

### 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 9th of March 2016 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 is RPO and RTO.
- 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 aruge 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 "firedrills" 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 inhouse? Are there any certain consideration you should take in any of the implementations?
- 18. What are the advantages/disadvantages with diskbased and tapebased 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?