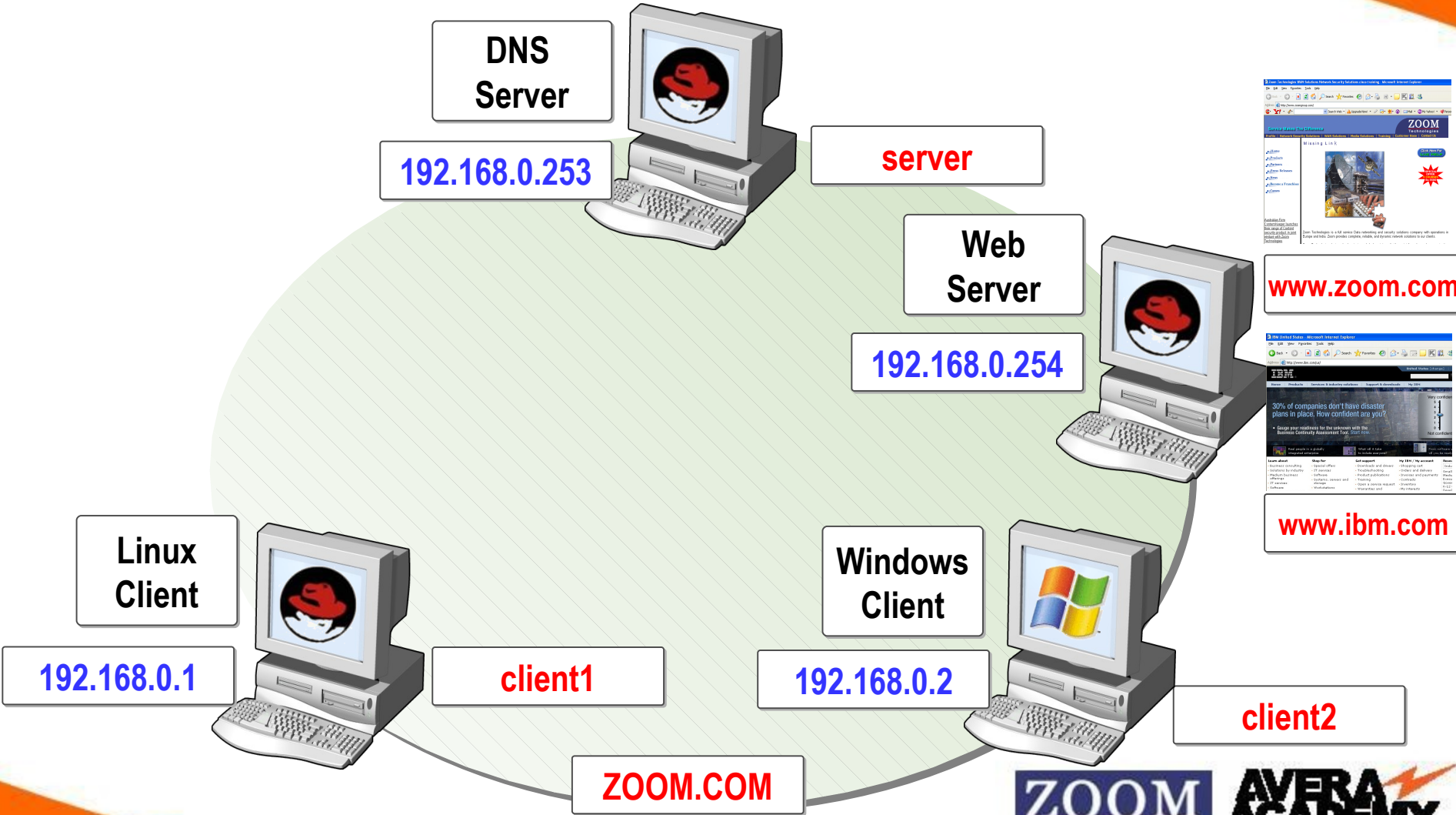


WEB SERVER

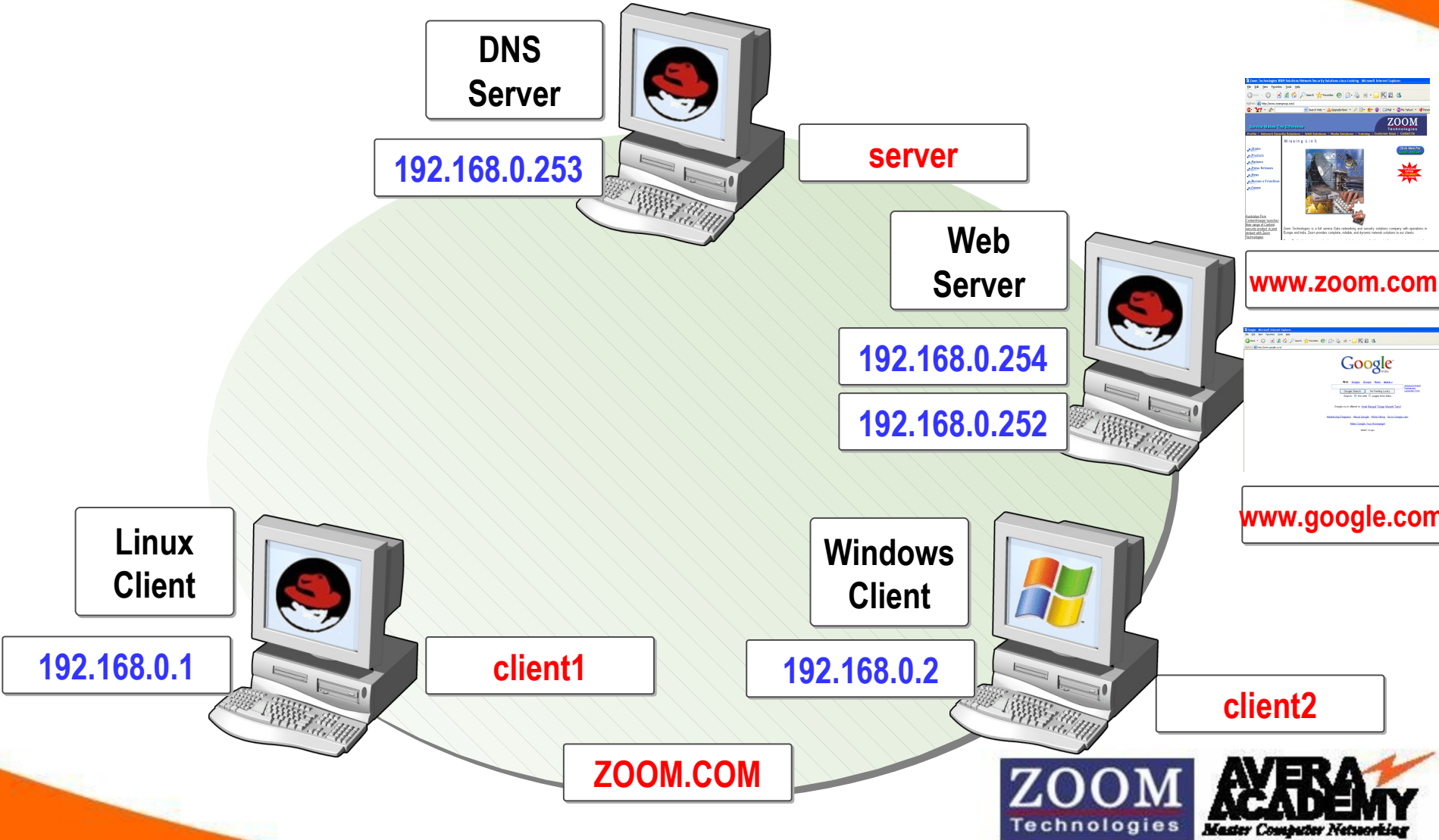
Types of Virtual Hosting

- **Name based**
- **IP based**
- **Port based**

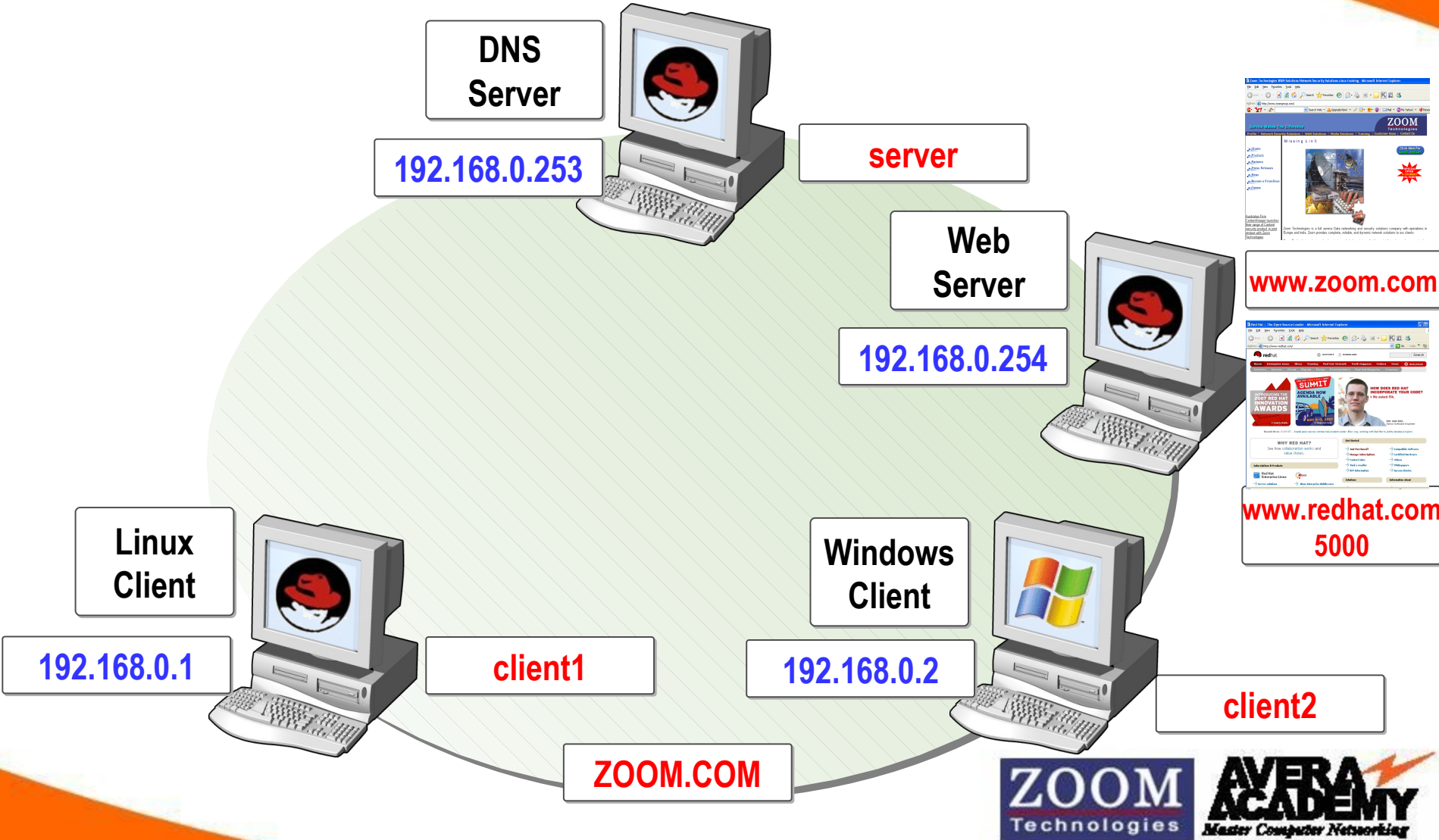
Virtual Hosting – Name based



Virtual Hosting – IP based



Virtual Hosting – Port based



Requirements

- **Packages**

httpd-2.0.52-9.ent.i386.rpm

httpd-devel-2.0.52-9.ent.i386.rpm

httpd-manual-2.0.52-9.ent.i386.rpm

