

Last Week Recap

Last week we covered:

- Software package management
- TCP/IP functionality
- And learned about compressing and decompressing data.

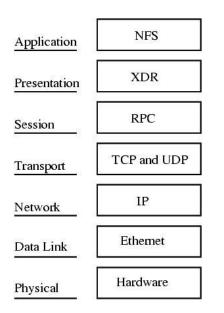
We also attended presentations on Orbit and Python

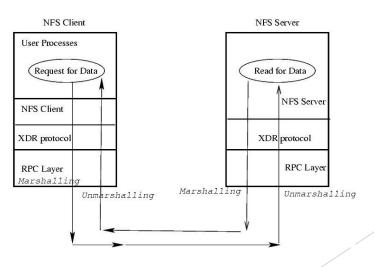
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Weekly Progress

- -Reimaged the server nodes with fog.
- -Discussed routing and IP calculations
- -Learned file systems and practiced with mdraid and zfs
- -Practiced with NFS

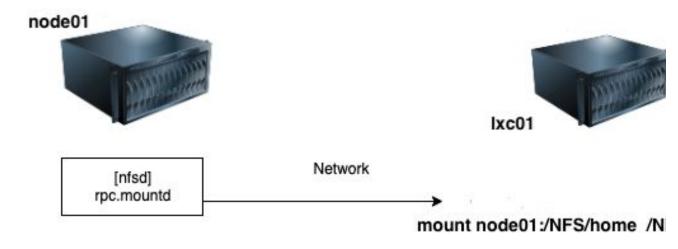
Images: The figures depict the functionalities of the NFS as it sits on top of the TCP/IP OSI 7 layer scheme.





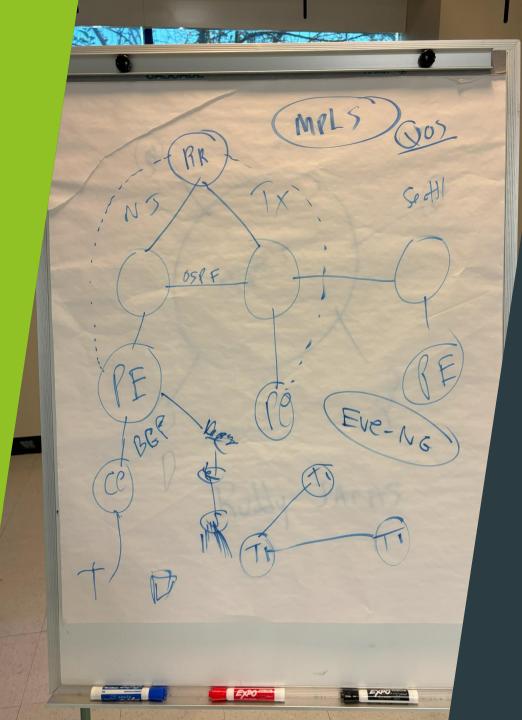
Weekly Progress

- We successfully mounted and unmounted file systems
- We created a file system using zfs where we:
 - Replaced a disk on the file system after turning it off
 - Then we unmounted our file system and deleted
 it
- We each have our own physical node and virtual containers
 - We first exported a file system that we each created on our nodes to our container
 - We then mounted the exported file system on our container



/etc/exports: /NFS/home lxc01(rw)





Wednesday Presentation

- Ruddy Jacas from AT&T came to present about service provider networks.
- The presentation covered data routing from computer to computer over one or multiple service provider networks.
- It also covered alternate routing and network testing.
- This expands on the TCP/IP functionality we learned last week.



Plans for next week

- Learn about shell scripts
 - Bash syntax
 - Conditional statements
 - Loops
 - Functions
 - Awk, grep, sed
 - Environment variables
- Managing Linux with python
 - Jupyter notebook installation
 - Python fundamentals: data types, syntax, conditional statements, loops, functions
 - Python models for interacting with Linux