# CYB 230 Module Three Lab Worksheet

Complete this worksheet by replacing the bracketed phrases in the Response column with the relevant information.

## Lab: Basic Network Configuration

| **Prompt** | **Response** |
| --- | --- |
| In the lab section “Configuring a Network Interface Manually With the Networkmanager Service,” insert your name at the command line below the final configuration file output and include it in your screenshot. | A screenshot of a computer  Description automatically generated |
| In the lab section “Configuring a Centos Network Interface Manually With the Network Service,” insert your name at the command line below the output of the updated interface configuration file and include it in your screenshot. | A screenshot of a computer  Description automatically generated |
| In “Configuring a Centos Network Interface Manually With the Network Service,” you are asked to resolve the addresses for three different names that all result in the same IP address. Which version would you find most useful? Explain why. | The hostname that is easiest to remember and indicates the server's function or location is most beneficial. For example, if the server is a database server in New York, a hostname like `ny-database01` would be practical. This makes remembering and quickly understanding the server's purpose easier without looking up its IP address. |

## Lab: Network Security—Firewalls

| **Prompt** | **Response** |
| --- | --- |
| In the lab section “Configure Windows Firewall With Advanced Security Using Administrative Tools,” insert your name at the command line below the ending output and include it in your screenshot. | A computer screen with white text  Description automatically generated |
| Explain why it is not necessary to create an inbound rule on the internal 192.168.12.10 Windows server so that it can receive the response (ICMP echo reply) from the internal 192.168.12.11 Windows server. | I do not believe creating an inbound rule for ICMP echo replies is necessary because the firewall automatically allows responses to traffic initiated by the host. Since the echo request originates from 192.168.12.10, the firewall permits the reply as part of the established communication. |
| Explain the advantages and disadvantages of having the firewall disabled at startup in the Linux operating system. | The advantage of having the firewall disabled at startup is that it simplifies server configuration and troubleshooting, especially during initial setup or when running applications that communicate on multiple ports. The disadvantage is a considerable increase in security risks as the server is exposed to potential threats, making it vulnerable to attacks until the firewall is manually enabled. |

## Lab: Implementing Security Policies on Windows and Linux

| **Prompt** | **Response** |
| --- | --- |
| In the lab section “Securing the Windows Logon Process,” modify “Warning!” to “Warning - [YOUR NAME]”. Provide a screenshot of the final output. | A screenshot of a computer error  Description automatically generated |
| In the lab section “Auditing Logon Failures,” provide a screenshot of the ending Audit Failure output. | A screenshot of a computer  Description automatically generated |
| What is the importance of automating system checks and log file creation for server management? | Automating system checks and log file creation is crucial for maintaining server reliability and security. It ensures that potential issues are detected early, and logs provide a trail of evidence in case of security breaches or failures. Automation helps manage large environments efficiently, reduces the risk of human error, and allows IT staff to focus on more strategic tasks. |