



## **Security+ Lab Series**

### **Lab 24: Performing Backups**

**Document Version: 2018-08-28**

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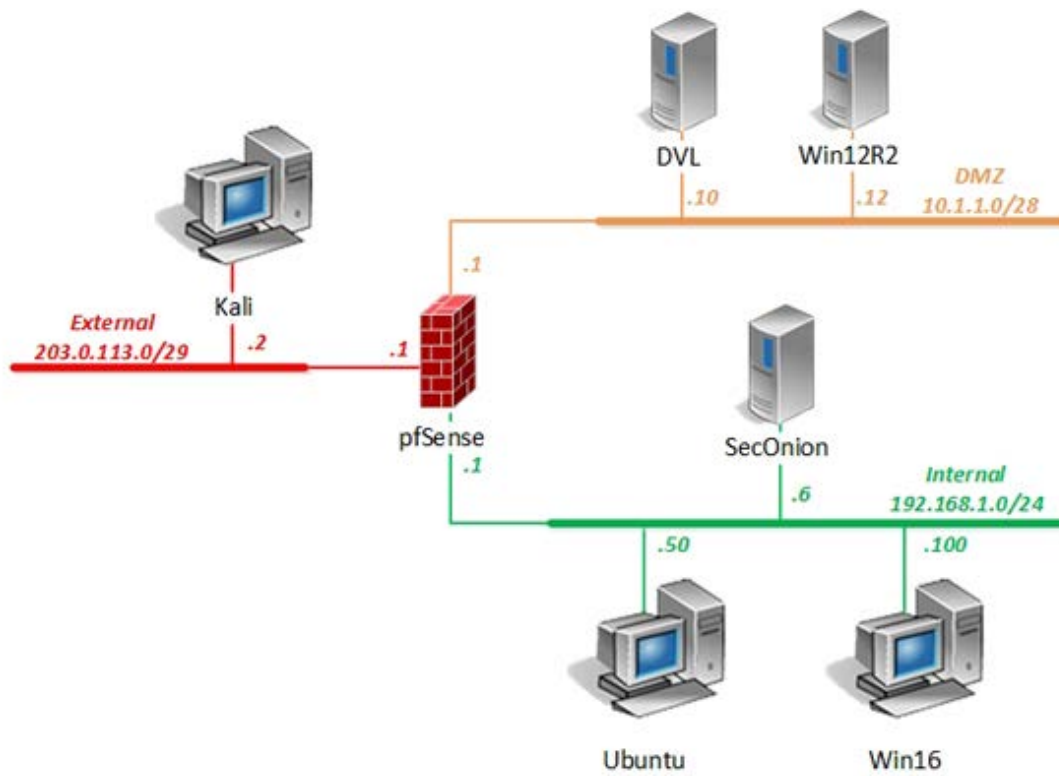
## Introduction

In this lab, you will configure a backup schedule on a *Windows* server. You will then customize the backup settings to back up the system state to a remote destination on the local network.

## Objectives

- Explain disaster recovery and continuity of operations concepts

## Lab Topology



## Lab Settings

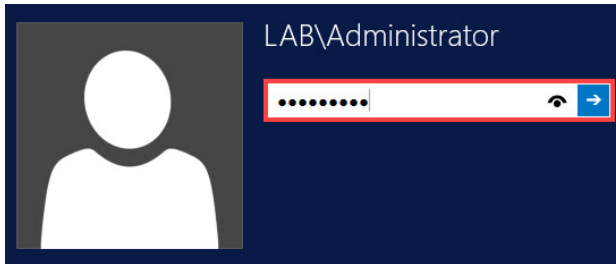
The information in the table below will be needed to complete the lab. The task sections below provide details on the use of this information.

Virtual Machine	IP Address	Account	Password
DVL	10. 1. 1. 10 /28	root	toor
Kali	203. 0. 113. 2 /29	root	toor
pfSense	eth0: 192. 168. 1. 1 /24 eth1: 10. 1. 1. 1 /28 eth2: 203. 0. 113. 1 /29	admin	pfsense
Sec0nion	192. 168. 1. 6 /24	soadmin	mypassword
		root	mypassword
Ubuntu	192. 168. 1. 50 /24	student	securepassword
		root	securepassword
Win12R2	10. 1. 1. 12 /28	administrator	Train1ng\$
Win16	192. 168. 1. 100 /24	lab-user	Train1ng\$
		Administrator	Train1ng\$

