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How to add sudo rule for local user in IPA server and retrieve on IPA client

⊘ SOLUTION VERIFIED - Updated June 3 2016 at 5:33 AM - English **▼** ()

Environment

- Red Hat Enterprise Linux 7
- IPA server (as a source of sudorules)
- IPA client (having local users)

Issue

- How do I add sudo-rule in IPA for user locally present on IPA client?
- How do I retrieve sudo-rule for local users on IPA client defined in IPA server?

Resolution

• For this to get work, configure a proxy domain in sssd.conf. IPA domain will be the same as per existing setup, the proxy domain will provide sudo information for local users. To create a rule in IPA that will apply local users, set external user in the cli/webUl which is a plain text.

This setup works, but it is still recommended to use /etc/sudoers for local users.

On IPA Server:

- 1. Create a sudo-rule for local user(external user) via WebUI or CLI:
- 2. Sudorule will appear as:



```
# ipa sudorule-find
-----
1 Sudo Rule matched
-----
 Rule name: testrule
 Enabled: TRUE
 Command category: all
 RunAs User category: all
 RunAs Group category: all
 Users: ipauser
 External User: localuser
                       <----
 Hosts: rhel7-ipa-2.example.com
-----
Number of entries returned 1
-----
```

On IPA Client:

1. Configure sssd.conf as shown below:



```
[domain/example.com] <---- IPA domain</pre>
cache_credentials = True
krb5_store_password_if_offline = True
ipa_domain = example.com
id_provider = ipa
auth_provider = ipa
access_provider = ipa
ipa_hostname = rhel7-ipa-2.example.com
chpass_provider = ipa
ipa_server = rhel7-ipa-2.example.com
ipa_server_mode = True
ldap_tls_cacert = /etc/ipa/ca.crt
ldap_sudo_search_base = ou=sudoers,dc=example,dc=com
[domain/proxy] <----- Define this section(proxy domain)</pre>
id_provider = proxy
proxy_lib_name = files
proxy_pam_target = system-auth-ac
sudo_provider = ldap  <----- This could be 'ipa' as well</pre>
ldap_uri = ldaps://rhel7-ipa-2.example.com
ldap_sudo_search_base = ou=sudoers,dc=example,dc=com
ldap_tls_cacert = /etc/ipa/ca.crt
[sssd]
services = nss, sudo, pam, ssh
config file version = 2
domains = example.com, proxy <----- Add a 'proxy' domain here
[nss]
homedir_substring = /home
[pam]
[sudo]
[autofs]
[ssh]
[pac]
[ifp]
```

2. Configure nsswitch.conf to have following entries for sudoers:

```
# grep /etc/nsswitch.conf
sudoers: files sss
```

3. User information will appear as:

```
# getent passwd localuser
localuser:x:1002:1002::/home/localuser:/bin/bash

# getent passwd ipauser
ipauser:*:659600005:659600005:ipa user:/home/ipauser:/bin/sh

# id localuser
uid=1002(localuser) gid=1002(localuser) groups=1002(localuser)

# id ipauser
uid=659600005(ipauser) gid=659600005(ipauser) groups=659600005(ipauser)
```

4. Test the configuration:



```
# sudo -1 -U ipauser
Matching Defaults entries for ipauser on this host:
    requiretty, !visiblepw, always_set_home, env_reset, env_keep="COLORS DISPLAY
HOSTNAME HISTSIZE INPUTRC KDEDIR LS_COLORS", env_keep+="MAIL PS1 PS2 QTDIR USERNAME
LANG LC_ADDRESS LC_CTYPE", env_keep+="LC_COLLATE LC_IDENTIFICATION
    LC_MEASUREMENT LC_MESSAGES", env_keep+="LC_MONETARY LC_NAME LC_NUMERIC LC_PAPER
LC_TELEPHONE", env_keep+="LC_TIME LC_ALL LANGUAGE LINGUAS _XKB_CHARSET XAUTHORITY",
secure_path=/sbin\:/bin\:/usr/sbin\:/usr/bin
User ipauser may run the following commands on this host:
    (ALL: ALL) ALL
# sudo -1 -U localuser
Matching Defaults entries for localuser on this host:
    requiretty, !visiblepw, always_set_home, env_reset, env_keep="COLORS DISPLAY
HOSTNAME HISTSIZE INPUTRC KDEDIR LS_COLORS", env_keep+="MAIL PS1 PS2 QTDIR USERNAME
LANG LC_ADDRESS LC_CTYPE", env_keep+="LC_COLLATE LC_IDENTIFICATION
    LC_MEASUREMENT LC_MESSAGES", env_keep+="LC_MONETARY LC_NAME LC_NUMERIC LC_PAPER
LC_TELEPHONE", env_keep+="LC_TIME LC_ALL LANGUAGE LINGUAS _XKB_CHARSET XAUTHORITY",
secure_path=/sbin\:/bin\:/usr/sbin\:/usr/bin
User localuser may run the following commands on this host:
    (ALL: ALL) ALL
# su - localuser
Last login: Wed May 25 19:44:22 IST 2016 on pts/1
[localuser@rhel7-ipa-2 ~]$ sudo -1
Matching Defaults entries for localuser on this host:
    requiretty, !visiblepw, always_set_home, env_reset, env_keep="COLORS DISPLAY
HOSTNAME HISTSIZE INPUTRC KDEDIR LS_COLORS", env_keep+="MAIL PS1 PS2 QTDIR USERNAME
LANG LC_ADDRESS LC_CTYPE", env_keep+="LC_COLLATE LC_IDENTIFICATION
    LC_MEASUREMENT LC_MESSAGES", env_keep+="LC_MONETARY LC_NAME LC_NUMERIC LC_PAPER
LC_TELEPHONE", env_keep+="LC_TIME LC_ALL LANGUAGE LINGUAS _XKB_CHARSET XAUTHORITY",
secure_path=/sbin\:/bin\:/usr/sbin\:/usr/bin
User localuser may run the following commands on this host:
    (ALL: ALL) ALL
$ sudo service sssd restart
Redirecting to /bin/systemctl restart sssd.service
$ echo $?
0
              <----- Successful
```

Product(s) Red Hat Identity Management (/taxonomy/products/red-hat-identity-management)

Red Hat Enterprise Linux (/taxonomy/products/red-hat-enterprise-linux)

Component ipa-client (/components/ipa-client) sudo (/components/sudo)

Category Configure (/category/configure) Tags ipa (/tags/ipa)



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