How to join RHEL system to Active Directory

Voraussetzungen:

- `Red Hat Enterprise Linux 7` oder 6
- Vorhandenes und funktionierendes - `Active Directory`

Konfigurationsablauf

1. Make Sure RHEL machine is able to resolve Active Directory servers.
2. Install adcli package along with sssd:

```
# yum install adcli sssd authconfig
```

3. Then discover the AD domain:

```
adcli info ad.example.com
```

4. adcli will show few details about the AD domain. now, **join RHEL system to AD domain using adcli**

```
# adcli join ad.example.com
```

```
Password for Administrator@AD.EXAMPLE.COM:  <---- Enter Admin password
```

5. The join operation creates a keytab the machine will authenticate with. When inspect the with klist -kt, should show several entries that contain client hostname in some form:

```
# klist -kte
```

6. Configure /etc/krb5.conf to use AD domain:

```
# vim /etc/krb5.conf
```

```
[libdefaults]
default_realm = AD.EXAMPLE.COM
dns_lookup_realm = true
dns_lookup_kdc = true
ticket_lifetime = 24h
renew_lifetime = 7d
forwardable = true

[realms]
AD.EXAMPLE.COM = {
kdc = server.ad.example.com
admin_server = server.ad.example.com
```

```
}

[domain_realm]
.ad.example.com = AD.EXAMPLE.COM
ad.example.com = AD.EXAMPLE.COM`
```

7. Use authconfig to set up the Name Service Switch(/etc/nsswitch.conf) and PAM stacks(password-authand system-auth):

```
# authconfig --enablesssd --enablesssdauth --update
```

Above command will modify and add necessary entries in /etc/nsswitch.conf, /etc/pam.d/password-auth and /etc/pam.d/system-auth files.

8. The final step is to configure the SSSD itself. Open /etc/sssd/sssd.conf and define a single domain:

```
# vim /etc/sssd/sssd.conf
```

```
[sssd]
services = nss, pam, ssh, autofs
config_file_version = 2
domains = AD.EXAMPLE.COM

[domain/AD.EXAMPLE.COM]
id_provider = ad
# Uncomment if service discovery is not working # ad_server =
server.win.example.com
```

9. Start the SSSD and make sure it's up after reboots:

```
# systemctl start sssd
# systemctl enable sssd
```

Finally, fetch user information for AD user and then try to login as AD user:

```
# id Administrator
# ssh Administrator@localhost
```

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