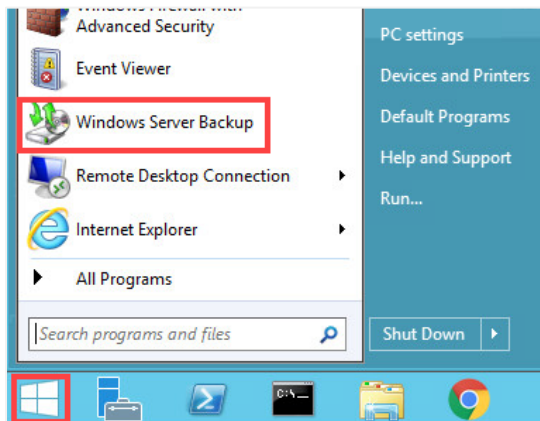
## 1 Schedule a Windows Server Backup

In this task, you will set up and schedule a *Windows* server backup. Then, you will customize the *Windows* server backup to target a remote destination on the network.

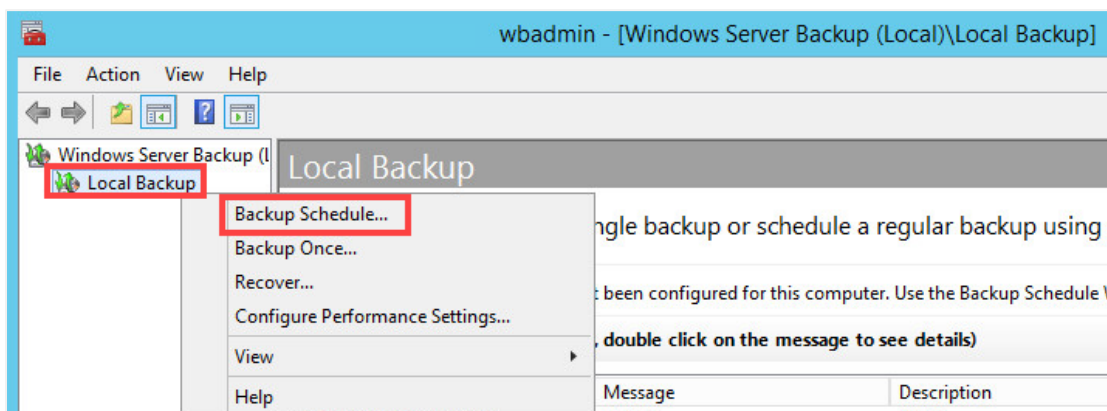
1. Launch the **Win12R2** virtual machine to access the graphical login screen.
2. While on the splash screen, focus on the *NETLAB+* tabs. Click the drop-down menu for the **Win12R2** tab and click on **Send CTRL+ALT+DEL**.
3. Log in as **Administrator** using the password **Train1ng\$**.



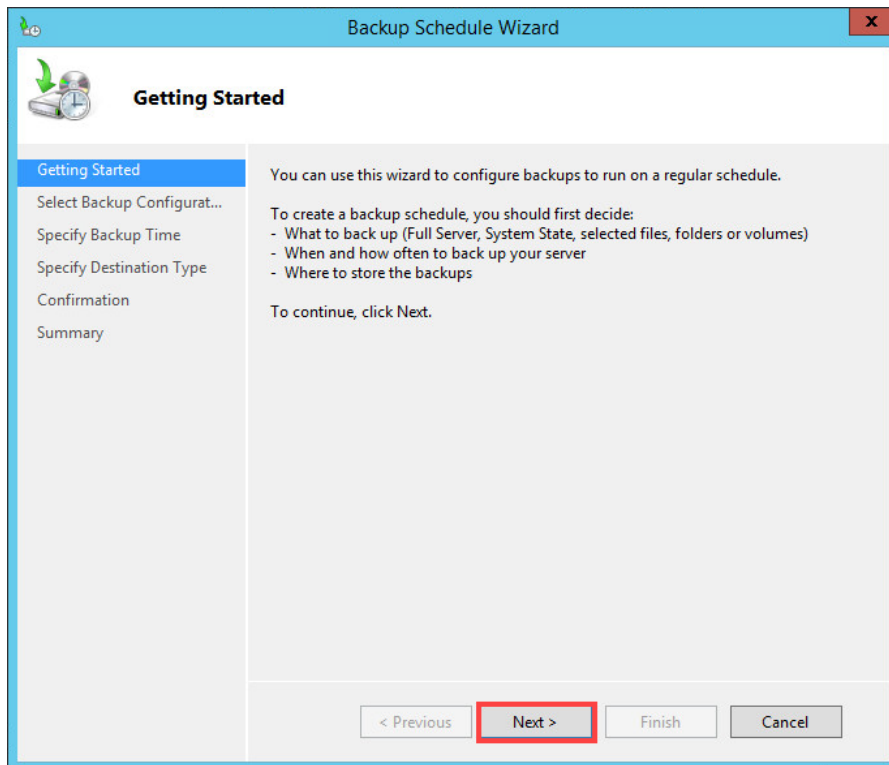
4. Click on the **Start** button and click on **Windows Server Backup**.



