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## Solaris UNIX Add Static Routes

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**Q.** How do I add Static Routes under Solaris UNIX? My default gateway [configured in /etc/defaultrouter](#) <sup>[2]</sup>, but what is the proper place to configure static routes for a Solaris UNIX server? Can you tell me exact configuration file name for a static routing?

**A.** There are many ways to configure static routing under Solaris UNIX.

## Task: Display current routing table

Use netstat command, enter:

```
# netstat -nr
```

## Task: Delete a route

To delete a route, enter:

```
# route delete dest gateway
# route delete myhost myrouter
```

## Method # 1: Set static routes using route command

Use route command to add static route on fly (dynamic modification of routing table), enter:

```
# route add dest gateway
# route add net 10.0.0.0 netmask 255.0.0.0 10.20.110.1
# route add net 192.168.1.0 192.168.1.254
# route add host myhostname myrotername
```

The only drawback is static routes are not persistence i.e. routing will be deleted when Solaris box get rebooted.

## Method # 2: Set static routing using /etc/gateways configuration for in.routed

The file /etc/gateways is act as configuration file for /usr/sbin/in.routed IPv4 network routing daemon. All you have to do is put static route per line using following format:

```
net Nname[/mask] gateway Gname metric value <passive | active | extern>
```

Open config file:

```
# vi /etc/gateways
```

Append following entries:

```
net 192.168.1.0 gateway 192.168.1.254 metric 1 passive
net 10.0.0.0 gateway 10.20.110.1 metric 1 active
```

You must one of these keywords must be present to indicate whether the gateway should be treated as passive or active, or whether the gateway is external to the scope of the RIP protocol. A passive gateway is not expected to exchange routing information, while gateways marked active should be willing to exchange RIP packets. The keyword passive should be used if you want the entry to be permanent. The keyword active should be used if you want in.routed to occasionally query the gateway host, and delete the route if it becomes inactive. See in.routed man page for further details.

Save and close the file. You can set default router in [/etc/defaultrouter](#) <sup>[2]</sup> file.

## Method #3 : Managing routing using routeadm command

Solaris has routeadm command which is used to administer system-wide configuration for IP forwarding and routing. IP forwarding is the passing of IP packets from one network to another; IP routing is the use of a routing protocol to determine routes. You need to use /etc/defaultrouter to setup the default route and /etc/gateways to set static routing. To start the in.routed, enter:

```
# routeadm -u -e ipv4-routing
```

To view current routing configuration, enter:

```
# routeadm
```

To stop the in.routed daemon, enter:

```
# routeadm -u -d ipv4-routing
```

## Method # 4: Old way - Create a init script

Login as root and type the command:

```
# cd /etc/rc2.d/  
# touch S99static-routes  
# chmod +x S99static-routes  
# vi S99static-routes
```

Write a shell script and append static route using route command itself:

```
#!/bin/sh  
route add net 192.168.1.0 netmask 255.255.255.0 192.168.1.254 1  
route add net 10.0.0.0 netmask 255.0.0.0 10.20.110.1
```

Save and close the file.

I recommend using method # 2 to create static routing under Solaris UNIX. See following man pages for further details:

```
$ man in.routed  
$ man route  
$ man gateways
```

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[1] Image: <http://www.cyberciti.biz/faq/faq/category/solaris-unix/>

[2] configured in /etc/defaultrouter: <http://www.cyberciti.biz/tips/howto-solaris-how-do-i-setup-a-static-route-ie-static-router-ip-address.html>