## mod05\_ex01: Touring FreeIPA

The purpose of this exercise is to tour FreeIPA. IPA is a web UI combining many of the common Linux directory services. FreeIPA provides services for Identity Management, MIT Kerberos, Certificates, Domain Services, Network File System, and more. FreeIPA deploys a client to every host; this client is based on System Security Services Daemon (SSSD).

FreeIPA is the public source version of Redhat's IdM tool. It is designed and built from the ground up to support Linux based systems. It is used in this course due to the ease of use and ease of access.

## **Reference Information**

TBD

- 1. Login into IPA as the security administrative user, sam\_sec.
- 1.1 Select workspace 2. Open Firefox. On the Firefox bookmark toolbar select Identity Management. The IPA login screen will open.



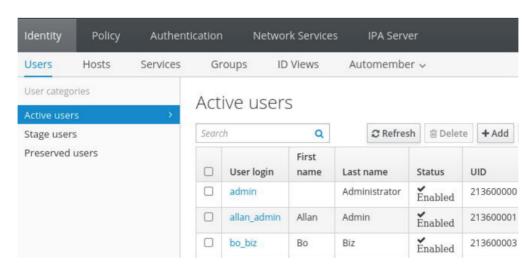
1.2 Login with the security administrative user, sam\_sec, and password <password>. Click Login.

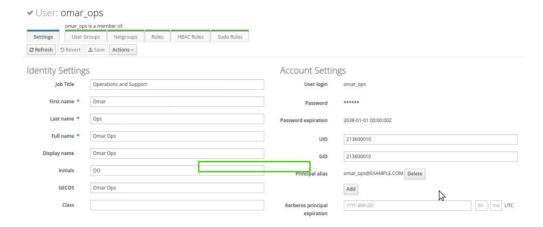


1.3 The IPA tool bar has five tabs: Identity, Policy, Authentication, Network Services, and IPA Server.

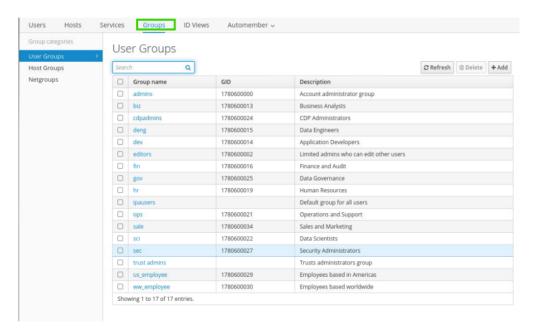


- 2. Tour Identity.
- 2.1 By default IPA opens to the list of users in Identity. The Identity tab manages users and groups. Review the list of users and groups, you will use several of them in future exercises. Select the user omar\_ops.





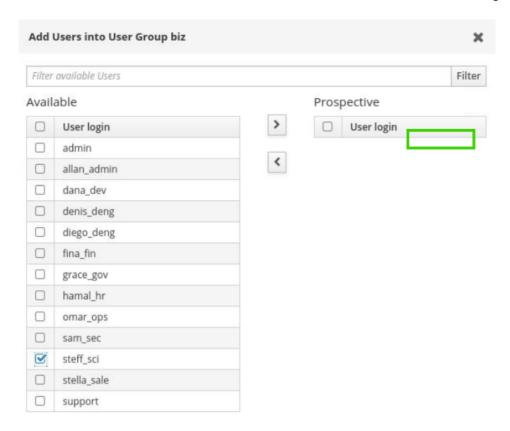
2.3 Select Groups. Select the group biz.



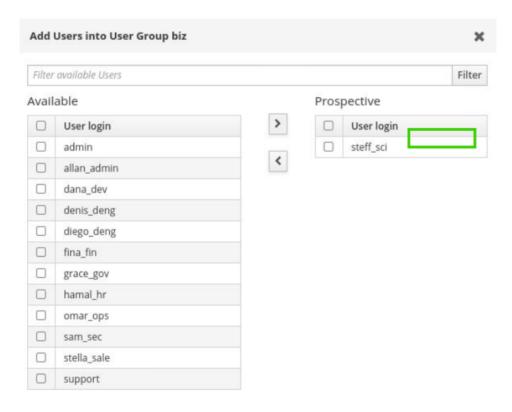
2.4 You will see the list of users assigned to the biz group.



2.5 Click +Add. Click steff\_sci. Click >. Click Add. The user steff\_sci is now a member of the biz group.

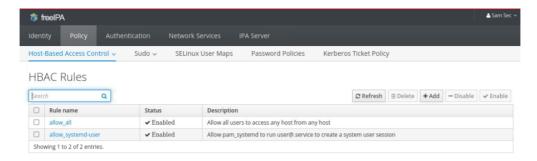


2.6 Click Add. The user steff\_sci is now a member of the biz group.



3. Tour Policy.

3.1 On the IPA menu select Policy. The Policy tabs are Host-Based Access Control, Sudo, SELinux User Maps, Password Policy, and Kerberos Ticket Policy.



