[root@ipa-replica carlos]# vi /etc/resolv.conf

```
search example.com

nameserver 192.168.100.200
nameserver 192.168.100.205
```

[root@ipa-replica carlos]# vi /etc/hosts

```
192.168.100.200     ipa-server.example.com      ipa-server
192.168.100.205     ipa-replica.example.com     ipa-replica
192.168.100.201     ipa-client01.example.com    ipa-client01
192.168.100.202     ipa-client02.example.com    ipa-client02
```

[root@ipa-replica carlos]# dig example.com. any

```
; <<>> DiG 9.9.4-RedHat-9.9.4-38.el7_3.2 <<>> example.com. any
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 2963
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 9, AUTHORITY: 0, ADDITIONAL: 5

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 4096
;; QUESTION SECTION:
;example.com.                   IN      ANY

;; ANSWER SECTION:
example.com.            86400   IN      SOA     ipa-server.example.com. root.example.com. 100 86400
7200 2419200 3600
example.com.            86400   IN      NS      ipa-server.example.com.
example.com.            86400   IN      NS      ipa-client02.example.com.
example.com.            86400   IN      NS      ipa-replica.example.com.
example.com.            86400   IN      NS      ipa-client01.example.com.
example.com.            86400   IN      A       192.168.100.202
example.com.            86400   IN      A       192.168.100.200
example.com.            86400   IN      A       192.168.100.201
example.com.            86400   IN      A       192.168.100.205

;; ADDITIONAL SECTION:
ipa-server.example.com.     86400   IN      A       192.168.100.200
ipa-replica.example.com. 86400      IN      A       192.168.100.205
ipa-client01.example.com. 86400     IN      A       192.168.100.201
```

```
ipa-client02.example.com. 86400     IN      A       192.168.100.202

;; Query time: 2 msec
;; SERVER: 192.168.100.200#53(192.168.100.200)
;; WHEN: jue feb 23 15:18:57 CET 2017
;; MSG SIZE  rcvd: 314
```

[root@ipa-replica carlos]# yum install ipa-server ipa-server-dns

[root@ipa-replica carlos]# ipa-replica-install --principal admin --password bergerac --server ipa-server.example.com --domain example.com

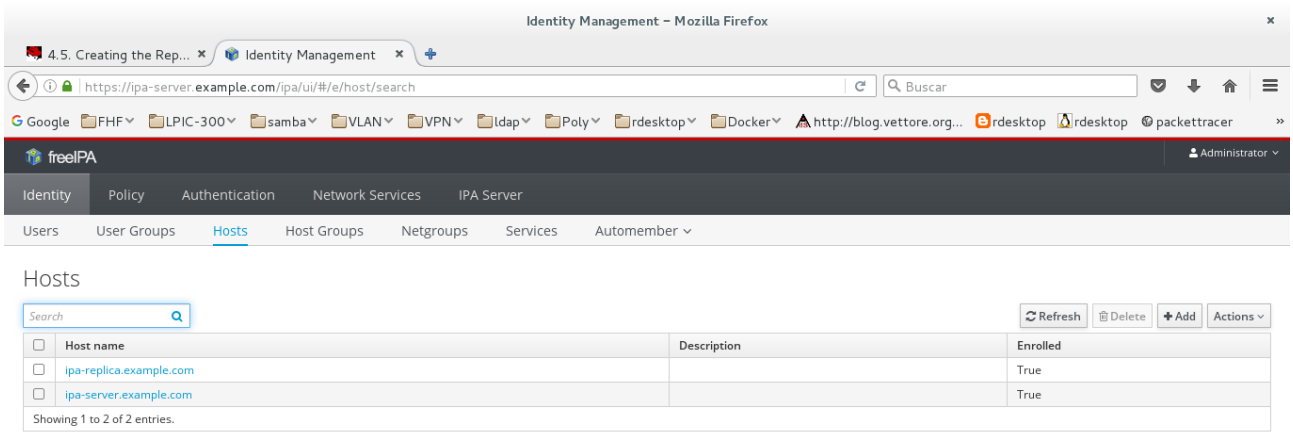
```
Configuring client side components
Client hostname: ipa-replica.example.com
Realm: EXAMPLE.COM
DNS Domain: example.com
IPA Server: ipa-server.example.com
BaseDN: dc=example,dc=com

Skipping synchronizing time with NTP server.
Successfully retrieved CA cert
    Subject:     CN=Certificate Authority,O=EXAMPLE.COM
    Issuer:      CN=Certificate Authority,O=EXAMPLE.COM
    Valid From:  Thu Feb 23 12:21:12 2017 UTC
    Valid Until: Mon Feb 23 12:21:12 2037 UTC

Enrolled in IPA realm EXAMPLE.COM
Created /etc/ipa/default.conf
New SSSD config will be created
Configured sudoers in /etc/nsswitch.conf
Configured /etc/sssd/sssd.conf
Configured /etc/krb5.conf for IPA realm EXAMPLE.COM
trying https://ipa-server.example.com/ipa/json
Forwarding 'schema' to json server 'https://ipa-server.example.com/ipa/json'
trying https://ipa-server.example.com/ipa/session/json
Forwarding 'ping' to json server 'https://ipa-server.example.com/ipa/session/json'
Forwarding 'ca_is_enabled' to json server 'https://ipa-server.example.com/ipa/session/json'
Systemwide CA database updated.
Adding SSH public key from /etc/ssh/ssh_host_rsa_key.pub
Adding SSH public key from /etc/ssh/ssh_host_ecdsa_key.pub
Adding SSH public key from /etc/ssh/ssh_host_ed25519_key.pub
Forwarding 'host_mod' to json server 'https://ipa-server.example.com/ipa/session/json'
Could not update DNS SSHFP records.
SSSD enabled
Configured /etc/openldap/ldap.conf
Configured /etc/ssh/ssh_config
Configured /etc/ssh/sshd_config
Configuring example.com as NIS domain.
Client configuration complete.
```

