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| Image result for griffith college | |
| **Course** | BSCO / BSCH |
| **Module** | Networks and Data Communications |
| **Practical** | 1 |
| **Issue Date** | 24/09/2019 |
| **Due Date** | 24/09/2019 @ 23:59 hours |
| **Submission Instructions** | * All content must be your own work and in your own words * Do not copy and paste images, draw them yourself where possible * *Plagiarism will not be tolerated* * Submit your work via the upload link on Moodle |

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| **Task 01** |
| 1. Open a DOS prompt window and using the appropriate command determine the IP addressing information of the PC you are logged into. Paste a screenshot showing the IP address, Subnet Mask and Default Gateway of your PC.   *Clearly state the command used in your solution and record screenshots of output.* |
| **Task 01: Screenshot** |

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| **Task 02** |
| 1. What command can be used to “release” the IP addressing information which is currently assigned to your machine?   Using an appropriate command obtain new addressing information for your PC from the DHCP server.  *Clearly state the command used in your solution and record screenshots of output.* |
| **Task 02: Screenshot** |

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| **Task 03** |
| 1. Open a DOS prompt window and using the appropriate command determine the MAC address of the PC you are logged into. Paste a screenshot below of your PC’s MAC address.   *Clearly state the command Clearly state the command used in your solution and record screenshots of output.* |
| **Task 03: Screenshot** |

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| **Task 04** |
| 1. Open a DOS prompt window and using the appropriate ping the default gateway of the PC you are logged into. Is the ping successful?   *Clearly state the command used in your solution.*   1. What option can be used with ping so it does not terminate after 5 packets?   *Clearly state the command used in your solution and record screenshots of output.*   1. Issue a command that could be used to ping the default gateway twenty times **and** save the output to a file called pingDefaultGateway\_24.09.19.txt   *Clearly state the command used in your solution and record screenshots of output.* |
| **Task 04: Screenshot** |

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| **Task 05** |
| 1. Open a DOS prompt window and using the appropriate trace the path packets take from the PC you are logged into to the server on which the bbc website is hosted.   *Clearly state the command used in your solution and record screenshots of output.* |
| **Task 05: Screenshot** |

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| **Task 06** |
| 1. Open a DOS prompt window and using the appropriate command determine the public IP address of the following domain names.    1. pigsback.com    2. griffithcollege.ie   *Clearly state the command used in your solution and record screenshots of output.* |
| **Task 06: Screenshot** |

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| **Task 07** |
| 1. Using an appropriate command display in the DOS prompt window, locally cached DNS records.   *Clearly state the command used in your solution and record screenshots of output.*   1. Using an appropriate command clear all locally cached DNS records, and verify that no records exist.   *Clearly state the command used in your solution and record screenshots of output.* |
| **Task 07: Screenshot** |

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| **Task 08** |
| 1. DOS has an inbuilt command that allows you to the view ‘network statistics’ which includes all incoming and outgoing connections. Using an appropriate command determine all executables that have connections open on your machine.   *Clearly state the command used in your solution and record screenshots of output.* |
| **Task 08: Screenshot** |

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| **Task 9** |
| 1. Using an appropriate command display the list of IP addresses that have been resolved to MAC addresses (on the PC you are logged into)   *Clearly state the command used in your solution and record screenshots of output.* |
| **Task 9: Screenshot** |

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| **Task 10** |
| 1. Research other useful DOS prompt commands, state the purpose of such a command, issue the command and record the output.   *Clearly state the command used in your solution and record screenshots of output.* |
| **Task 10: Screenshot** |