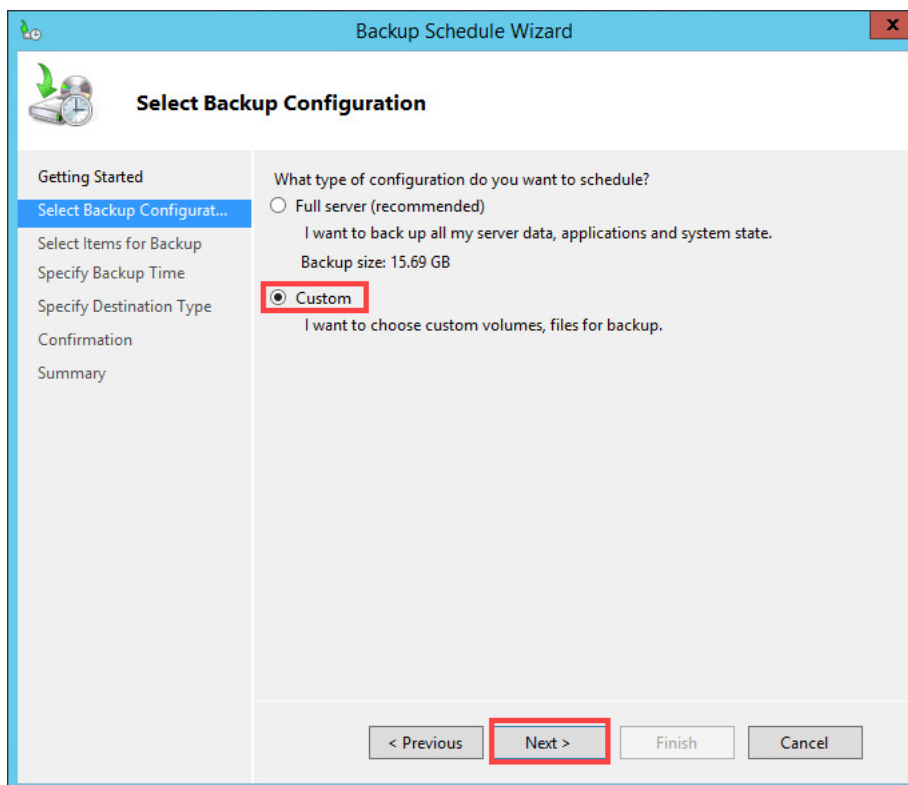
5. Notice the *wbadmin console* window appears. In the left pane, right-click on **Local Backup** and click on **Backup Schedule**.



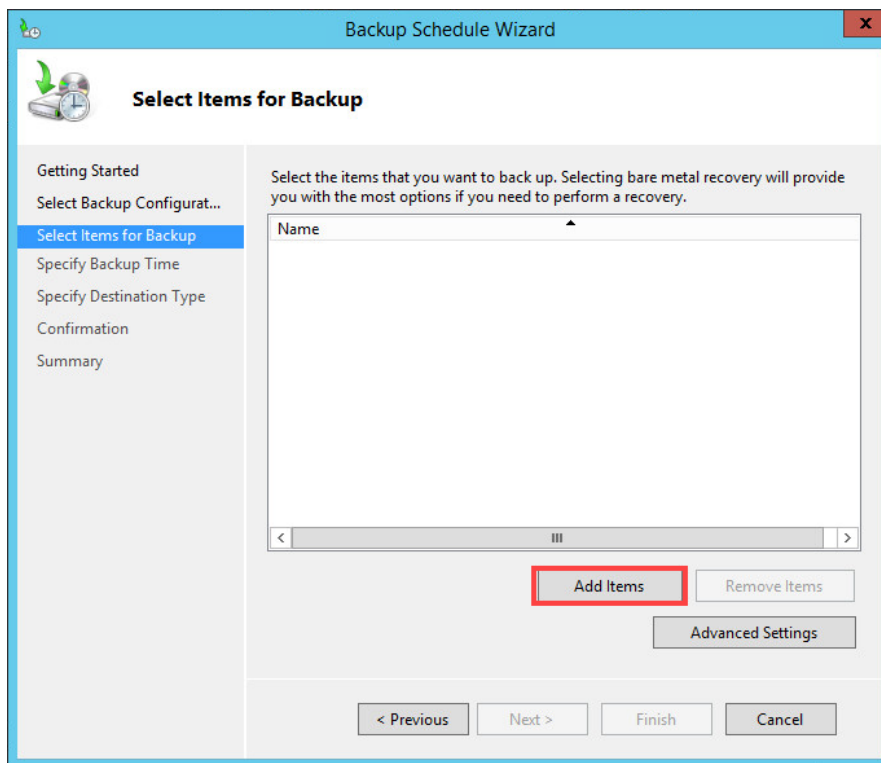
6. The *Backup Schedule Wizard* appears. On the *Getting Started* step, review the information and click **Next**.



