Libvirt NSS module

(or domain name translation made easy)

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Goal

ssh user@VirtualMachine

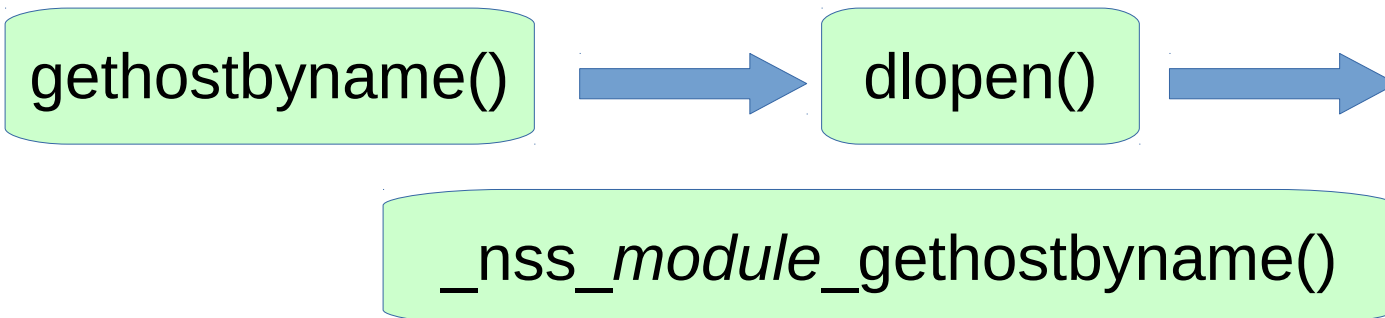ping VirtualMachine

...

glibc NSS

- NSS can do a lot more than DNS: passwd, groups, shadow, etc.

- /etc/nsswitch.conf

  ```
  hosts:          files libvirt dns
  ```

- /usr/lib64/libnss_{files,libvirt,dns}.so

```
gethostbyname()  ──▶  dlopen()  ──▶

        _nss_module_gethostbyname()
```

libnss_libvirt.so

- libvirt NATed network spawns dnsmasq
- DB @ /var/lib/libvirt/dnsmasq/`$bridge`.status
- Tuples of hostname, IP address, etc.
- virsh net-dhcp-leases $network
- NSS module consults DB

QUESTIONS?

https://libvirt.org/nss.html