Network Monitoring and Management

Presenting Your NOC

The Network Operations Center

NOC = Network Operations Center
- Come in many forms and depend on the size of your organization and your goals.
- "One or more locations from which control is exercised over your network."
- NOCs can be:
  - Virtual
  - Located at the core of your network
  - With your help desk
  - Built in pieces
  - Etc.

The Network Operations Center

For purposes of this class each of you will create an entry on the classroom NOC wiki pages. You should enter in information about your particular PC, the router in your group, etc.

A BIG NOC

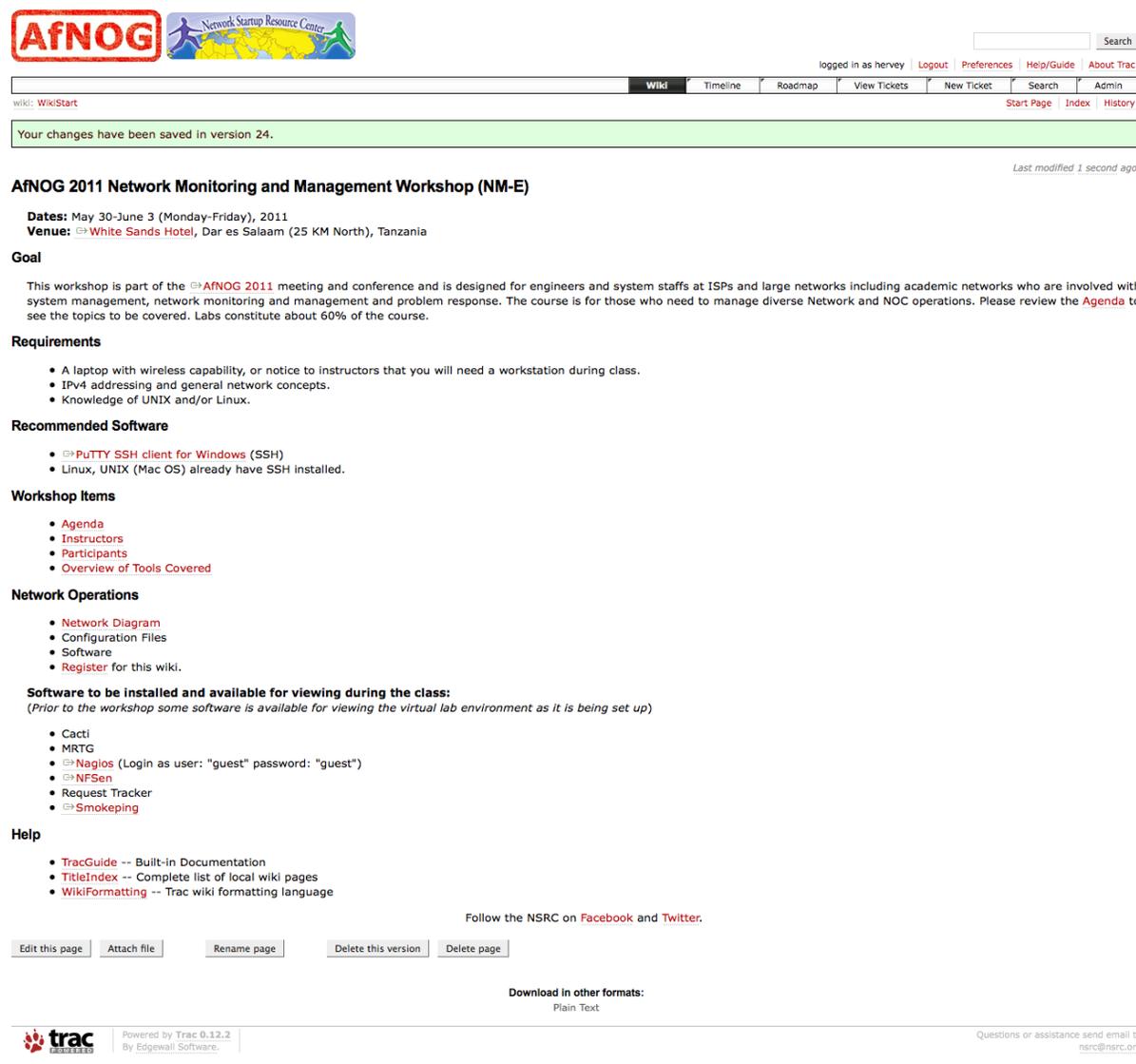

There are even bigger NOCs out there…

A small NOC

In the same room there is a desk with a phone, another computer and a monitor. This acted as the group's Help Desk.

Many network problems could be detected and solved on the spot!

Our Virtual NOC

We are working towards something like this…

Keeping "Trac" of it All

Note that Trac includes a *Timeline* feature. This includes:

- Changes to wiki pages.
    - Updates, creation, deletion and responsible user.
- Ticket history
    - Updates, creation, deletion and responsible user.
- Milestone updates

This is part of the built-in Version Control System (VCS) in Trac. Trac uses the *Subversion* VCS by default.

Trac and Subversion

You can link trac to Subversion repositories and access them via the Wiki:

Versioning and Documentation

Version Control Systems are part of any good documentation project.

During the week you will be exposed to this concept several more times.

There are many version control systems:

- CVS
- Subversion
- Mercurial
- git

Wikipedia has a good article on the concepts of "Revision Control":

http://en.wikipedia.org/wiki/Revision_control

Your Assignment

Document your network!

- – Install some wiki software on your virtual machine.

- – After each software install and configuration link to the new software in your wiki.

- – Create an entry for your PC, other PCs, routers and switches in the classroom.

- – Create or copy a classroom network diagram.

- – Add any other useful information (contacts, HOWTOs, etc.) to your wiki.

Questions

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