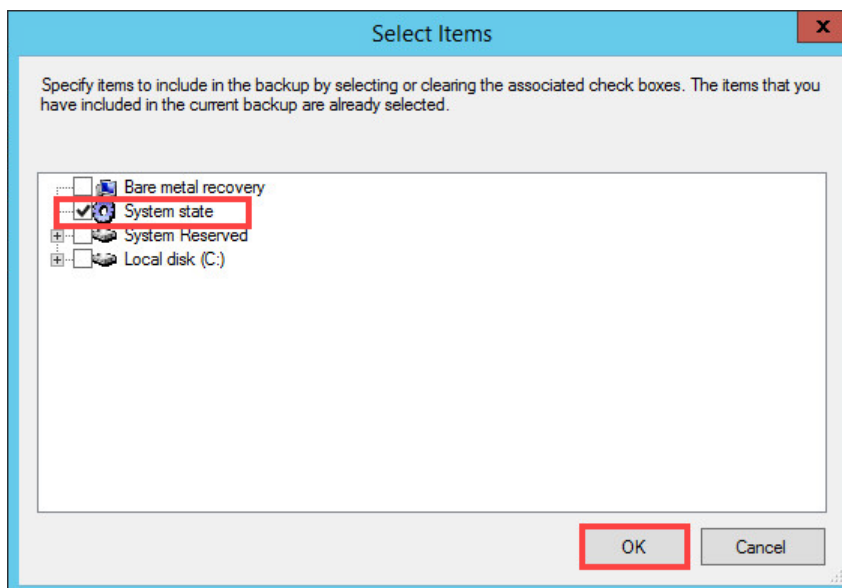
7. On the *Select Backup Configuration* step, select the radio button for **Custom** and click **Next**.



