**Section 5 Video 4: Migrating FreeIPA and Integrating with Active Directory**

**1. Introduction to Migration and Integration**

* **Objective:** Learn how to migrate FreeIPA and integrate it with Active Directory and other services.

**2. Migrate FreeIPA Server**

* **Step 1:** Backup current FreeIPA server data.

ipa-backup --all

* **Step 2:** Restore backup on the new server.

ipa-restore backup\_file

* **Explanation:** Migration involves backing up the current server and restoring it on the new server to ensure a smooth transition.

**3. Integrate with Active Directory**

* **Step 1:** Add a trust relationship with Active Directory.

ipa trust-add --type=ad ad.example.com --admin Administrator

* **Explanation:** Trust relationships enable FreeIPA and Active Directory to share user and group information.

**4. Verify Integration**

* **Step 1:** Check synchronization status.

ipa trust-show

* **Explanation:** Ensure that synchronization between FreeIPA and Active Directory is functioning correctly.

**5. Troubleshoot Integration Issues**

* **Step 1:** Review synchronization logs.

tail -f /var/log/ipa/dirsrv/slapd-YOURDOMAIN.log

* **Explanation:** Logs can help identify and resolve issues with Active Directory integration.

**6. Integrate with Other Services**

* **Step 1:** Configure integration with additional services (e.g., LDAP).

ipa ldapserver-add ldap.example.com

* **Explanation:** FreeIPA can integrate with various services to extend its capabilities.