

AIX routing - How Do I Compare ODM with the Current Routing Table?

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I'm new to AIX, but not to UNIX in general. My Solaris and IRIX get rustier with each passing day. I've been using RHEL for the last several years, though.

My task is to write a shell script that compares the current routing table, from `netstat -rn`, with the ODM. There have been occasions where a new route was manually added, but not to the ODM. Weeks later the system is rebooted and the required route is missing. I want to periodically and automatically (think cron) run my script and report back to my group if there is a difference.

Is there an existing AIX tool to do this non-interactively, a *smitty* command perhaps? I'd love to use it. If not, how does AIX build the routing table at boot time? Can I examine that process to discover how it works?

Since the system has to read the ODM to build the routing table, I am considering using the output of **`lsattr -El inet0 -a route -F value`** or **`odmget -q "name=inet0" CuAt`** to build my own table and compare with the current routing table, **but I do not know how to properly parse the output from those two commands**. (Or even if those commands are general enough to find all the routes.) I found [chginet Method](#) which states the value of the route attribute is

```
route = type, [args,], destination, gateway, [metric]
```

I do not understand how this matches up with output such as this. (I've changed the IPs, but not the other values. Remember I just want to understand the layout of the data and how it builds a routing table, not to verify correctness.)

1. net,-hopcount,0,,0,10.20.225.1
2. net,,0,10.22.226.5

3. host,-hopcount,0,-,if,en1,,,,-static,172.16.25.40,10.22.160.5
4. net,10.20.226.0,-netmask,255.255.254.0,10.20.225.1
5. net,-hopcount,0,-netmask,255.255.255.0,,,10.19.215.0,10.22.160.5
6. net,-hopcount,0,-netmask,255.255.192.0,,,,,10.22.125.0,10.22.160.5

It is obvious that type = netlhost but then how do I determine when the [args,], ends and destination begins? If I should be looking for ,, I've got *way* too many commas.

Does someone have an explanation that goes into more detail than the link at [chginet Method](#)?

Some document or decision tree that would tell me something like if **arg** is **-if** or **-netmask** then you should expect this many more fields.

If I'm following the wrong path to solve my task, please point me in the right direction. I am **not** a PERL user, so I will not be able to maintain any PERL code. I am pretty darn good with the Bourne and Korn shells. My AIX systems do not have BASH installed. But I can write the code. I just need an understanding of what to look for.

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