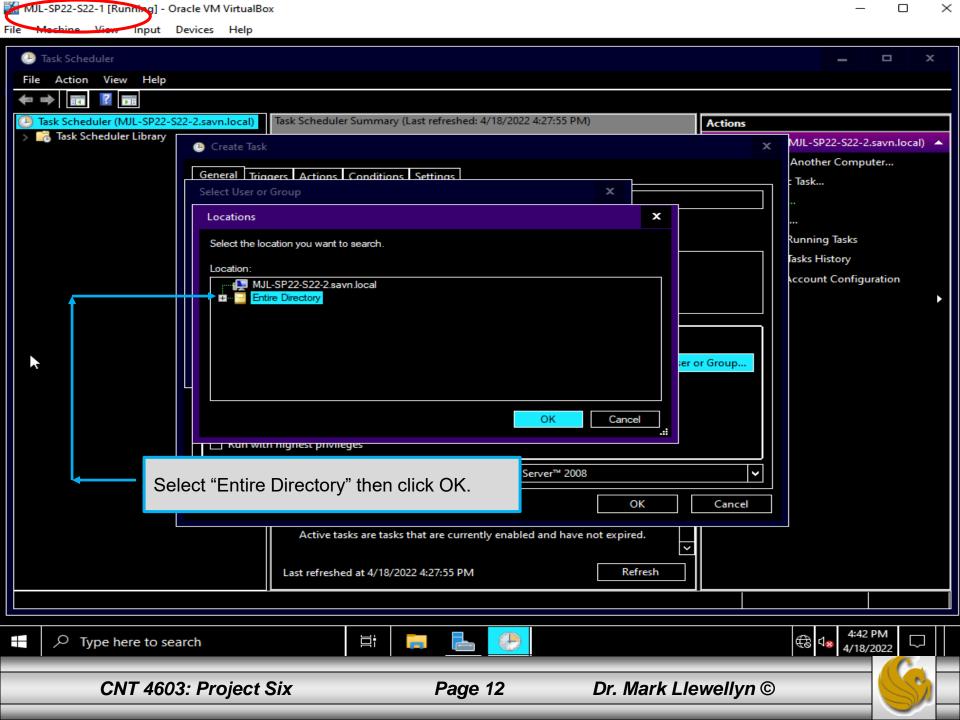


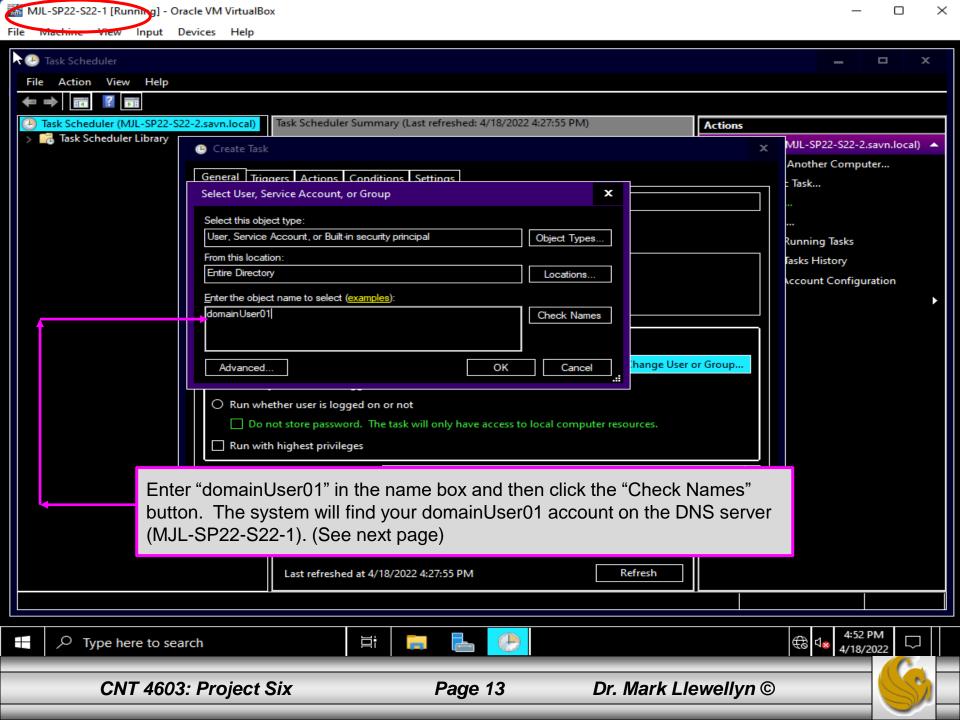


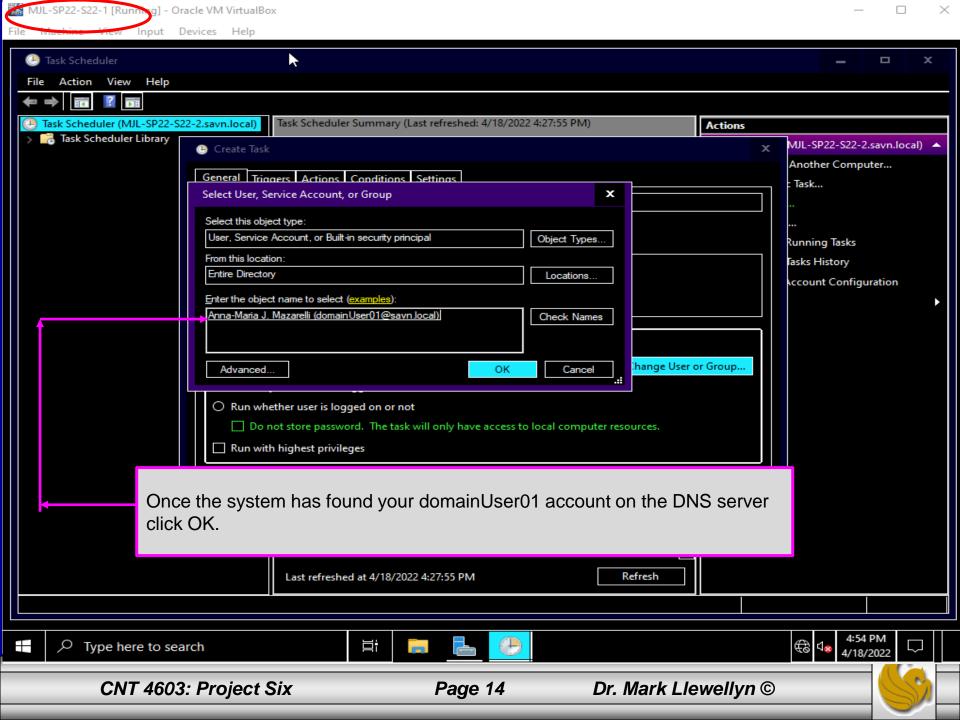


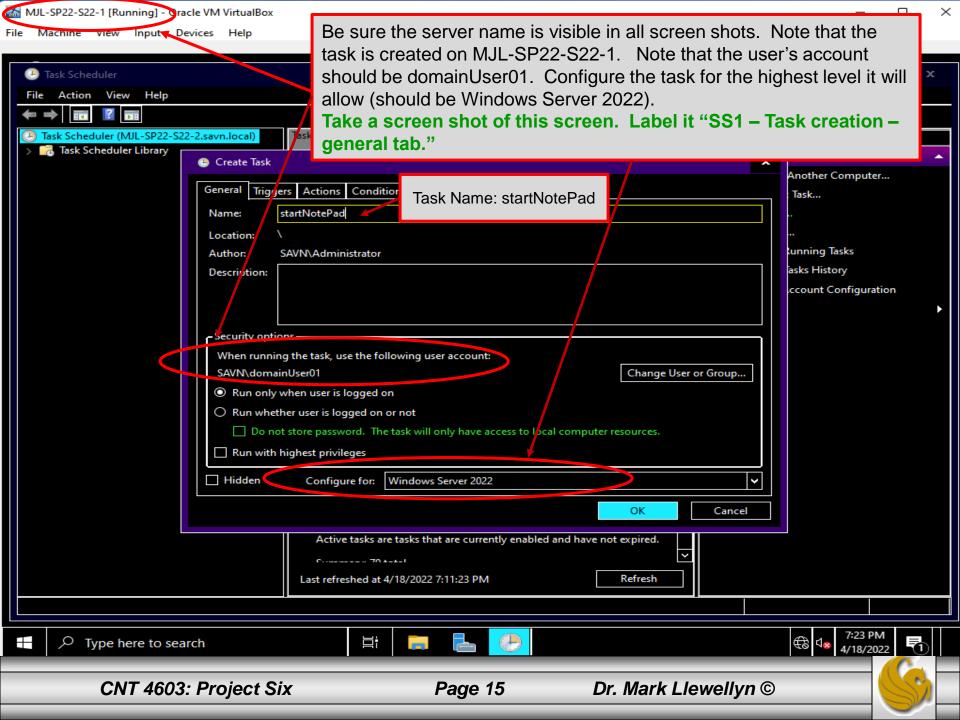


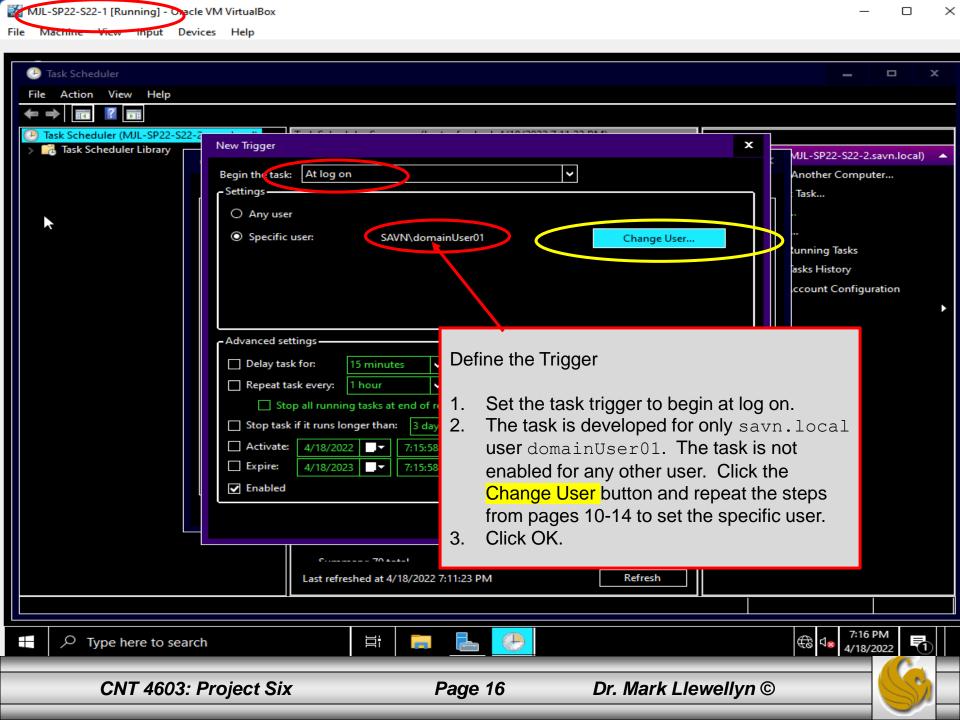


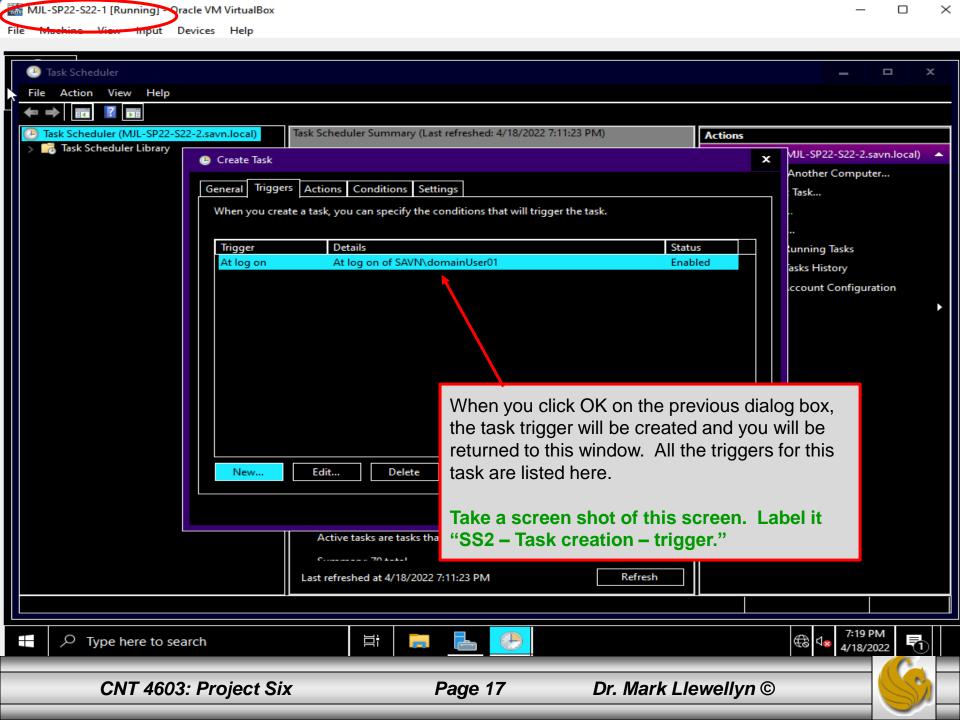


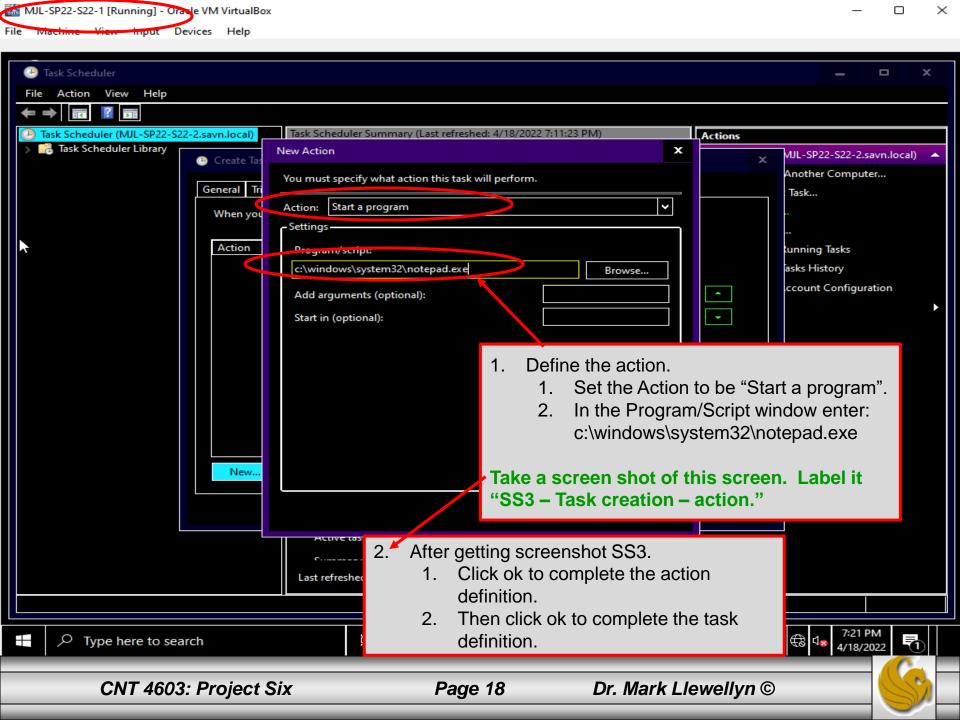


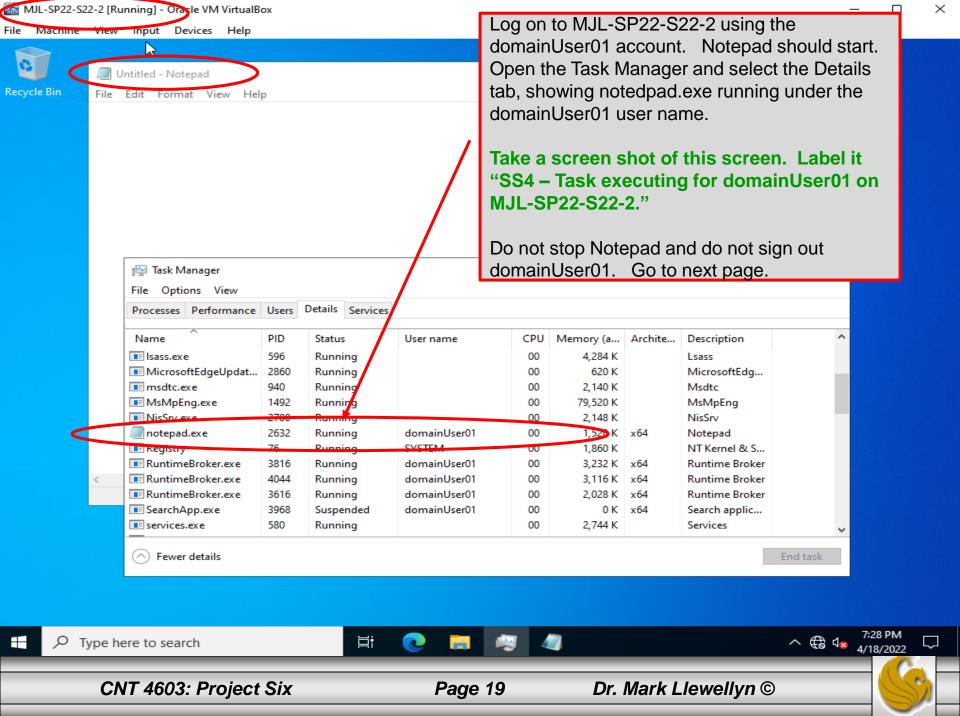


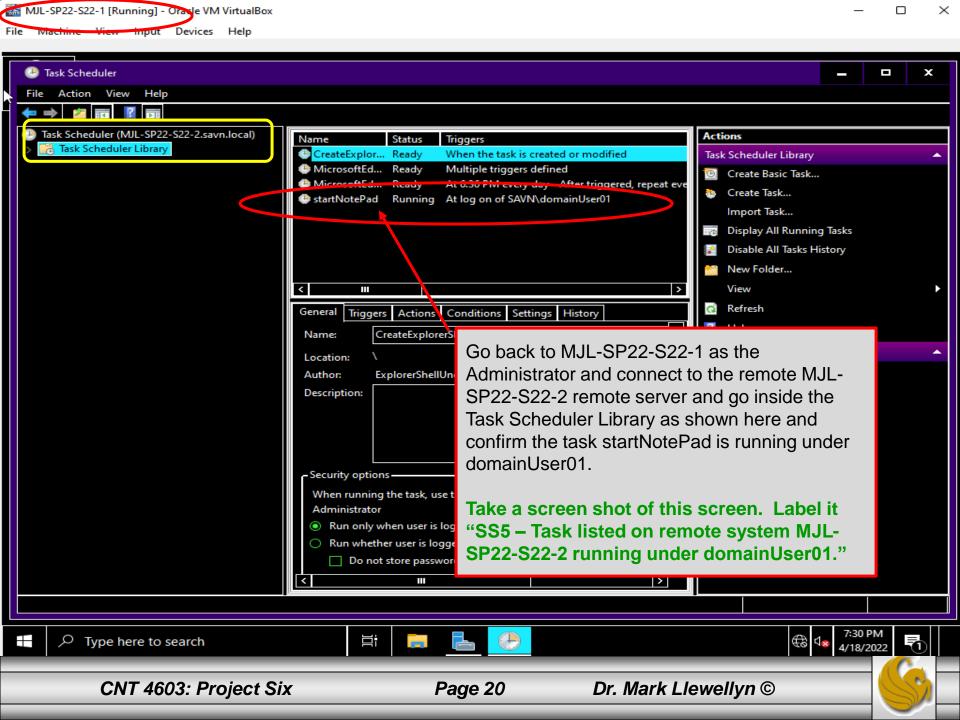












