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TDDI41 Lab report

Högskoleingenjörsutbildning i datateknik, 180 hp

NIS

Exercise 1: Review and preparation

- 1-1 Read about NIS and answer the following questions.
- a) What is a NIS map?

A NIS map is essentially a map structure with a key and a corresponding value.

b) What is a NIS domain? What is the NIS domain of your server and clients.

A network of a master server, optional slave servers, and a set of clients. For us, the B4-server will act as NIS server and the rest will be clients.

c) What is the name of the map that is used to look up users by name.

netgroup

d) How do users change passwords when NIS is in use? How does that work.

Preferrably, they use rpasswd which changes the password over a SSL connection.

- 1-2 Read the documentation for the commands ypcat, ypwhich and ypbind and answer the following questions.
- a) What is ypcat used for.

Print values of all keys from the NIS database specified by mapname.

b) What is ypwhich used for.

Returns the NIS server name.

c) What is ypbind used for.

Maintaining NIS binding information.

d) What does the -k command-line option to ypcat do.

Displays map keys.

e) If you want to list all users on a NIS client, what command would you use.

ypcat netgroup

f) If you want to see which NIS server a client is bound to, which command would you use.

ypwhich [hostname] (empty for localhost)

g) If you want to see the NIS domain of a client, what command would you use.

 ${\tt ypdomainname}$

Exercise 2: Directory services

2-1 Why use a directory service?

Why not? It's quite handy ...

Name one alternative to a directory service.

No directory service.

2-2 Name at least two common directory services other than NIS.

Microsoft Active Directory, LDAP