httpd-suexec-2.0.52-9.ent.i386.rpm

- **Port Numbers**

80 Http

- **Configuration File**

/etc/httpd/conf/httpd.conf

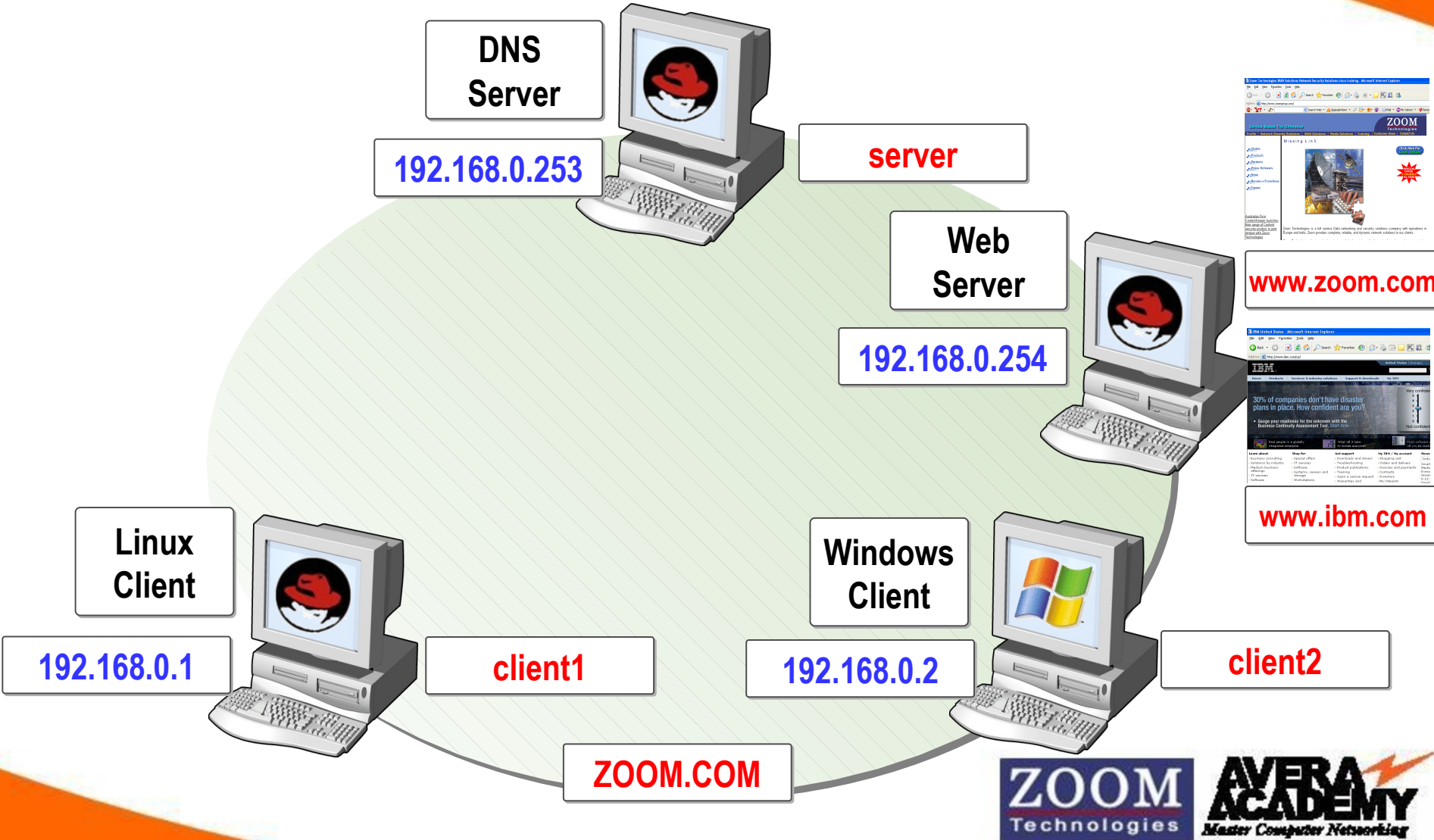
- **Service**

httpd

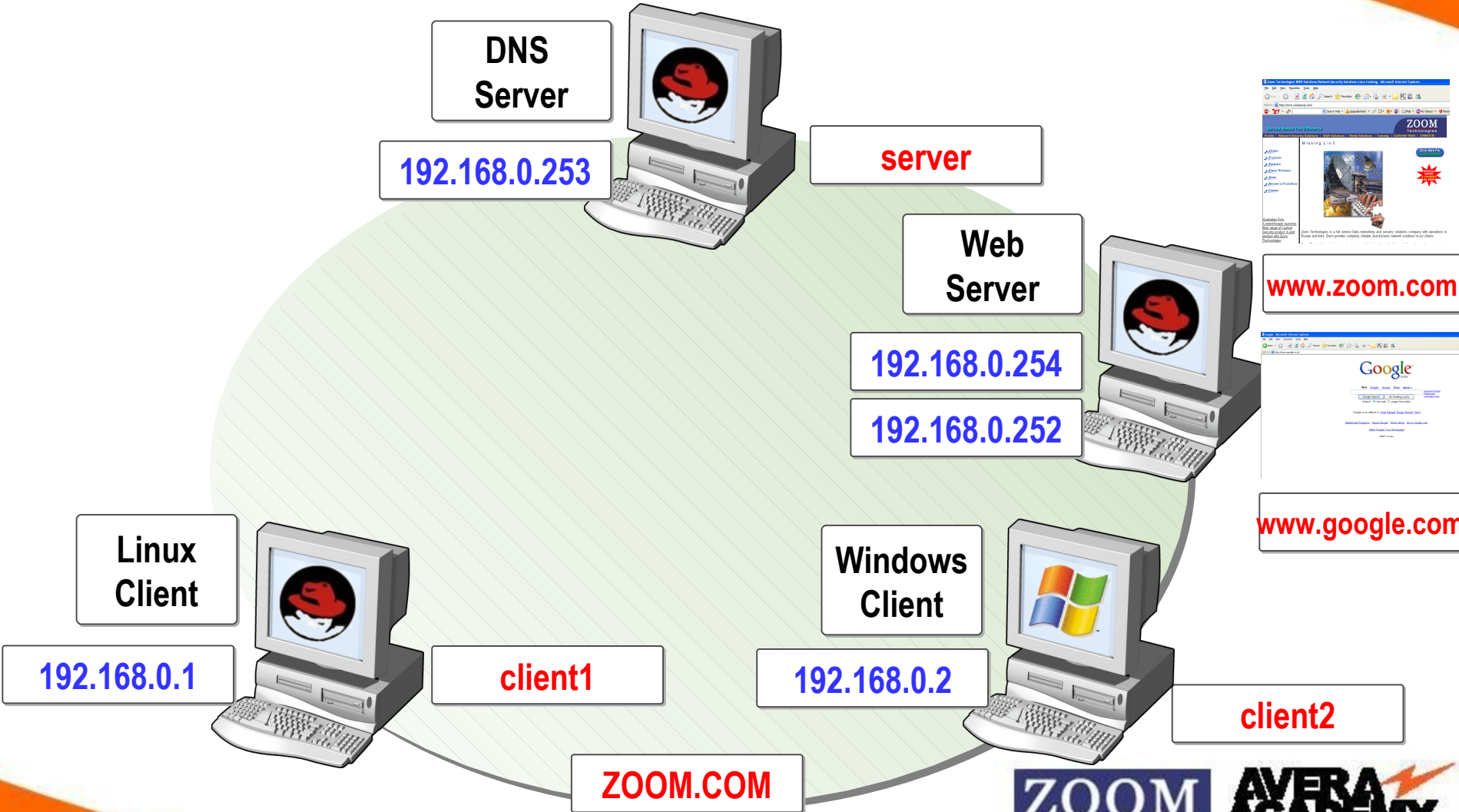
- **Daemon**

httpd

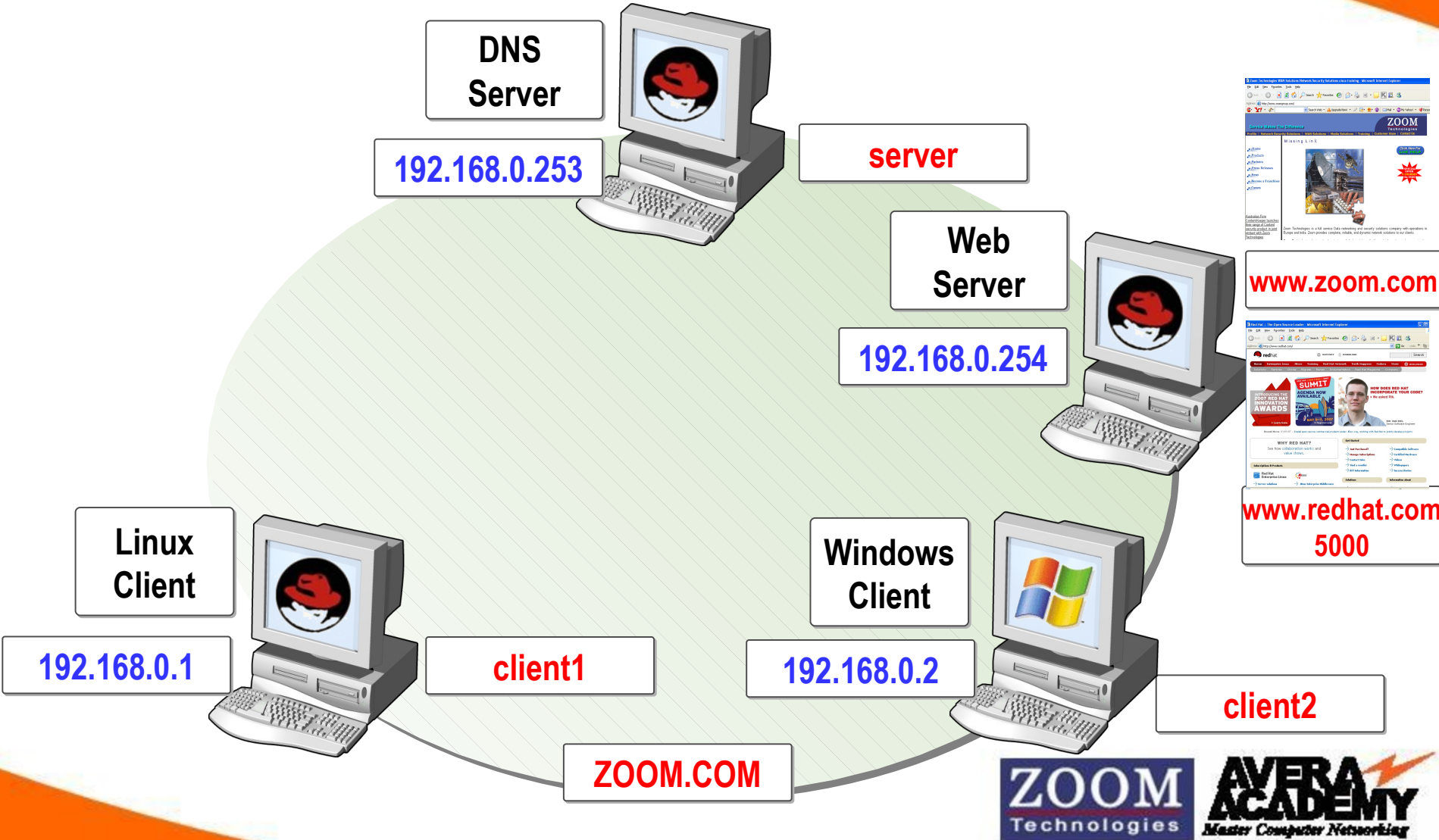
Virtual Hosting – Name Based Configuration



Virtual Hosting – IP based Configuration



Virtual Hosting – Port based Configuration



Configuring HTTP Server

Install the package by using one of the installation methods

```
[root@comp1 ~]# mount 192.168.0.250:/var/ftp/pub/RedHat/RPMS/ /mnt  
[root@comp1 ~]# cd /mnt  
[root@comp1 ~]# rpm -ivh httpd* --force --aid
```

Open configuration for editing

```
[root@comp1 ~]# vi etc/httpd/conf/httpd.conf
```

Add the below lines

NameVirtualHost *:80

<VirtualHost *:80>

ServerAdmin root@zoom.com

DocumentRoot /var/www/html

ServerName www.zoom.com

DirectoryIndex zoom.html

</VirtualHost>

<VirtualHost *:80>

ServerAdmin root@ibm.com

DocumentRoot /var/www/html

ServerName www.ibm.com

DirectoryIndex ibm.html

</VirtualHost>

HTTP Server

To restart the HTTP services

```
[root@comp1 ~]# service httpd restart
```

Configuring DNS on Client

Open configuration for editing

```
[root@comp1 ~]# vi /etc/resolv.conf
```

Add the DNS server IP address in file /etc/resolv.conf

```
nameserver 192.168.0.253
```

