

bind DNS system

BIND 9

host names update from DHCP

DDNS

```
ddns-confgen -a hmac-sha512 -k dhcp-server-key
```

```
cat > /etc/bind/dhcp.key  
chown root:bind /etc/bind/dhcp.key  
chmod 640 /etc/bind/dhcp.key
```

```
include "/etc/bind/dhcp.key";  
...
```

Test update:

```
nsupdate  
zone int.example.com  
update add kupa.int.example.com. 300 A 1.2.3.4  
show  
send
```

Issue: error: journal open failed

```
named[22943]: client @0x7f1d14623b10 192.168.64.100#19403: view internal:  
updating zone 'int.example.com/IN': adding an RR at 'kupa.int.example.com' A  
1.2.3.4  
audit[22943]: AVC apparmor="DENIED" operation="mknod"  
profile="/usr/sbin/named" name="/etc/bind/master/zone-int.example.com.jnl"  
pid=22943 comm="isc-worker0000" requested_mask="c" denied_mask="c" fsuid=106  
ouid=106  
named[22943]: master/zone-int.example.com.jnl: create: permission denied  
named[22943]: client @0x7f1d14623b10 192.168.64.100#19403: view internal:  
updating zone 'int.example.com/IN': error: journal open failed: unexpected  
error  
kernel: audit: type=1400 audit(1621169400.739:27): apparmor="DENIED"  
operation="mknod" profile="/usr/sbin/named" name="/etc/bind/master/zone-  
int.example.com.jnl" pid=22943 comm="isc-worker0000" requested_mask="c"  
denied_mask="c" fsuid=106 ouid=106
```

- Reason: by design app armor blocks modification of persistent config dir /etc. It should be done inside /var/lib/bind. In Debian, app armor is configured as:
 - /etc/bind should be read-only for bind

- /var/lib/bind is for dynamically updated zone (and journal) files.
- /var/cache/bind is for slave/stub data, since we're not the origin of it.
- Solutions:
 - Create symbolic links (see [DNS Server Configuration](#))
 - modify app armor:

[/etc/apparmor.d/local/usr.sbin.named](#)

```
/etc/bind/zones/** rw,
```

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