## Project Six – Objective Two

- The second objective for the project is to create a PowerShell script that will execute when any user logs on to MJL-SP22-S22-1.
- Create the PowerShell script using NotePad (or use the PowerShell ISE) on MJL-SP22-S22-1 and save it in the Administrator script library that we created in the notes (see PowerShell Scripting Part 1) named MyScripts (path is: c:\users\administrator\myscripts).
- The PowerShell script is a very simple one that simply prints two lines a welcome message and the line: "Today is: " followed by the actual date and time when the script is executed. Since we didn't have enough time for you to really get into PowerShell scripting, I will give you the entire script to be executed so that you do not need to develop it yourself.
- Name your script: get-datemessage.ps1.
- Name your task: displayDateMessage.
- Create the script first, then create the task.



## Project Six – Objective Two

• The PowerShell script is shown below as well as on the next page as viewed from within the PowerShell ISE on MJL-SP22-S22-1.

```
# A basic PowerShell script to print a welcome message and the date and
# time at the top of the PowerShell CLI prompt.
# created: 04/18/2022 - MJL (change to your initials)
#
# cmdlet name: get-datemessage.ps1
#
write-host " "
write-host "Welcome to MJL-SP22-S22-1" -Foregroundcolor White -Backgroundcolor Red write-host " "
write-host "Today is: "-Foregroundcolor Red -NoNewLine
$date = get-date
write-host $date -Foregroundcolor Yellow
write-host " "
```

- Name your script: get-datemessage.ps1.
- Name your task: displayDateMessage.



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