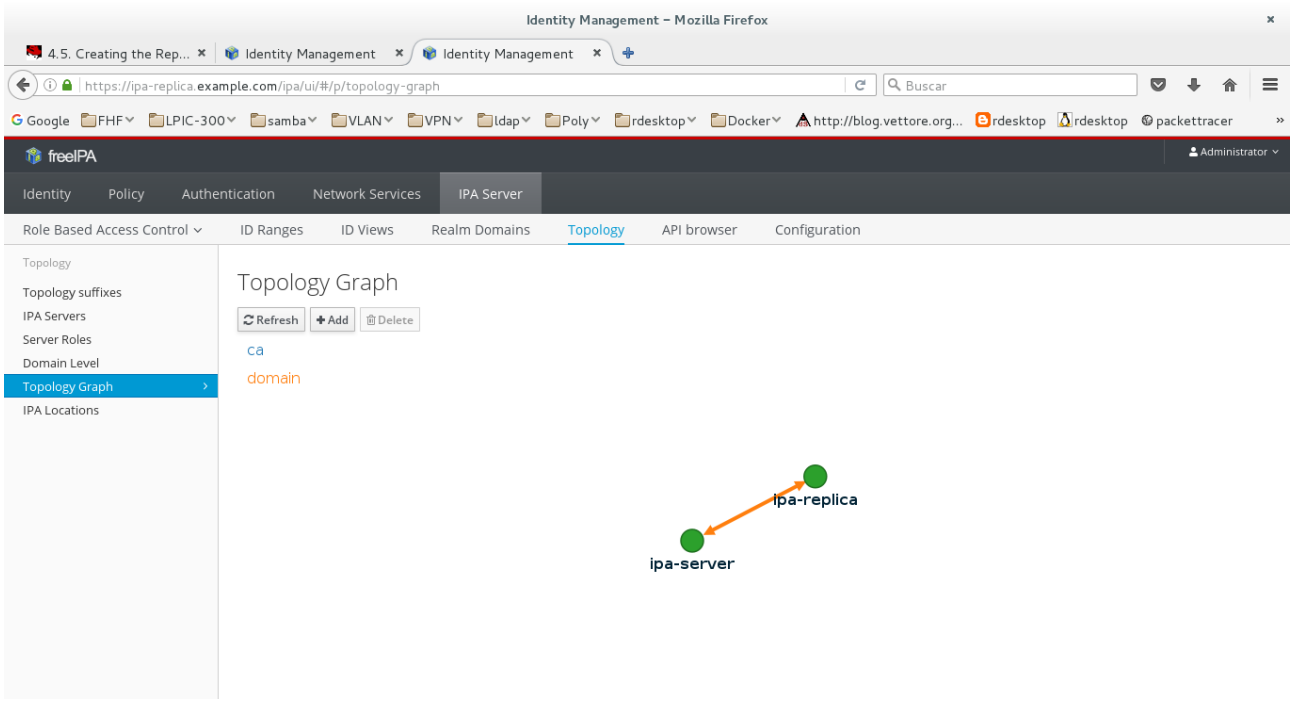
Run connection check to master
Connection check OK
Configuring NTP daemon (ntpd)
  [1/4]: stopping ntpd
  [2/4]: writing configuration
  [3/4]: configuring ntpd to start on boot
  [4/4]: starting ntpd
Done configuring NTP daemon (ntpd).
Configuring directory server (dirsrv). Estimated time: 1 minute
  [1/44]: creating directory server user
  [2/44]: creating directory server instance
  [3/44]: updating configuration in dse.ldif
  [4/44]: restarting directory server
  [5/44]: adding default schema
  [6/44]: enabling memberof plugin
  [7/44]: enabling winsync plugin
  [8/44]: configuring replication version plugin
  [9/44]: enabling IPA enrollment plugin
  [10/44]: enabling ldapi
  [11/44]: configuring uniqueness plugin
  [12/44]: configuring uuid plugin
  [13/44]: configuring modrdn plugin
  [14/44]: configuring DNS plugin
  [15/44]: enabling entryUSN plugin
  [16/44]: configuring lockout plugin
  [17/44]: configuring topology plugin
  [18/44]: creating indices
  [19/44]: enabling referential integrity plugin
  [20/44]: configuring certmap.conf
  [21/44]: configure autobind for root
  [22/44]: configure new location for managed entries
  [23/44]: configure dirsrv ccache
  [24/44]: enabling SASL mapping fallback
  [25/44]: restarting directory server
  [26/44]: creating DS keytab
  [27/44]: retrieving DS Certificate
  [28/44]: restarting directory server
  [29/44]: setting up initial replication
Starting replication, please wait until this has completed.
Update in progress, 4 seconds elapsed
Update succeeded

