



LINNAEUS UNIVERSITY

Seminar 5

1DV720 – Server Administration

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1 Introduction

During this seminar, we will address the following topics:

- Backup
- Troubleshooting

2 Deadline

The seminar is on the **7th of March 2018** and it is compulsory. If you cannot participate, it must be notified in advance and a written report of the seminar must be submitted no later than **3 days** after the seminar. The written report should contain detailed answers to all questions in the seminar.

3 Seminar Questions

1. Describe the following types of backup:
 - a. Full or Normal backup
 - b. Differential backup
 - c. Incremental backup
2. How does Windows Server Backup in Windows Server 2012 R2?
3. What is Volume Shadow Copy Service and how does it work?
4. What tools are integrated in Windows Server to handle troubleshooting and monitoring of the operating system?
5. A popular way to backup files in linux is using rsync Explain how it works.
6. Is the rsync traffic encrypted or in cleartext?
7. Give examples of some useful rsync commands.
8. What is rsnapshot? How does it work?
9. What would you need to do to automate rsync/rsnapshot?
10. What three reasons are there for providing a restore and give one example for each of these?
11. Shortly explain these terms:
 - a. Corporate guidelines
 - b. SLA(Service Level Agreement)
 - c. Policy
 - d. Procedure
 - e. Schedule
12. Setting up a Backup-Schedule, what should you consider when determining:
 - a. The cycle size?
 - b. The time of backup?

13. Explain what RPO and RTO is.
14. A company has a 2000 GB drive with an average daily change of 2% and a 7 day cycle.
 - a. Calculate the total amount of space that is required after 10 days.
 - b. Would you argue there are any better or worse scopes?
15. What three procedures in a backup can be automated?
16. Why is it so important to have “fire drills” on backups? And what considerations should you take when doing it?
17. What are the benefits and drawbacks from using an offsite/-cloudbased backup solutions to an in-house? Are there any certain consideration you should take in any of the implementations?
18. What are the advantages/disadvantages with disk based and tape based backups?
19. What is a Tape jukebox?
20. Read the chapter of debugging and relate to some of the debugging procedure that you have used/could’ve used?