Accessing Webserver

- Open '**Mozilla**' or '**Fire Fox**' browser.
- In the address box type '**http://www.zoom.com**' and '**http://www.ibm.com**'

Accessing Webserver

- Open '**Internet Explorer**' or '**Netscape Navigator**' browser.
- In the address box type '**http://www.zoom.com**' and '**http://www.ibm.com**'

Configuring HTTP Server

Assigning Virtual IP address

```
[root@comp1 ~]# netconfig --device eth0:1
```

```
[root@comp1 ~]# service network restart
```

Open configuration for editing

```
[root@comp1 ~]# vi etc/httpd/conf/httpd.conf
```


/etc/httpd/conf/httpd.conf

Add the below lines

<VirtualHost 192.168.0.252:80>

ServerAdmin root@google.com

DocumentRoot /var/www/html

ServerName www.google.com

DirectoryIndex google.html

</VirtualHost>

HTTP Server

To restart the HTTP services

```
[root@comp1 ~]# service httpd restart
```

Configuring DNS on Client

Open configuration for editing

```
[root@comp1 ~]# vi /etc/resolv.conf
```

Add the DNS server IP address in file /etc/resolv.conf

```
nameserver 192.168.0.253
```

Accessing Webserver

- Open '**Mozilla**' or '**Fire Fox**' browser.
- In the address box type '**http://www.google.com**' or '**http://192.168.0.252**'

Accessing Webserver

- Open '**Internet Explorer**' or '**Netscape Navigator**' browser.
- In the address box type '**http://www.google.com**' or '**http://192.168.0.252**'

Configuring HTTP Server

Open configuration for editing

```
[root@comp1 ~]# vi etc/httpd/conf/httpd.conf
```

/etc/httpd/conf/httpd.conf

Add the below lines

LISTEN 5000

<VirtualHost 192.168.0.253:5000>

ServerAdmin root@redhat.com

DocumentRoot /var/www/html

ServerName www.redhat.com

DirectoryIndex redhat.html

</VirtualHost>

HTTP Server

To restart the HTTP services

```
[root@comp1 ~]# service httpd restart
```


Configuring DNS on Client

Open configuration for editing

```
[root@comp1 ~]# vi /etc/resolv.conf
```

Add the DNS server IP address in file /etc/resolv.conf

```
nameserver 192.168.0.253
```

Accessing Webserver

- Open **'Mozilla'** or **'Fire Fox'** browser.
- In the address box type **'http://www.redhat.com:5000'** or **'http://192.168.0.254:5000'**

Accessing Webserver

- Open '**Internet Explorer**' or '**Netscape Navigator**' browser.
- In the address box type '**http://www.redhat.com:5000**' or '**http://192.168.0.254:5000**'



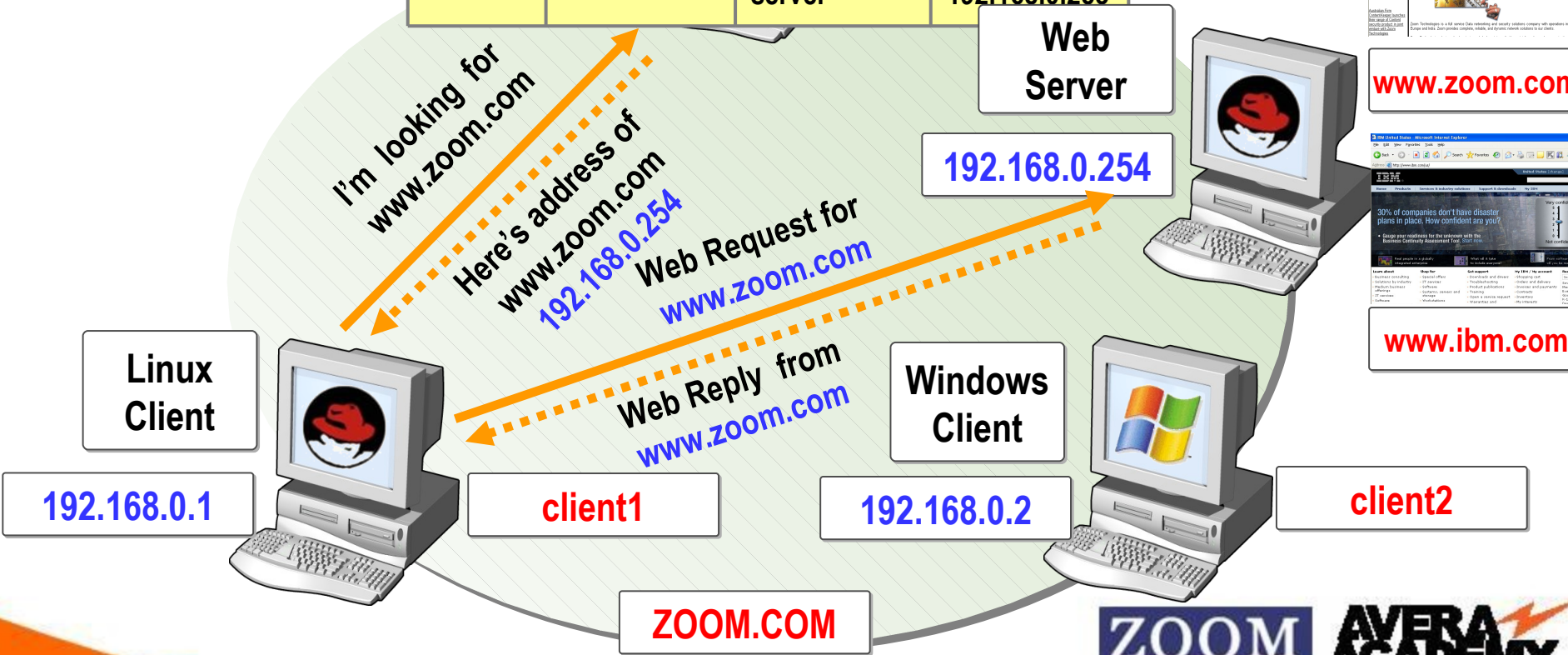
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How Web Server works ?