8. On the *Select Items for Backup* step, click on the **Add Items** button.

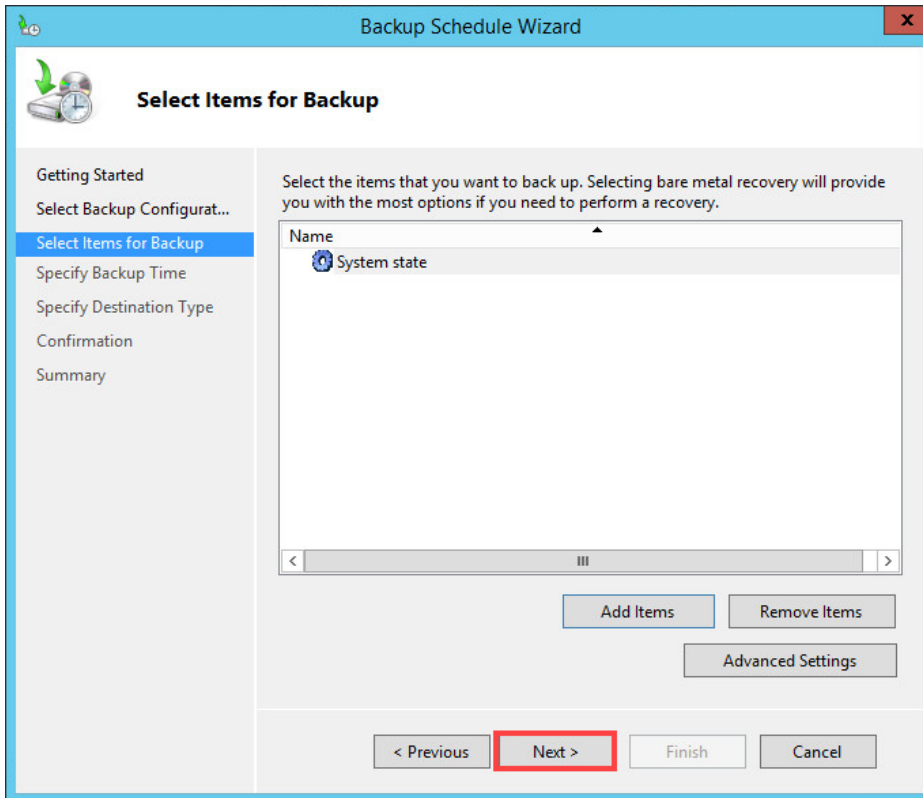


9. In the *Select Items* pop-up window, check the checkbox for **System state** and click **OK**.



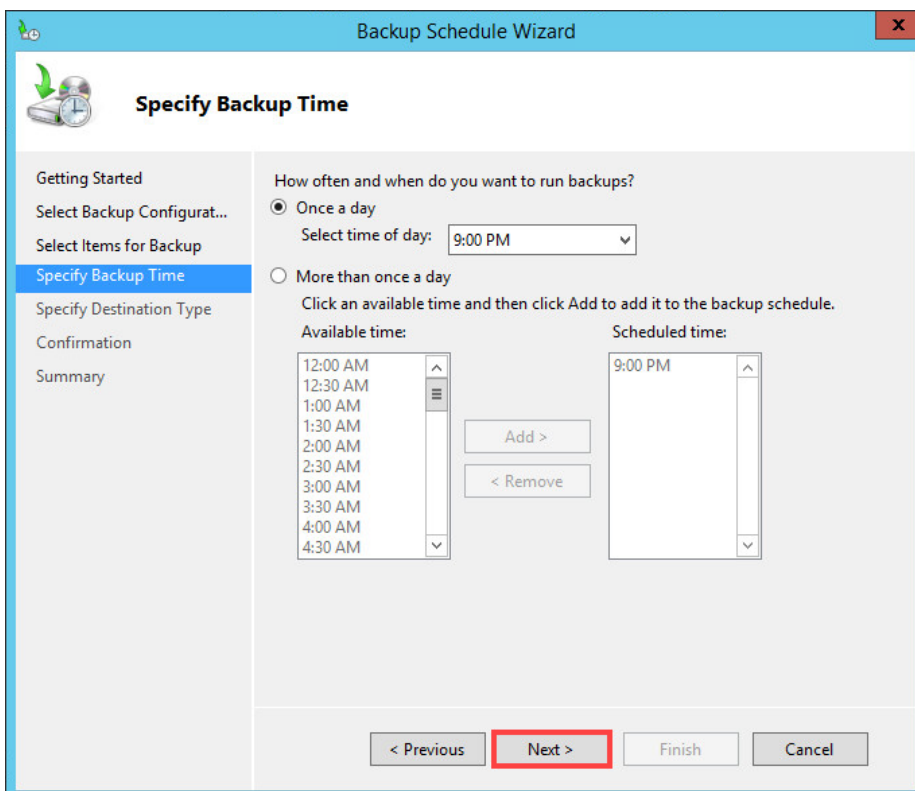


10. Back on the *Backup Schedule Wizard* window, ensure that *System state* is listed and click **Next**.



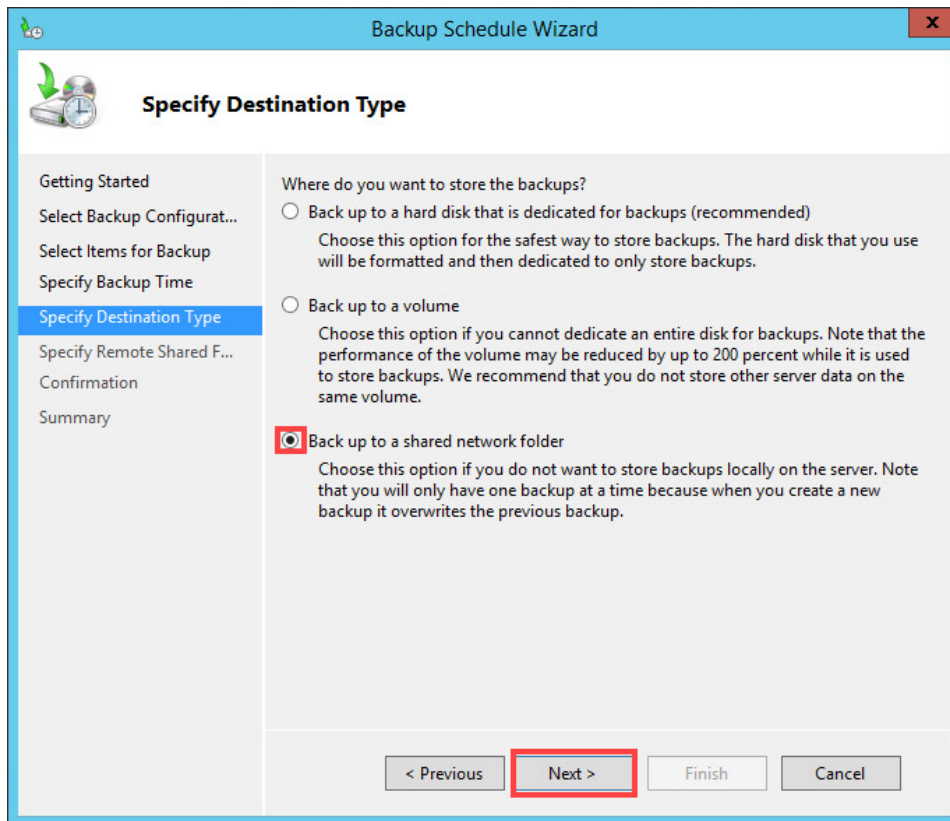
The screenshot shows the 'Select Items for Backup' step of the Backup Schedule Wizard. The left sidebar contains a list of steps: 'Getting Started', 'Select Backup Configurat...', 'Select Items for Backup' (highlighted), 'Specify Backup Time', 'Specify Destination Type', 'Confirmation', and 'Summary'. The main area has a title bar with a green arrow icon and the text 'Select Items for Backup'. Below the title bar is a list of items to back up, with 'System state' selected. A message states: 'Select the items that you want to back up. Selecting bare metal recovery will provide you with the most options if you need to perform a recovery.' At the bottom, there are buttons for '< Previous', 'Next >' (highlighted with a red box), 'Finish', and 'Cancel'. There are also buttons for 'Add Items', 'Remove Items', and 'Advanced Settings'.

