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RedHat IdM or FreeIPA with IBM AIX

Pre-requisites

- A working [FreeIPA](#) server or [RedHat IdM](#) ;)
- You must add host and reverse to DNS
- You must add complete hostname and short hostname to /etc/hosts
- You will need install some packages from AIX media:

```
GSKit8.gskcrypt32.ppc.rte, GSKit8.gskcrypt64.ppc.rte,  
GSKit8.gskssl32.ppc.rte, GSKit8.gskssl64.ppc.rte, krb5.lic, krb5.client,  
krb5.doc.en_US, krb5.toolkit, krb5.server idsldap.license64,  
idsldap.cltbase64, idsldap.clt32bit64, idsldap.clt64bit64,  
idsldap.cltjava64, idsldap.clt_max_crypto32bit64,  
idsldap.clt_max_crypto64bit64
```

You can install it with smit or installp. In my case I make a tarball and uploaded to a web server, with Ansible I retrieve the file to every IPA client and install it.

Generate host records and keytabs manually

```
kinit admin  
ipa host-add happyserver.gbmdc.dc  
ipa-getkeytab -s happyipaserver01.gbmdc.dc -p 'host/happyserver.gbmdc.dc' -k  
/tmp/happyserver.keytab
```

Copy keytab file to AIX Server and execute:

```
mkdir /etc/krb5/  
mv /home/estebanescool/happyserver.keytab /etc/krb5/krb5.keytab
```

Ansible

I automatized this tasks with Ansible, maybe this is great for you, maybe not. Sorry I not will rewrite bash commands. So this is the yml file:

```
---  
- hosts: all  
  tasks:  
    - name: Configure /etc/hosts  
      lineinfile:  
        path: /etc/hosts  
        regexp: '^10.50.20.13'  
        line: '10.50.20.13    happyipaserver01.gbmdc.dc happyipaserver01'  
    - name: Retrieve LDAP packages on AIX  
      get_url:  
        url: http://10.50.120.20:8080/installers/aixldap/ldap.tar
```

```
    dest: /tmp/ldap.tar
    mode: '555'
    validate_certs: no
  when: ansible_facts['os_family'] == 'AIX'
- name: Extract packages on AIX
  command: /usr/bin/tar -xvf /tmp/ldap.tar -C /tmp
  args:
    creates: /tmp/ldap
  when: ansible_facts['os_family'] == 'AIX'
- name: Install AIX packages
  installp:
    repository_path: /tmp/ldap
    accept_license: yes
    name: GSKit8.gskcrypt32.ppc.rte, GSKit8.gskcrypt64.ppc.rte,
GSKit8.gskssl32.ppc.rte, GSKit8.gskssl64.ppc.rte, krb5.lic, krb5.client,
krb5.doc.en_US, krb5.toolkit, krb5.server
  when: ansible_facts['os_family'] == 'AIX'
- name: Accept IDSLDAP license
  command: /tmp/ldap/license/idsLicense -q
  when: ansible_facts['os_family'] == 'AIX'
- name: Install additional AIX packages
  installp:
    repository_path: /tmp/ldap
    accept_license: yes
    name: idsldap.license64, idsldap.cltbase64, idsldap.clt32bit64,
idsldap.clt64bit64, idsldap.cltjava64, idsldap.clt_max_crypto32bit64,
idsldap.clt_max_crypto64bit64
  when: ansible_facts['os_family'] == 'AIX'
- name: Configure LDAP on AIX
  command: "{{ item }} chdir=/tmp"
  when: ansible_facts['os_family'] == 'AIX'
  with_items:
    - /usr/bin/mkdir /etc/ipa
    - /usr/bin/cp /tmp/ldap/ca.crt /etc/ipa
    - /usr/bin/gsk8capicmd -keydb -create -db /etc/security/ldap/ldap.kdb
    - /usr/bin/gsk8capicmd -cert -add -db /etc/security/ldap/ldap.kdb -
file /etc/ipa/ca.crt -label ipa_server_cert
    - /usr/bin/gsk8capicmd -keydb -changepw -new_pw 3edc#EDC3edc#EDC -db
/etc/security/ldap/ldap.kdb
    - /usr/sbin/mksecldap -c -h happyipaserver01.gbmdc.dc -a
"uid=admin,cn=users,cn=accounts,dc=gbmdc,dc=dc" -p 'Manager20' -d
"dc=gbmdc,dc=dc" -k "/etc/security/ldap/ldap.kdb" -w "3edc#EDC3edc#EDC" -j
tls
    - /usr/sbin/mkkrb5clnt -c happyipaserver01.gbmdc.dc -r GBMDC.DC -s
happyipaserver01.gbmdc.dc -d gbmdc.dc -i LDAP -D
- name: Configure kerberos file
  copy:
    dest: "/etc/krb5/krb5.conf"
    content: |
      [libdefaults]
          default_realm = GBMDC.DC
```

```
default_keytab_name = FILE:/etc/krb5/krb5.keytab
dns_lookup_realm = true
dns_lookup_kdc = true

[realms]
  GBMDC.DC = {
    kdc = happyipaserver01.gbmdc.dc:88
    master_kdc = happyipaserver01.gbmdc.dc:88
    admin_server = happyipaserver01.gbmdc.dc:749
    default_domain = gbmdc.dc
    pkinit_anchors = FILE:/etc/ipa/ca.crt
  }

[domain_realm]
  .gbmdc.dc = GBMDC.DC
  gbmdc.dc = GBMDC.DC
  happyipaserver01.gbmdc.dc = GBMDC.DC

[logging]
  kdc = FILE:/var/krb5/log/krb5kdc.log
  admin_server = FILE:/var/krb5/log/kadmin.log
  kadmin_local = FILE:/var/krb5/log/kadmin_local.log
  default = SYSLOG:info:local1'
- name: Configure ldap file
  copy:
    dest: "/etc/ldap.conf"
    content: |
      URI ldap://happyipaserver01.gbmdc.dc
      tls_cacert /etc/ipa/ca.crt
      BIND_TIMELIMIT 5
      TIMELIMIT 15
      sudoers_base ou=sudoers,dc=gbmdc,dc=dc
- name: Configure auth on AIX
  command: "{{ item }} chdir=/tmp"
  when: ansible_facts['os_family'] == 'AIX'
  with_items:
    - /usr/bin/chsec -f /etc/security/login.cfg -s usw -a
mkhomeatlogin=true
    - /usr/bin/chown root:sys /etc/krb5/krb5.keytab
    - /usr/bin/chmod 700 /etc/krb5/krb5.keytab
    - /usr/bin/chsec -f /etc/security/user -s default -a SYSTEM="KRB5LDAP
OR compat"
    - /usr/bin/chauthent -k5 -std
  become: yes
```

References

- https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/7/html/linux_domain_identity_authentication_and_policy_guide/retrieve-existing-keytabs
- <https://blog.delouw.ch/2017/08/05/manually-enroll-sles12-systems-to-redhat-idm/>

- <https://github.com/aaron-cole/IPA-Configuration-Guides/blob/master/AIX/AIX.txt>

From:

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Last update: **2019/12/05 16:12**

