```
joe@ns1:/etc/bind$ echo "Now to make reverse DNS work!"
Now to make reverse DNS work!
joe@ns1:/etc/bind$
```

```
joe@ns1:/etc/bind$ dig @144.38.199.36 36.32-47.199.38.144.in-addr.arpa^C
joe@ns1:/etc/bind$ echo "That dns request will hopefully work by the time
 we are done"
That dns request will hopefully work by the time we are done
joe@ns1:/etc/bind$ echo "Make bind aware of our reverse zone"
Make bind aware of our reverse zone
joe@ns1:/etc/bind$ sudo vi /etc/bind/named.conf.local
```

```
joe@ns1:/etc/bind$ echo "I am going to start with my existing domain zone
, but will heavily modify it"
I am going to start with my existing domain zone, but will heavily modify
 it
joe@ns1:/etc/bind$ sudo cp db.thegummibear.com db.32-47.199.38.144.in-add
r.arpa
joe@ns1:/etc/bind$ sudo vi db.32-47.199.38.144.in-addr.arpa
```

```
; db file for thegummibear.com
; this is just a comment and is not important
;
;
$TTL    86400
@       IN      SOA     ns1.thegummibear.com. root.ns1.thegummibear.com. (
                            27              ; Serial
                            604800          ; Refresh
                            86400           ; Retry
                            2419200         ; Expire
                            86400 )         ; Negative Cache TTL
;

@       IN      NS      ns1.thegummibear.com.
@       IN      NS      ns2.thegummibear.com.


; The top part can be left the same
; the important part are the following pointer records
; every fqdn has to end with a dot (.)
; and in the first column, only put the last octet

35      IN      PTR fs.thegummibear.com.
36      IN      PTR ns1.thegummibear.com.
37      IN      PTR ns2.thegummibear.com.
38      IN      PTR www.thegummibear.com.
39      IN      PTR db.thegummibear.com.
40      IN      PTR mail.thegummibear.com.
~
~
~
"db.32-47.199.38.144.in-addr.arpa" 27L, 707B written            20,50        All
```

```
joe@ns2:/etc/bind$ echo "Create zone declaration on slave"
Create zone declaration on slave
joe@ns2:/etc/bind$ sudo vi named.conf.local
```

```
zone "thegummibear.com" {
  type slave;
  file "db.thegummibear.com"; //relative path, stores it in /var/cache/bind
  masters { 144.38.199.36; };
  allow-query { any; };
  notify no;
};
zone "utahtech.rocks" {
  type slave;
  file "db.utahtech.rocks";
  masters { 144.38.199.36; };
  allow-query { any; };
  notify no;
};

zone "32-47.199.38.144.in-addr.arpa" {
  type slave;
  file "db.32-47.199.38.144.in-addr.arpa";
  masters { 144.38.199.36; };
  allow-query { any; };
  notify no;
};
~
"named.conf.local" 22L, 492B                                    18,42          All
```

```
joe@ns2:/etc/bind$ sudo service bind9 restart
joe@ns2:/etc/bind$
```

```
Aug 11 19:00:55 ns2 named[88858]: zone 0.in-addr.arpa/IN: loaded serial 1
Aug 11 19:00:55 ns2 named[88858]: zone 127.in-addr.arpa/IN: loaded serial 1
Aug 11 19:00:55 ns2 named[88858]: zone localhost/IN: loaded serial 2
Aug 11 19:00:55 ns2 named[88858]: zone thegummibear.com/IN: loaded serial 26
Aug 11 19:00:55 ns2 named[88858]: zone utahtech.rocks/IN: loaded serial 3
Aug 11 19:00:55 ns2 named[88858]: zone 255.in-addr.arpa/IN: loaded serial 1
Aug 11 19:00:55 ns2 named[88858]: all zones loaded
Aug 11 19:00:55 ns2 systemd[1]: Started BIND Domain Name Server.
Aug 11 19:00:55 ns2 named[88858]: running
Aug 11 19:00:55 ns2 named[88858]: zone 32-47.199.38.144.in-addr.arpa/IN: Transfe
r started.
Aug 11 19:00:55 ns2 named[88858]: transfer of '32-47.199.38.144.in-addr.arpa/IN'
 from 144.38.199.36#53: connected using 144.38.199.36#53
Aug 11 19:00:55 ns2 named[88858]: zone 32-47.199.38.144.in-addr.arpa/IN: transfe
rred serial 26
Aug 11 19:00:55 ns2 named[88858]: transfer of '32-47.199.38.144.in-addr.arpa/IN'
 from 144.38.199.36#53: Transfer status: success
Aug 11 19:00:55 ns2 named[88858]: transfer of '32-47.199.38.144.in-addr.arpa/IN'
 from 144.38.199.36#53: Transfer completed: 1 messages, 10 records, 533 bytes, 0
.004 secs (133250 bytes/sec) (serial 26)
Aug 11 19:00:55 ns2 named[88858]: managed-keys-zone: Key 20326 for zone . is now
 trusted (acceptance timer complete)
Aug 11 19:00:55 ns2 named[88858]: resolver priming query complete: success
(END)
```

```
joe@ns1:/etc/bind$ dig @144.38.199.36 36.32-47.199.38.144.in-addr.arpa PTR | grep PTR
; <<>> DiG 9.18.12-0ubuntu0.22.04.2-Ubuntu <<>> @144.38.199.36 36.32-47.199.38.144.in-addr
.arpa PTR
;36.32-47.199.38.144.in-addr.arpa.	IN	PTR
36.32-47.199.38.144.in-addr.arpa. 86400 IN PTR	ns1.thegummibear.com.
joe@ns1:/etc/bind$ echo "Yay it works"
Yay it works
joe@ns1:/etc/bind$ dig @localhost -x 144.38.199.40 PTR | grep PTR
; <<>> DiG 9.18.12-0ubuntu0.22.04.2-Ubuntu <<>> @localhost -x 144.38.199.40 PTR
;40.199.38.144.in-addr.arpa.	IN	PTR
40.32-47.199.38.144.in-addr.arpa. 86400 IN PTR	mail.thegummibear.com.
joe@ns1:/etc/bind$ echo "The second dig command is an easier way to dig PTR records"
The second dig command is an easier way to dig PTR records
joe@ns1:/etc/bind$ echo "THe last thing we need to do is to inject this into the global DN
S hierarchy, in the next set of screenshots"
THe last thing we need to do is to inject this into the global DNS hierarchy, in the next
set of screenshots
joe@ns1:/etc/bind$
```