11. On the *Specify Backup Time* step, leave the defaults and click **Next**.

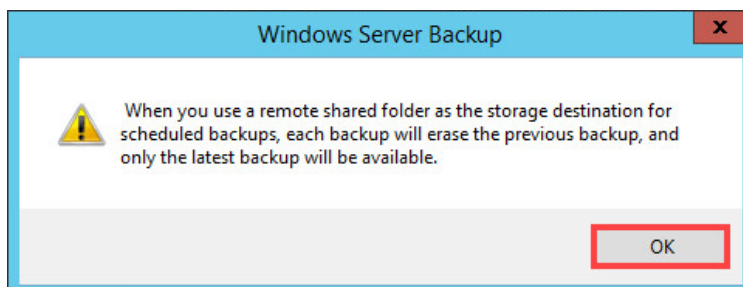


The screenshot shows the 'Specify Backup Time' step of the Backup Schedule Wizard. The left sidebar contains a list of steps: 'Getting Started', 'Select Backup Configurat...', 'Select Items for Backup', 'Specify Backup Time' (highlighted), 'Specify Destination Type', 'Confirmation', and 'Summary'. The main area has a title bar with a green arrow icon and the text 'Specify Backup Time'. Below the title bar is a section titled 'How often and when do you want to run backups?'. It has two radio buttons: 'Once a day' (selected) and 'More than once a day'. Under 'Once a day', there is a 'Select time of day:' dropdown menu showing '9:00 PM'. Under 'More than once a day', there is a message: 'Click an available time and then click Add to add it to the backup schedule.' Below this, there are two lists: 'Available time:' and 'Scheduled time:'. The 'Available time:' list shows times from 12:00 AM to 4:30 AM in 30-minute increments. The 'Scheduled time:' list shows '9:00 PM'. There are 'Add >' and '< Remove' buttons between the two lists. At the bottom, there are buttons for '< Previous', 'Next >' (highlighted with a red box), 'Finish', and 'Cancel'.