  [30/44]: adding sasl mappings to the directory
  [31/44]: updating schema
  [32/44]: setting Auto Member configuration
  [33/44]: enabling S4U2Proxy delegation
  [34/44]: importing CA certificates from LDAP

```
  [35/44]: initializing group membership
  [36/44]: adding master entry
  [37/44]: initializing domain level
  [38/44]: configuring Posix uid/gid generation
  [39/44]: adding replication acis
  [40/44]: enabling compatibility plugin
  [41/44]: activating sidgen plugin
  [42/44]: activating extdom plugin
  [43/44]: tuning directory server
  [44/44]: configuring directory to start on boot
Done configuring directory server (dirsrv).
Configuring ipa-custodia
  [1/5]: Generating ipa-custodia config file
  [2/5]: Generating ipa-custodia keys
  [3/5]: Importing RA Key
/usr/lib/python2.7/site-packages/urllib3/connection.py:251: SecurityWarning: Certificate has no
`subjectAltName`, falling back to check for a `commonName` for now. This feature is being
removed by major browsers and deprecated by RFC 2818. (See
https://github.com/shazow/urllib3/issues/497 for details.)
  SecurityWarning
  [4/5]: starting ipa-custodia
  [5/5]: configuring ipa-custodia to start on boot
Done configuring ipa-custodia.
Configuring Kerberos KDC (krb5kdc). Estimated time: 30 seconds
  [1/4]: configuring KDC
  [2/4]: adding the password extension to the directory
  [3/4]: starting the KDC
  [4/4]: configuring KDC to start on boot
Done configuring Kerberos KDC (krb5kdc).
Configuring kadmin
  [1/2]: starting kadmin
  [2/2]: configuring kadmin to start on boot
Done configuring kadmin.
Configuring ipa_memcached
  [1/2]: starting ipa_memcached
  [2/2]: configuring ipa_memcached to start on boot
Done configuring ipa_memcached.
Configuring the web interface (httpd). Estimated time: 1 minute
  [1/20]: setting mod_nss port to 443
  [2/20]: setting mod_nss cipher suite
  [3/20]: setting mod_nss protocol list to TLSv1.0 - TLSv1.2
  [4/20]: setting mod_nss password file
  [5/20]: enabling mod_nss renegotiate
  [6/20]: adding URL rewriting rules
  [7/20]: configuring httpd
  [8/20]: configure certmonger for renewals
  [9/20]: setting up httpd keytab
  [10/20]: setting up ssl
```

```
  [11/20]: importing CA certificates from LDAP
  [12/20]: publish CA cert
  [13/20]: clean up any existing httpd ccache
  [14/20]: configuring SELinux for httpd
  [15/20]: create KDC proxy user
  [16/20]: create KDC proxy config
  [17/20]: enable KDC proxy
  [18/20]: restarting httpd
  [19/20]: configuring httpd to start on boot
  [20/20]: enabling oddjobd
Done configuring the web interface (httpd).
Applying LDAP updates
Upgrading IPA:
  [1/9]: stopping directory server
  [2/9]: saving configuration
  [3/9]: disabling listeners
  [4/9]: enabling DS global lock
  [5/9]: starting directory server
  [6/9]: upgrading server
  [7/9]: stopping directory server
  [8/9]: restoring configuration
  [9/9]: starting directory server
Done.
Configuring ipa-otpd
  [1/2]: starting ipa-otpd
  [2/2]: configuring ipa-otpd to start on boot
Done configuring ipa-otpd.
```




Identity Management – Mozilla Firefox
4.5. Creating the Rep...
Identity Management
Identity Management
https://ipa-replica.example.com/ipa/ui/#/p/topology-graph
Buscar
Google
FHF
LPIC-300
samba
VLAN
VPN
ldap
Poly
rdesktop
Docker
http://blog.vettore.org...
rdesktop
rdesktop
packettracer
freeIPA
Administrator
Identity
Policy
Authentication
Network Services
IPA Server
Role Based Access Control
ID Ranges
ID Views
Realm Domains
Topology
API browser
Configuration
Topology
Topology suffixes
IPA Servers
Server Roles
Domain Level
Topology Graph
IPA Locations
Topology Graph
Refresh
Add
Delete
ca
domain
ipa-replica
ipa-server