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| 03.9.2021 |  | Status Report |
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| **Snapshot of Project or Task 22: Set up Certificate Authorities** | | |
| Activity | Percent Complete | Issues  Configuration, Testing, Validation, Troubleshooting |
| Set up 1st Certificate Authority Server (Root) | 100% | Ensure to restart server after configuration |
| Set up 2nd Certificate Authority Server (Sub) | 100% | Ensure to restart server after configuration |
| Create a certificate template for issuing machine certificates to my clients | 100% | No issues |
| Publish a certificate template to allow enrollment | 100% | No issues |

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| **Status Summary:** Discuss how you addressed configuration, testing, validation and troubleshooting |
| The task was to set up a CA root server on SVR1. I added the role and feature for Certificate Authority ensuring to add the additional role for Certification Authority Web Enrollment and then once the installation was complete, I then had to configure the new role. During the configuration I chose the enterprise CA, Root CA, created a new private key using RSA key length of 2048, hash algorithm SHA256, common name for the CA is ‘Certificate Authority,’ validity period for 10 years, and once complete I restarted the server to ensure everything took.  The next task is to set up a subordinate Certificate Authority on my Domain Controller. I first had to add the role and feature for Certificate Authority as I did on the Root CA only this time I did not ad the Web Service feature. During configuration I still used the Enterprise CA, this time I choose the Subordinate CA, creating a private key using the same from Root CA, this time name this CA for SSLCert Server, then choosing the option for sending a certificate request to a parent CA, choosing my Root CA on SVR1, and then with the configuration complete I restarted the server to ensure everything took.  Now I would create a certificate template for issuing machine certificates to my clients using my Root CA to create this template. Using the certificate authority management tool, I created a duplicate template and named it ‘IPsec,’ subject name format is ‘common name.’ and now we have a Certificate to issue to my client machines. by  duplicating one of the built-in templates that came with our CA server, we were able to build a new template without having to configure every single option from the ground up.  The final task is to publish the certificate template to allow enrollment. Using Certificate Authority management tool to navigate to certificate templates, select ‘new’, select certificate template to issue, then right click certificate templates, select manage, select the ‘IPsec’ certificate, select properties, got to the security tab and add the Domain computers ensure to select allow ‘enroll’ permissions. |
| **Submitted By:**  Bo Irving |