Forward zone	zoom.com	server2	192.168.0.254
		www	192.168.0.254
		server	192.168.0.253
Forward zone	ibm.com	server2	192.168.0.254
		www	192.168.0.254
		server	192.168.0.253



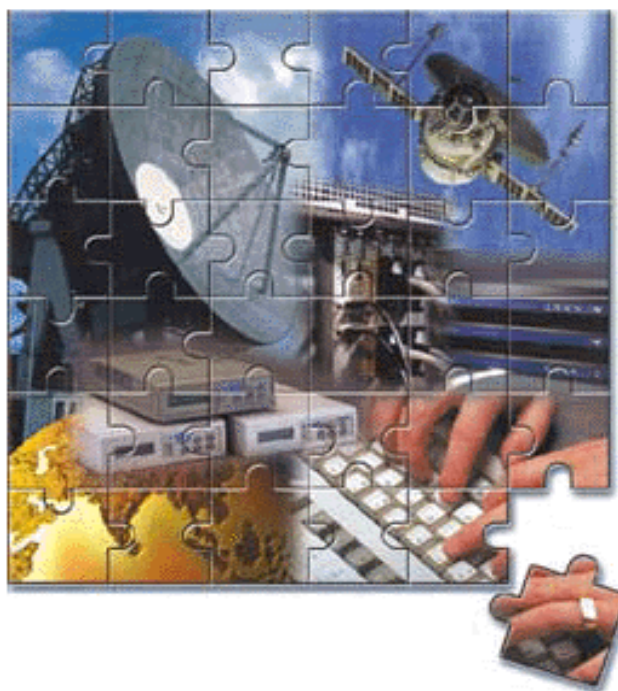
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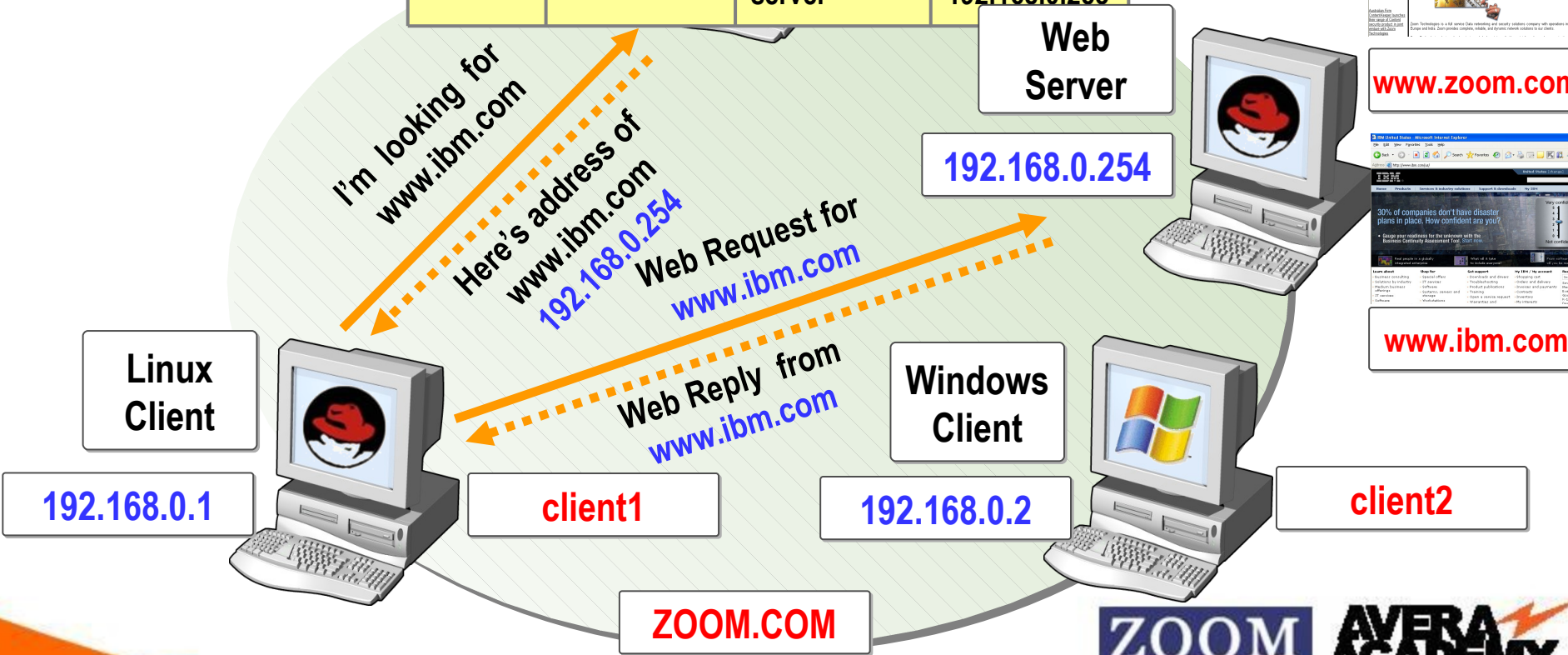
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Forward zone	zoom.com	Server2	192.168.0.254
		www	192.168.0.254
		server	192.168.0.253
Forward zone	ibm.com	server2	192.168.0.254
		www	192.168.0.254
		server	192.168.0.253



