

CIA Practicum Assignments

LDAP

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October 12, 2012

1 Basic LDAP

- Install OpenLDAP. Adapt the configuration for your own host and domain name
- Install the newest version of OpenLDAP from www.openldap.org, compile it if necessary.
- Follow the quickstart guide on the OpenLDAP website to set up a working configuration.
- Populate the directory with 10 person entries
- Entries must use the `inetorgperson` schema. Enable it in the `slapd.conf`.
- Create the associated `ldif` file and import it.
- Create an `ldapsearch` command that produces all students that have a gmail account.
- Configure a mail client so that you can search for email addresses in your LDAP server.
- Publish your configuration and ldap server data on your log.

2 Custom LDAP

- Create a schema that will allow your LDAP installation to store information about non-standard objects
- chose a product category from Amazon.com. *Try to be creative in picking it as it must be different from the ones chosen by your colleagues.*

- Take a look at the schemas that are shipped with OpenLDAP (Hints `nis`, `inetorgperson`)
- Try to reuse existing `attributeTypes` and create new ones only if it's really needed. The class should inherit from `top`.
- The object class has to have at least two mandatory attributes and 3 optional attributes.
- After creating the schema, import it into `slapd` and add a 5 sample entries.
- Construct a search query that displays only 3 of the 5 entries.
- Remove one of the entries using the OpenLDAP supplied tools and rerun the above search query.

3 Extra

- Configure your machine to use LDAP as an authentication mechanism for users.
- Work together with a colleague and configure your LDAP servers for multi-master replication.