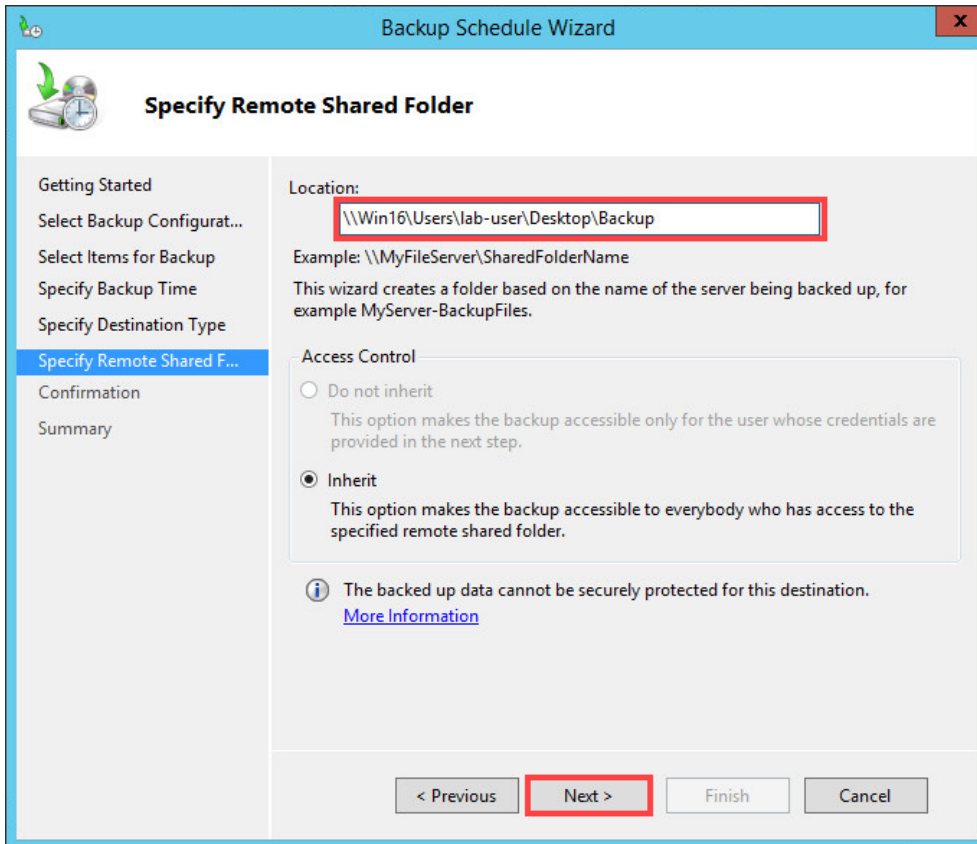
12. On the *Specify Destination Type* step, select the radio button for **Back up to a shared network folder** and click **Next**.



13. Notice a pop-up message appears discussing the location of the remote backup, click **OK** to continue.

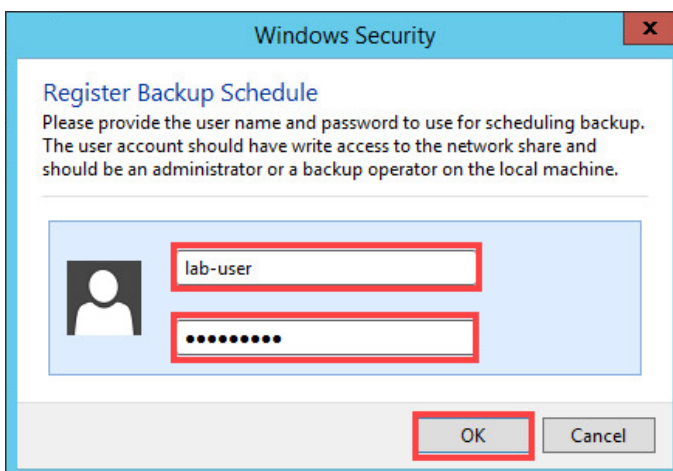


14. On the *Specify Remote Shared Folder* step, type `\\Win16\Users\lab-user\Desktop\Backup` in the *Location* text field and click **Next**.



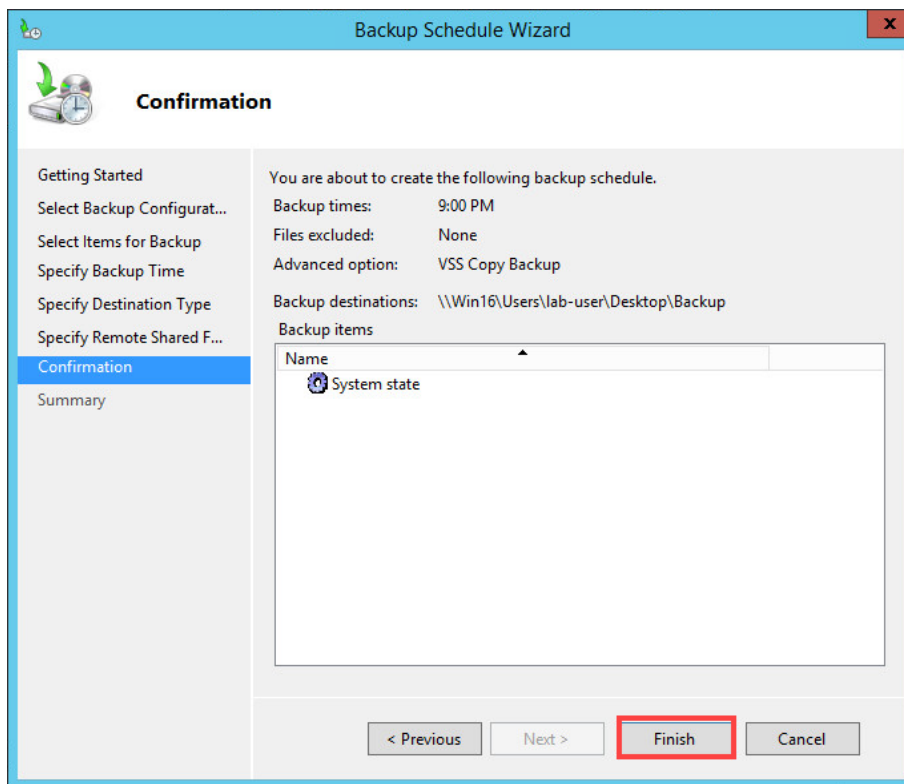
The screenshot shows the 'Backup Schedule Wizard' window, specifically the 'Specify Remote Shared Folder' step. The left sidebar contains a list of steps: 'Getting Started', 'Select Backup Configurat...', 'Select Items for Backup', 'Specify Backup Time', 'Specify Destination Type', 'Specify Remote Shared F...', 'Confirmation', and 'Summary'. The 'Specify Remote Shared F...' step is currently selected and highlighted in blue. The main area of the wizard has a 'Location:' label followed by a text input field containing the path '\\Win16\Users\lab-user\Desktop\Backup'. Below this is an 'Example:' showing '\\MyFileServer\SharedFolderName' and a note: 'This wizard creates a folder based on the name of the server being backed up, for example MyServer-BackupFiles.' There is an 'Access Control' section with two radio buttons: 'Do not inherit' (unselected) and 'Inherit' (selected). Below the radio buttons is a note: 'The backed up data cannot be securely protected for this destination.' with a 'More Information' link. At the bottom of the wizard are four buttons: '< Previous', 'Next >', 'Finish', and 'Cancel'. The 'Next >' button is highlighted with a red rectangle.

