

Practical Assignment 3

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| Student Name: |  |
| Deliverable: |  |
| Course Name: |  |
| Date Assigned: |  |
| Date Due: |  |
| Rules: | * Individual. * Cheating is not allowed. * Plagiarism counts as cheating! * That FAILURE to submit work in the course can result in a grade of ‘F’ or ‘I’ for failure to complete the course! |

Topology



Deliverables

For Practical Assignment 3, you will be using your VMWare Host (FILASTNAME-A1) from Practical Assignment 2. Complete the following based on the above topology:

1. Ensure that your External Virtual Switch is functional (A2-PROD) and all VMs are connected to A2-PROD.
2. Power on your Domain Controller VM (FIRSTNAME-DC1).
3. Using FILASTNAME-A1, create 1 new Hyper-V VM:
   1. SAN Server (Name: FIRSTNAME-SAN3)
      1. 50GB Dynamic Disk, 1 CPU, 4GB RAM
      2. iSCSI Target Server
      3. Create iSCSI Virtual Disk named Disk3 (40GB Dynamic)
      4. iSCSI Target Name: SAN3
      5. iSCSI Initiator: IP address for FILASTNAME-A1
4. Using iSCSI Initiator, connect FILASTNAME-A1 to your FIRSTNAME-SAN3 server and configure the disk for use.   
   Assign drive letter F:
5. Create a new VMWare Host as your Secondary Hyper-V Host (FILASTNAME-A2)
   1. Follow all steps when creating your new Hyper-V Host.
   2. Update your iSCSI Target with the IP address for FILASTNAME-A2.
   3. Use iSCSI Initiator to connect to your SAN (FIRSTNAME-SAN3). Bring your disk online.
6. Create a new Hyper-V Failover Cluster, named FILASTNAME-FOC3 and assign an IP from your range. Create the Failover cluster on FILASTNAME-A1 and ensure both FILASTNAME-A1 and FILASTNAME-A2 are in your cluster.
7. On FILASTNAME-A1, in Failover Cluster Manager, add your disk and convert to a Clustered Shared Volume.
8. Create a new Hyper-V VM on FILASTNAME-A1 called FIRSTNAME-MS3. Your VM should be saved on your Clustered Shared Volume and your Virtual Disk should also be saved on your Clustered Shared Volume (eg. C:\ClusteredStorage\Volume1\Virtual Machines). Other than installing Windows Server 2019 Datacenter Desktop Experience, you do not need to install any Features or Roles on this server, just ensure that it has a static IP and that you can ping it. Configure your FIRSTNAME-MS3 with a static IP address. Determine the best hardware configuration (CPUs, RAM, Dynamic Disk) for your VM.
9. Using FILASTNAME-A1, configure FIRSTNAME-MS3 to be a Highly Available Virtual Machine in Failover Cluster Manager.

**Submission Requirements:**

1. Create ONE (1) PowerPoint presentation file using the PowerPoint template provided.
2. Complete the “Virtual Machine Planning” slide with the static IPv4 addresses, VM names etc.
3. You do not need to document each step you took to create the actual VMs.
4. Provide screenshots that are specific to the requirements in the PowerPoint template provided. Refer to Rubric.

**NOTE:** Each screenshot requires a description to explain what step or setting you are showing. Not including a description will result in a reduction in marks (-1 points).

Save your PowerPoint presentation file as a PDF and submit the PDF file as per the instructions under “Evaluation”.

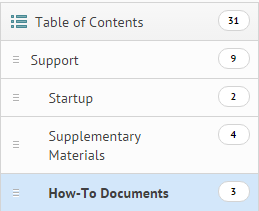
Evaluation

Your evaluation will be held to the following rules and constraints. These rules are firm and are irrefutable.

* Failure to submit this completed deliverable will result in a grade of zero (0) on this deliverable.
  + There will be no opportunity provided to make up for this missed deliverable or raise your grade.
  + In the instance that the failure to submit this work results in a grade of zero (0) that ultimately causes an overall course grade below fifty-five (55) then there will be no opportunity to perform any work, tests, activities or tasks to raise your grade above the failing mark.
* It is the student’s responsibility to ensure that their work has been submitted through eConestoga, on-time, to the correct course and in the correct folder.
  + If you submit your work to the incorrect folder then you may not receive any grade for your work. This will be completely up to the discretion of your Instructor.
  + If you, the student, submit your file to the wrong folder or course on eConestoga then you must simply resubmit to the correct folder.
* To pass this course you are required to submit every single deliverable.
  + If you have failed to submit any work by the end of the course your Instructor reserves the right to assign a final course grade of incomplete (I) or failure (F) for your performance in the entire course.

Submission Details

**FILE NAMES**

All submissions must adhere to the programs naming convention. For details regarding this naming convention documentation can be retrieved from the *How-To* module, within the *Support* module for your course on eConestoga, file name “O3 - Student Submissions Naming Convention - ver1.0.PDF.” If this is group work you must include your group members names within your work and within the NOTES section of your dropbox submission. Submitting your work with an improper file type may result in a grade of zero (0) being assigned.

**ACADEMIC HONESTY**

1. By submitting your work through Conestoga College’s eConestoga dropbox you hereby affirm that;
   1. You are in complete understanding of, and accept in full, the *Academic Integrity Policy* and *Violation of Academic Integrity Policy* of Conestoga College. If you are not familiar with these policies it is your responsibility to familiarize yourself with them, in full, before submitting any work through eConestoga.
   2. The work that you have submitted is your own work and has not been: taken, replicated, duplicated or copied in any way from any source inside or outside of the classroom.
   3. Your work will be retained and indexed by Turnitin.com for academic honesty and comparison purposes.
2. If you share your work with, or use the work of, others then your grade, along with the grade of any other participating[[1]](#footnote-1) student, will be adjusted to reflect this infraction and you will face academic penalties[[2]](#footnote-2) including, but not limited to;

* Discontinuance for Conestoga for a minimum of 12 months and a failing grade for all current courses.
* A failed grade for the course and suspension from Conestoga College for an undetermined length of time.
* A failed grade for the course, which may result in your inability to continue in your Program.
* A failed grade for the deliverable on which the *Academic Integrity Policy* was violated.

1. Turnitin.com will compare the values and data of each student submission against submissions from;

* Your current classmates, including all submissions they have made in the past or present.
* Former students of your program as well as students from other intakes for your program.
* Students enrolled in any course or program at Conestoga College, past or present.
* A perpetually growing database of work from 26 million students from Colleges and Universities worldwide.
* More than 12 **b**illion webpages including all mainstream data sites, repositories and wikis.
* Direct quotations taken from any source will be identified by Turnitin.com and will require Instructor review, it is, therefore, imperative that you cite any work(s) taken from other sources following proper APA form

1. Participation includes both unknowing participation as well as willful participation in any activity that results in academic misconduct. [↑](#footnote-ref-1)
2. No refunds will be made available to any student who has been discontinued from their program due to violations of academic policy. [↑](#footnote-ref-2)