Getting Started with HashiCorp Consul
Objective 9 - Lab Guide

1. **Generate a new gossip encryption key**
   a. **$ consul keygen**

2. **Modify the Consul agent configuration file to add encryption to an existing cluster**
   a. **$ sudo vi /etc/consul.d/config.hcl**
   b. **Add the following parameters:**
      i. **"encrypt": "<gossip key>",**
      ii. **"encrypt_verify_incoming": false,**
      iii. **"encrypt_verify_outgoing": false,**

3. **Add the same configuration to the second Consul server**

4. **Restart the Consul service on both servers**
   a. **$ sudo systemctl restart consul**

5. **Validate that gossip encryption is NOT enabled by viewing the journal logs**
   a. **journalctl -u consul**

6. **Modify the Consul agent configuration file to change the "encrypt_verify_outgoing" parameter to <u>true</u> on both servers**
   a. **$ sudo vi /etc/consul.d/config.hcl**
   b. **Change the following parameter:**
      i. **"encrypt_verify_outgoing": true,**

7. **Restart the Consul service on both servers**
   a. **$ sudo systemctl restart consul**

8. Modify the Consul agent configuration file to change the "encrypt_verify_incoming" parameter to <u>true</u> on both servers
    a. $ sudo vi /etc/consul.d/config.hcl
    b. Change the following parameter:
        i. "encrypt_verify_incoming": true,

9. Restart the Consul service on both servers
    a. $ sudo systemctl restart consul

10. Validate that gossip encryption is enabled by viewing the journal logs
    a. journalctl -u consul