

|  |  |
| --- | --- |
|  |  |
| Student Name: |  |
| Deliverable: | NTWK8060 Final Practical Exam |
| Course Name: | NTWK8060 |
|  |  |
| 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! |

Deliverables

**Prerequisites**

Complete **Final Exam Preparation** in Week 14 if it was not completed yet. You should have the 5 Virtual machines below setup.

1. **Lastnamefinal-DC1**
2. **Firstnamefinal-DC1**
3. **Lastnamefinal-S1**
4. **Lastnamefinal-S2**
5. **Lastnamefinal-C1**

**\*\* Delete from disk previous VMs for course NTWK8060 \*\***

**Part 1: Preparation**

1. Promote **Lastnamefinal-DC1** to a domain controller with domain name **lastnamefinal.local.**
2. Add **Lastnamefinal-S1, Lastnamefinal-S2, Lastnamefinal-C1** as members to **lastnamefinal.local**.
3. Promote **Firstnamefinal-DC1** to a domain controller with domain name **firstnamefinal.local.**
4. Create an **AD group** called **Marketing** on **lastnamefinal-DC1**.
5. Create an **AD user** called **Mark1** and assign them to the **Marketing** AD Group.

**Part 2: Active Directory Domains and Trusts**

1. Create a two-way trust between **lastnamefinal.local** and **firstnamefinal.local.**
2. Test the trust after its created by creating an NTFS File share on **Lastnamefinal-DC1** assigning [administrator@firstnamefinal.local](mailto:administrator@firstnamefinal.local) modify access to it.

**Part 3: NLB**

1. Create an **NLB cluster** adding **Lastnamefinal-S1** and **Lastnamefinal-S2** as members.

**Part 4: Windows File and Storage Services**

1. Create an **NTFS share** named **Files** using File and Storage Services.
2. Assign the **Marketing AD group** **Modify** access to the share.
3. Sign in with **Mark1** on **Lastnamefinal-C1** and show that you can map and access the share.

**Part 5**: **Server Hardening and Firewalls**

1. Create the below rules in **Windows Defender Firewall with advanced security** on **Lastnamefinal-S1**.

**Allow ICMPv4**

**Allow HTTP TCP Port 80**

**Allow HTTPS TCP Port 443**

**Allow RDP TCP Port 3389**

**Part 6: Web Server (IIS)**

1. Create a **Host A record on lastnamefinal-DC1** called **www** inside the **lastnamefinal.local forward lookup zone** pointing to the **IP address** of **Lastnamefinal-S1**.
2. Install the **IIS Role** with the **Application Development** role feature on **Lastnamefinal-S1**.
3. After IIS is installed, access the default website from **Lastnamefinal-C1** using [www.lastnamefinal.local](http://www.lastnamefinal.local).

**Provide Screenshots with a brief description related to the requested points on the Final Practical Exam Rubric**

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**

Graphical user interface, text, application

Description automatically generatedAll 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)