15. When prompted for credentials, type **lab-user** as the username and **Training\$** as the password. Click **OK** to continue.

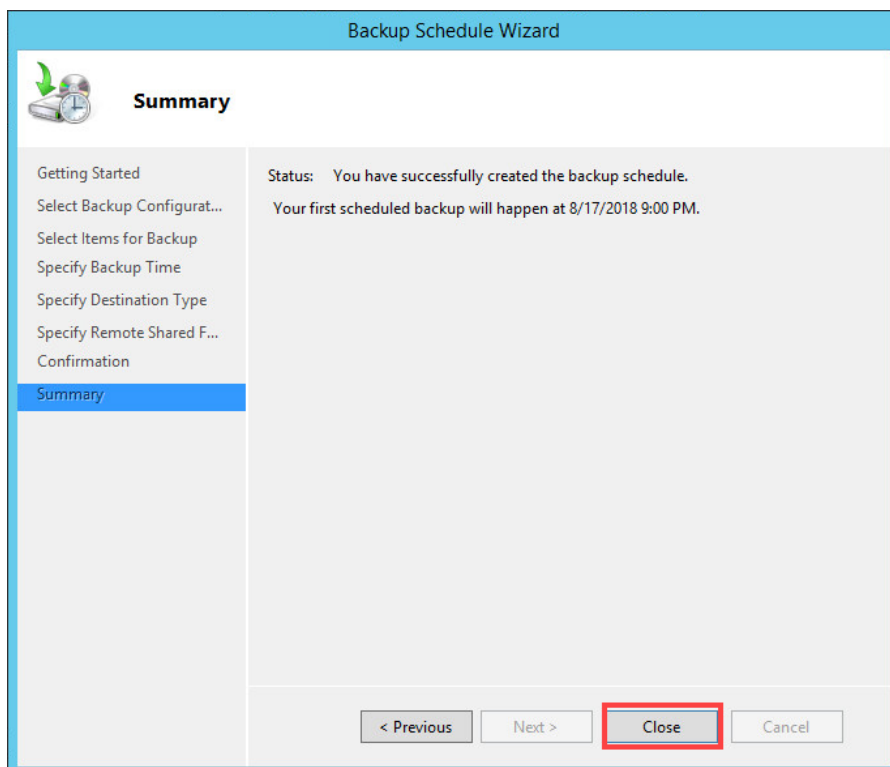


The screenshot shows the 'Windows Security' window, specifically the 'Register Backup Schedule' dialog. The dialog has a title bar with 'Windows Security' and a close button. The main text says: 'Please provide the user name and password to use for scheduling backup. The user account should have write access to the network share and should be an administrator or a backup operator on the local machine.' Below this text is a form with two input fields. The first field is for the username and contains the text 'lab-user'. The second field is for the password and contains a series of dots. At the bottom of the dialog are two buttons: 'OK' and 'Cancel'. The 'OK' button is highlighted with a red rectangle.

16. On the *Confirmation* step, review the configuration and click **Finish**.



17. On the *Summary* page, click **Close**.



18. The lab is now complete; you may end the reservation.