# CYB 300 Module Five Practice Lab Worksheet

Complete this worksheet by replacing the bracketed phrases in the Response column with the relevant information. For all screenshots, include your name in the command line.

## Lab: Implementing a Public Key Infrastructure

## Exercise 2: Create a Self-Signed Certificate

| **Prompt** | **Response** |
| --- | --- |
| Task 1: Take a screenshot of **Step 37** showing the successful creation of the certificate file. Add your name in the command line. |  |

## Exercise 4: Configure Certificate Revocation Lists (CRLs)

| **Prompt** | **Response** |
| --- | --- |
| Task 1: Take a screenshot of **Step 12** showing the presence of both the root CA and the subordinate CAs. Add your name in the command line. | A screenshot of a computer  Description automatically generated |
| What would be the purpose of creating a subordinate certificate authority? | A subordinate certificate authority (CA) allows for a more scalable and manageable public key infrastructure (PKI). It decentralizes the issuance of certificates to different departments or sectors within an organization, enhancing security by limiting the scope of each CA's authority and reducing the risk of a single point of failure. |

## Exercise 7: Implement Key Archival

| **Prompt** | **Response** |
| --- | --- |
| Task 4: Take a screenshot of **Step 4** showing the recovery key certificate issued to the administrator. Add your name in the command line. | A screenshot of a computer  Description automatically generated |
| What is the importance of issuing a recovery key certificate to a restricted number of individuals? | Issuing a recovery key certificate to a limited number of individuals is crucial for maintaining the security of encrypted data. This strategy ensures that only authorized personnel have access to recover keys, which are necessary for decrypting data if the original encryption keys are lost or compromised. It helps prevent unauthorized access and maintains the integrity and confidentiality of sensitive information. |