I'm looking for
www.ibm.com

Here's address of
www.ibm.com
192.168.0.254

Web Request for
www.ibm.com

Web Reply from
www.ibm.com



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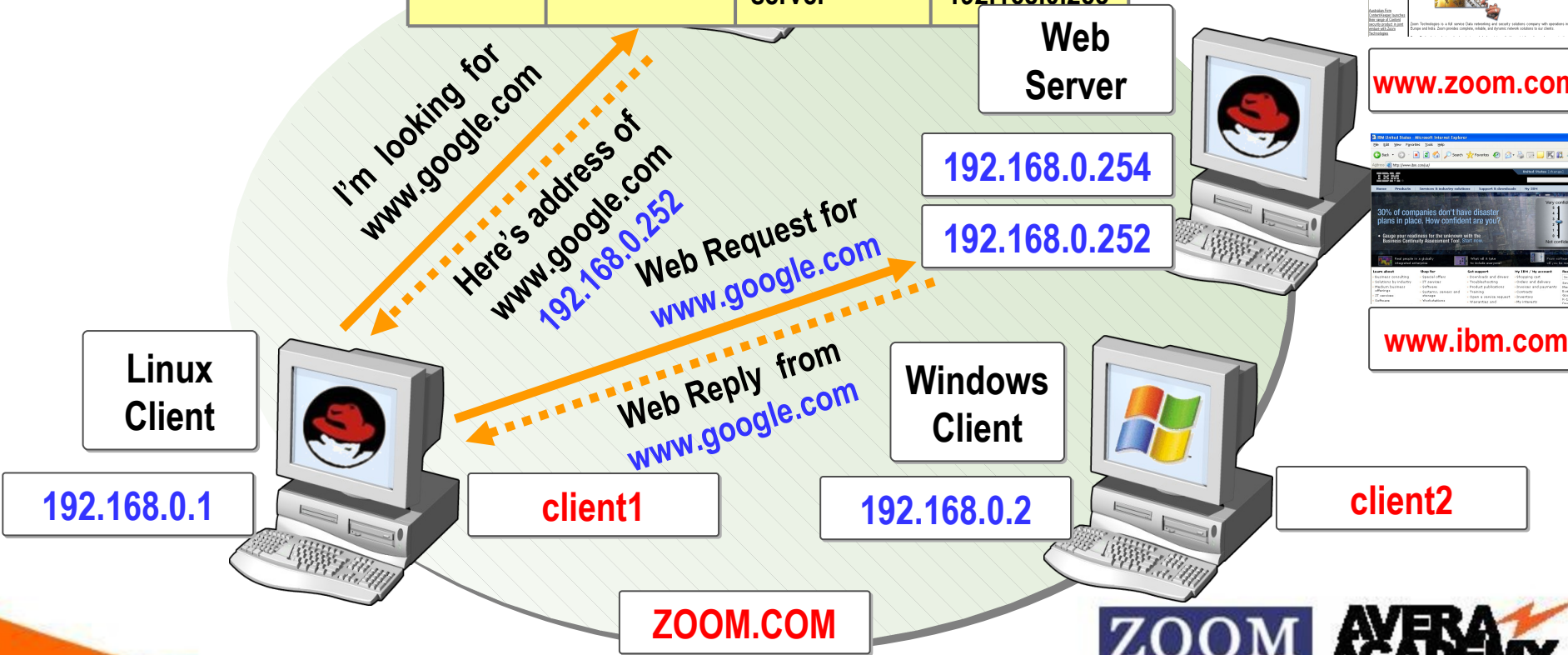
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How Web Server works ?

Forward zone	zoom.com	Server2	192.168.0.254
		www	192.168.0.254
		server	192.168.0.253
Forward zone	google.com	server2	192.168.0.252
		www	192.168.0.252
		server	192.168.0.253





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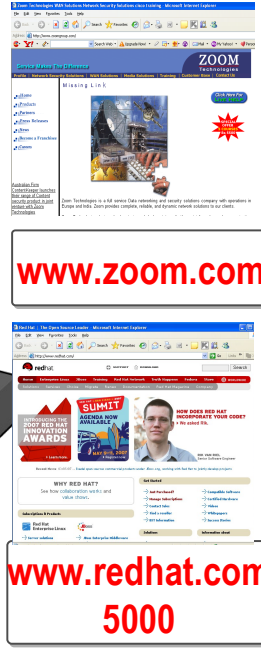
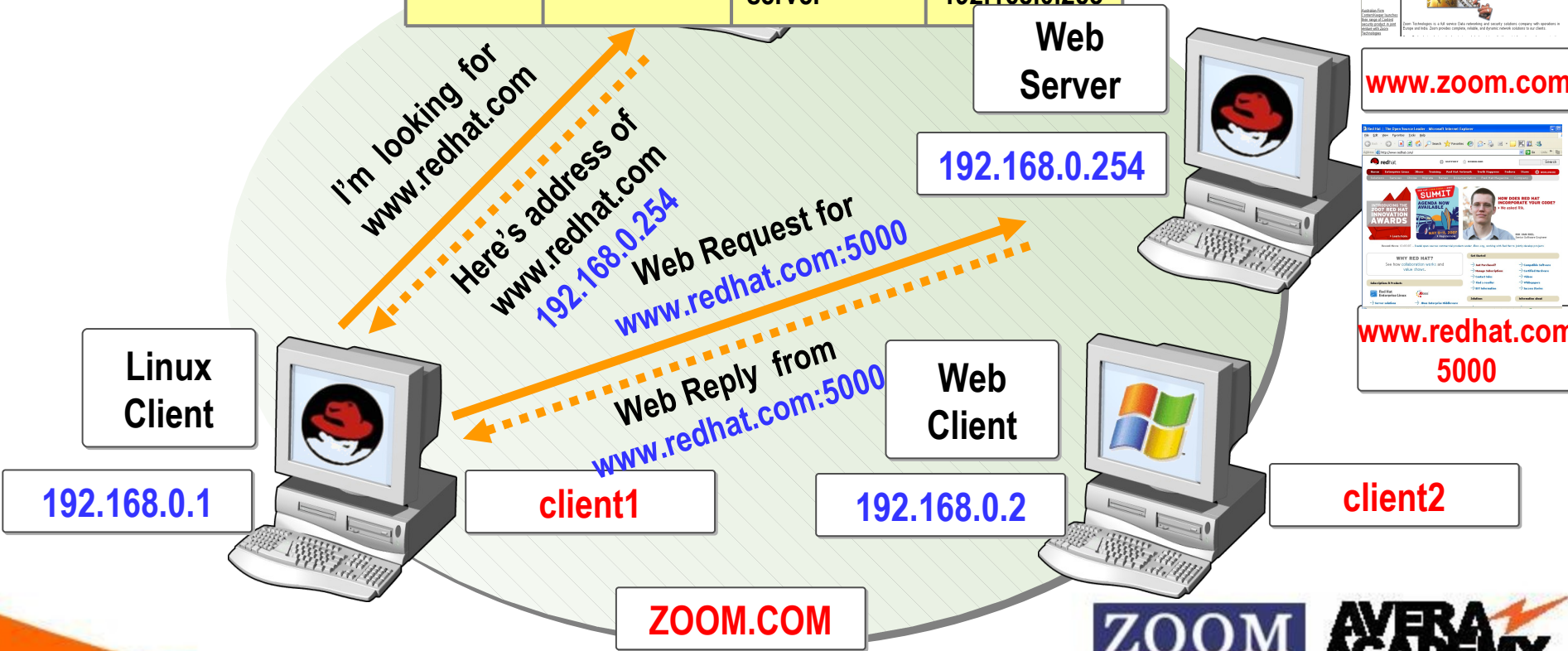
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		www	192.168.0.254
		server	192.168.0.253
Forward zone	redhat.com	server2	192.168.0.254
		www	192.168.0.254
		server	192.168.0.253