3.2 Click on the Password Policy tab. Click on global\_policy. Review the properties for passwords. Do not make any changes.

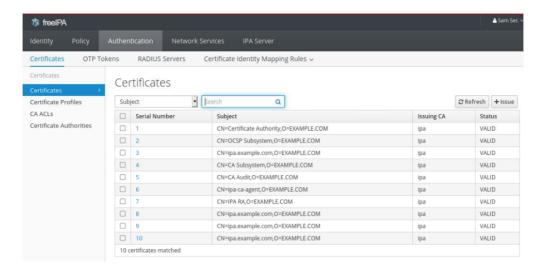
## Password Policy: global\_policy Settings **⊘** Refresh Password Policy Group global\_policy 9999 Max lifetime (days) Min lifetime (hours) 0 History size (number of passwords) 0 Character classes Min length 7

4. Tour Authentication

Max failures

200

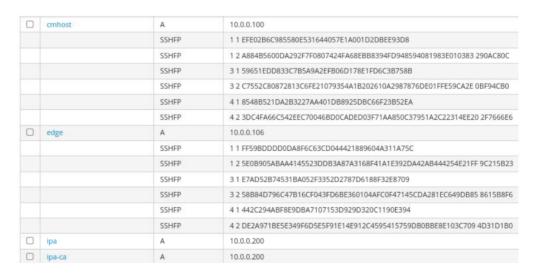
4.1 On the IPA menu select Authentication. FreeIPA can act as a Certificate Authority. This pages lists the current certificates.



- 5. Tour Network Services.
- 5.1 On the IPA menu select Network Services. IPA acts as our DNS server. DNS services are configured from this page. Select DNS > DNS Zones.

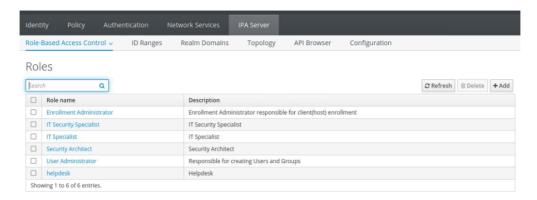


5.2 Select example.com. Review the list of records. Notice both the A records and the SSHFP records.

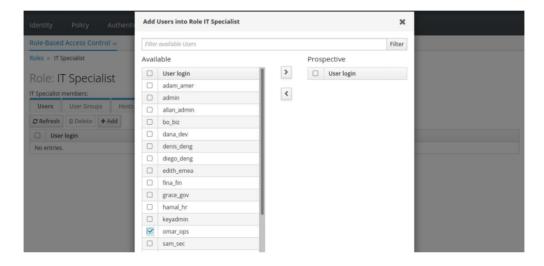


6. Tour IPA Server.

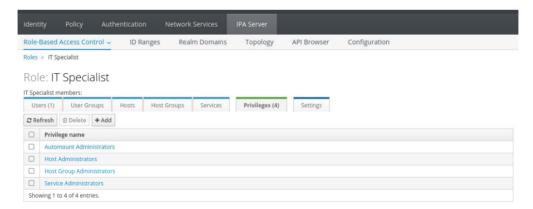
6.1 On the IPA menu select IPA Server. One unique capability for IPA is Role-Based Access Controls. Review the list of default roles. Select IT Specialist.



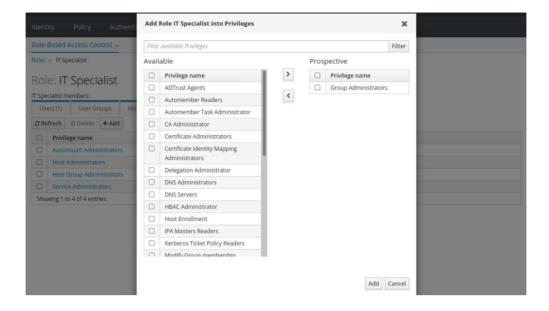
6.2 Assign a user to the role IT Specialist. Click + Add. Select omar\_ops. Click >. Click Add.



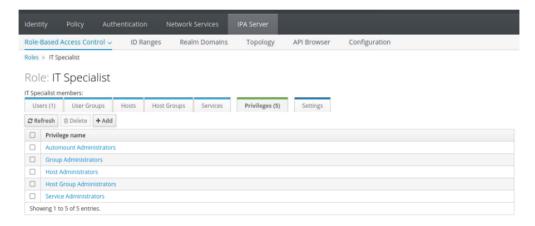
6.3 Select Privileges (4). Review the list of privileges assigned to the role IT Specialist. The IT Specialist is able to log into IPA to administrator hosts and groups.



6.4 Click + Add. Review the list of all of the privileges. Add a new privilege to the IT specalist role. Select Group Administrators. Click >. Click Add.



6.5 Review the list of privileges. Validate Host Group Administrators is now added to the role IT Specialist.



7. In the upper right corner of IPA select the security administrative user, sam\_sec. Select Logout.