1. Run a status command to confirm the encryption and cipher details.

Here below mentioned the screenshot which is implemented on our side with the status command to confirm the encryption and cipher details.

```
-node ~] # cryptsetup luksDump /dev/
LUKS header information for /dev/
Version:
Cipher name:
Cipher mode:
               xts-plain64
               sha256
Hash spec:
Payload offset: 4096
               512
MK digest:
               72 a5 36 fb 2d d0 ac a2 20 e1 86 44 46 e0 97 28 86 06 a0 1a
MK salt:
               7f 5b 59 b7 34 bb 1d bc c1 67 79 44 68 ca 6f 82
MK iterations: 16500
                   c4cc-2 -4b5'
UUID:
                                             92d
Key Slot 0: DISABLED
Key Slot 1: ENABLED
       Iterations:
                                312193
                                f1 6f ac 5c 0e 78 dd 04 51 e3 4c 5f a0 3c c7 59
       Salt:
                                44 e7 21 37 b5 07 fa 09 7b 6d a5 36 33 5a 78 67
       Key material offset:
                                512
       AF stripes:
Key Slot 2: DISABLED
Key Slot 3: DISABLED
Key Slot 4: DISABLED
Key Slot 5: DISABLED
Key Slot 6: DISABLED
Key Slot 7: DISABLED
```

2. Formal procedures to support split knowledge and dual control encryption key custodians.

Key's: keys are splitted as section1 and section 2

Split Knowledge applies to the manual generation of encryption keys, or at any point where encryption keys are available in our end based on formal procedures. We split two persons constitute or re-constitute a key in this existing situation.

In our organization for Separation of Duties two peoples are controlling the different aspects of our data protection strategy. The person who creates and manages the keys should not have access to the data they protect. And, the person with access to protected data should not be able to manage encryption keys.

No one person alone should be able to manage the encryption keys. Creating, distributing, and defining access controls should require two individuals working together to accomplish the task.

3. Formal procedures to ensure that key recovery functions exist and only authorized personnel have access to this function.

We are using two encryption keys as primary and secondary keys. If we lose our primary key, we have a backup of secondary key to the authorised persons who got approval from our organizations higher authorised authorities.

4. Formal procedures to handle replacement of encryption keys and keying materials in case of known or suspected key compromise, or when an employee with key knowledge separates.

The resigned persons credentials are removed from the server and all the credentials are given to the replaced authorised person including new encryptions keys and keying materials. However as per our Infosec policy all the confidential keys are changed 90 days once.

```
-node ~] # cryptsetup luksChangeKey /dev/s
Enter passphrase to be changed:
Enter new passphrase:
Verify passphrase:
  -node ~]# cryptsetup luksDump /dev/
LUKS header information for /dev/
Version:
Cipher name:
            xts-plain64
Cipher mode:
Hash spec:
Payload offset: 4096
MK bits:
              MK digest:
MK salt:
              7f 5b 59 b7 34 bb 1d bc c1 67 79 44 68 ca 6f 82
MK iterations: 16500
UUID:
                bc4cc-2f38-4k
Key Slot 0: DISABLED
Key Slot 1: ENABLED
      Iterations:
                            312193
      Salt:
                            44 e7 21 37 b5 07 fa 09 7b 6d a5 36 33 5a 78 67
      Key material offset:
      AF stripes:
Key Slot 2: DISABLED
Key Slot 3: DISABLED
Key Slot 4: DISABLED
Key Slot 5: DISABLED
Key Slot 6: DISABLED
Key Slot 7: DISABLED
```