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Configuring DNS Server

Install the package by using one of the installation methods

```
[root@comp1~]# mount 192.168.0.250:/var/ftp/pub/RedHat/RPMS/ /mnt  
[root@comp1 ~]# cd /mnt  
[root@comp1 ~]# rpm -ivh bind* caching* --force --aid
```

Open configuration for editing

```
[root@comp1~]# vi /etc/named.conf
```


To change the options

```
zone "zoom.com" IN {  
    type master;  
    file "zoom.for";  
};  
zone "ibm.com" IN {  
    type master;  
    file "ibm.for";  
};
```

Configuring Forward Lookup

Copying Forward lookup zone file

```
[root@comp1 ~]# cd /var/named/chroot/var/named/  
[root@comp1 named]# cp localhost.zone zoom.for
```

Open configuration for editing

```
[root@comp1 named]# vi zoom.for
```

/var/named/chroot/var/named/zoom.for

To add the options

\$TTL 86400

```
@           IN       SOA    server.zoom.com. root.zoom.com.(  
                                     42      ; serial (d. adams)  
                                     3H      ; refresh  
                                     15M     ; retry  
                                     1W      ; expiry  
                                     1D )    ; minimum  
  
           IN       NS      server.zoom.com.  
  
server     IN       A       192.168.0.253  
  
server2   IN       A       192.168.0.254  
  
www       IN       CNAME   server2
```

Configuring Forward Lookup

Copying Forward lookup zone file

```
[root@comp1 ~]# cd /var/named/chroot/var/named/  
[root@comp1 named]# cp localhost.zone ibm.for
```

Open configuration for editing

```
[root@comp1 named]# vi ibm.for
```

/var/named/chroot/var/named/ibm.for

To add the options

\$TTL 86400

```
@           IN       SOA    server.ibm.com. root.ibm.com.(  
                                     42      ; serial (d. adams)  
                                     3H      ; refresh  
                                     15M     ; retry  
                                     1W      ; expiry  
                                     1D )    ; minimum  
  
           IN       NS      server.ibm.com.  
  
server    IN       A       192.168.0.253  
  
server2  IN       A       192.168.0.254  
  
www      IN       CNAME  server2
```

Configuring DNS Server IP address

Open configuration for editing

```
[root@comp1 ~]# vi /etc/resolv.conf
```

Add the DNS server IP address in file /etc/resolv.conf

```
nameserver 192.168.0.253
```

DNS Server

To restart the DNS services

```
[root@comp1 ~]# service named restart
```

Checking from DNS Server

Checking Forward Lookup

```
[root@comp1 ~]# dig www.zoom.com
```

```
[root@comp1 ~]# dig www.ibm.com
```

Checking Name resolution

```
[root@comp1 ~]# ping www.zoom.com
```

```
[root@comp1 ~]# ping www.ibm.com
```


Configuring DNS Server

Open configuration for editing

```
[root@comp1~]# vi /etc/named.conf
```

To add the below lines

```
zone "google.com" IN {  
    type master;  
    file "google.for";  
};
```

Configuring Forward Lookup

Copying Forward lookup zone file

```
[root@comp1 ~]# cd /var/named/chroot/var/named/  
[root@comp1 named]# cp localhost.zone google.for
```

Open configuration for editing

```
[root@comp1 named]# vi google.for
```

/var/named/chroot/var/named/google.for

To add the options

\$TTL 86400

```
@          IN      SOA    server.google.com. root.google.com.(  
                42      ; serial (d. adams)  
                3H     ; refresh  
                15M    ; retry  
                1W     ; expiry  
                1D )   ; minimum  
  
                IN      NS     server.google.com.  
  
server         IN      A      192.168.0.253  
server2        IN      A      192.168.0.252  
www            IN      CNAME  server2
```

Configuring DNS Server IP address

Open configuration for editing

```
[root@comp1 ~]# vi /etc/resolv.conf
```

Add the DNS server IP address in file /etc/resolv.conf

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```

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[root@comp1 ~]# service named restart
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```
[root@comp1 ~]# dig www.google.com
```

Checking Name resolution

```
[root@comp1 ~]# ping www.google.com
```

Configuring DNS Server

Open configuration for editing

```
[root@comp1~]# vi /etc/named.conf
```


/etc/named.conf

To add the below lines

```
zone "redhat.com" IN {  
    type master;  
    file "redhat.for";  
};
```

Configuring Forward Lookup

Copying Forward lookup zone file

```
[root@comp1 ~]# cd /var/named/chroot/var/named/  
[root@comp1 named]# cp localhost.zone redhat.for
```

Open configuration for editing

```
[root@comp1 named]# vi redhat.for
```

/var/named/chroot/var/named/redhat.for

To add the options

\$TTL 86400

```
@          IN      SOA    server.redhat.com. root.redhat.com.(  
                42      ; serial (d. adams)  
                3H     ; refresh  
                15M    ; retry  
                1W     ; expiry  
                1D )   ; minimum  
  
                IN     NS     server.redhat.com.  
  
server        IN     A      192.168.0.253  
server2       IN     A      192.168.0.254  
www           IN     CNAME  server2
```

Configuring DNS Server IP address

Open configuration for editing

```
[root@comp1 ~]# vi /etc/resolv.conf
```

Add the DNS server IP address in file /etc/resolv.conf

```
nameserver 192.168.0.253
```

DNS Server

To restart the DNS services

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[root@comp1 ~]# service named restart
```

Checking from DNS Server

Checking Forward Lookup

```
[root@comp1 ~]# dig www.redhat.com
```

Checking Name resolution

```
[root@comp1 ~]# ping www.redhat.com
```