Linux Network Administration

Overview
COMP1071 - Summer 2017

Topics

System management

Network configuration

DHCP service

DNS service

Web service

Database service

Email service

File service

Print service

System Management

- Access control

- Resource utilization

- Software installation, update, and removal

- Service provision

Network Configuration

- Static and dynamic interface configuration

- Host naming and addressing

- Static and dynamic routing

- Network device management

- Remote command line access and security

DHCP

- Dynamic Host Configuration Protocol

- DHCP client configuration

- DHCP DNS server and domain search prepends

- Dynamic DNS update

- ISC DHCP server
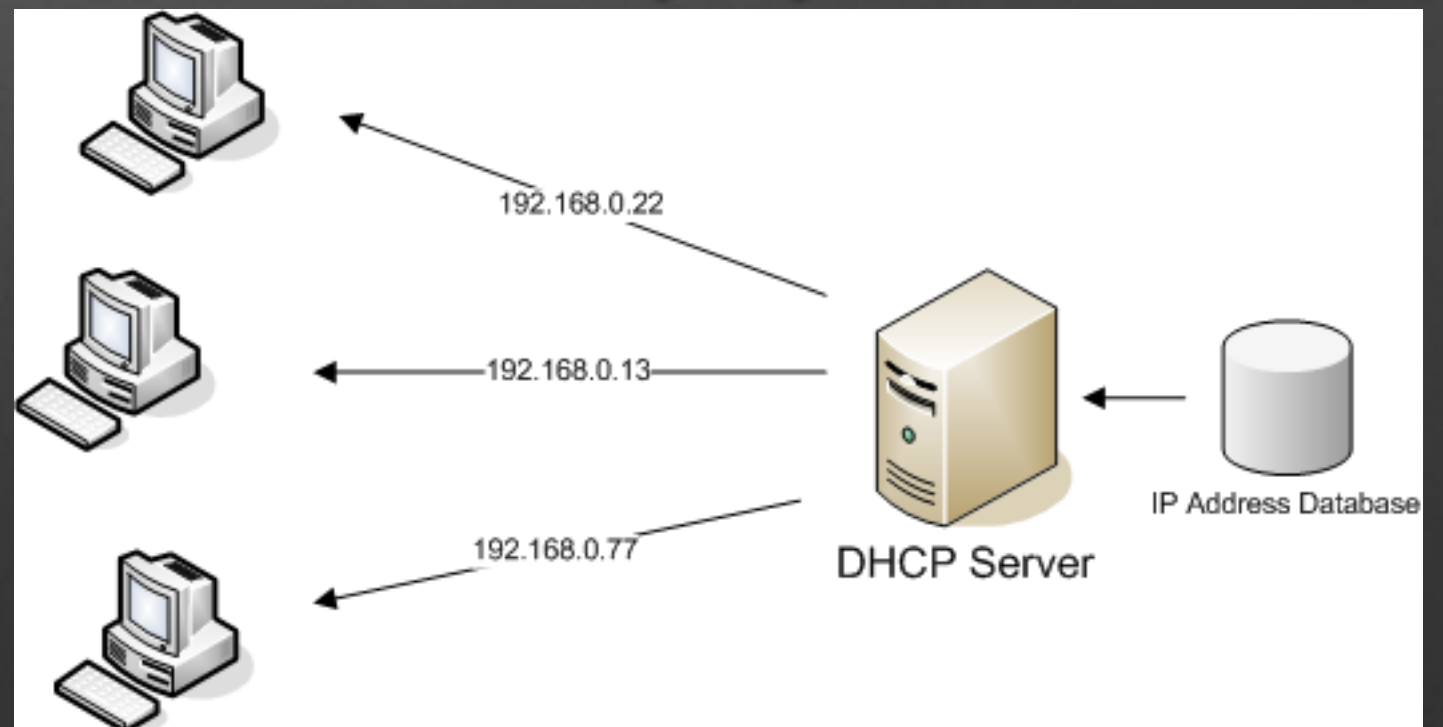
DNS

- Domain Name System

- Internet domain naming concepts

- DNS functions

- DNS resolver

- BIND - Berkeley Internet Name Daemon

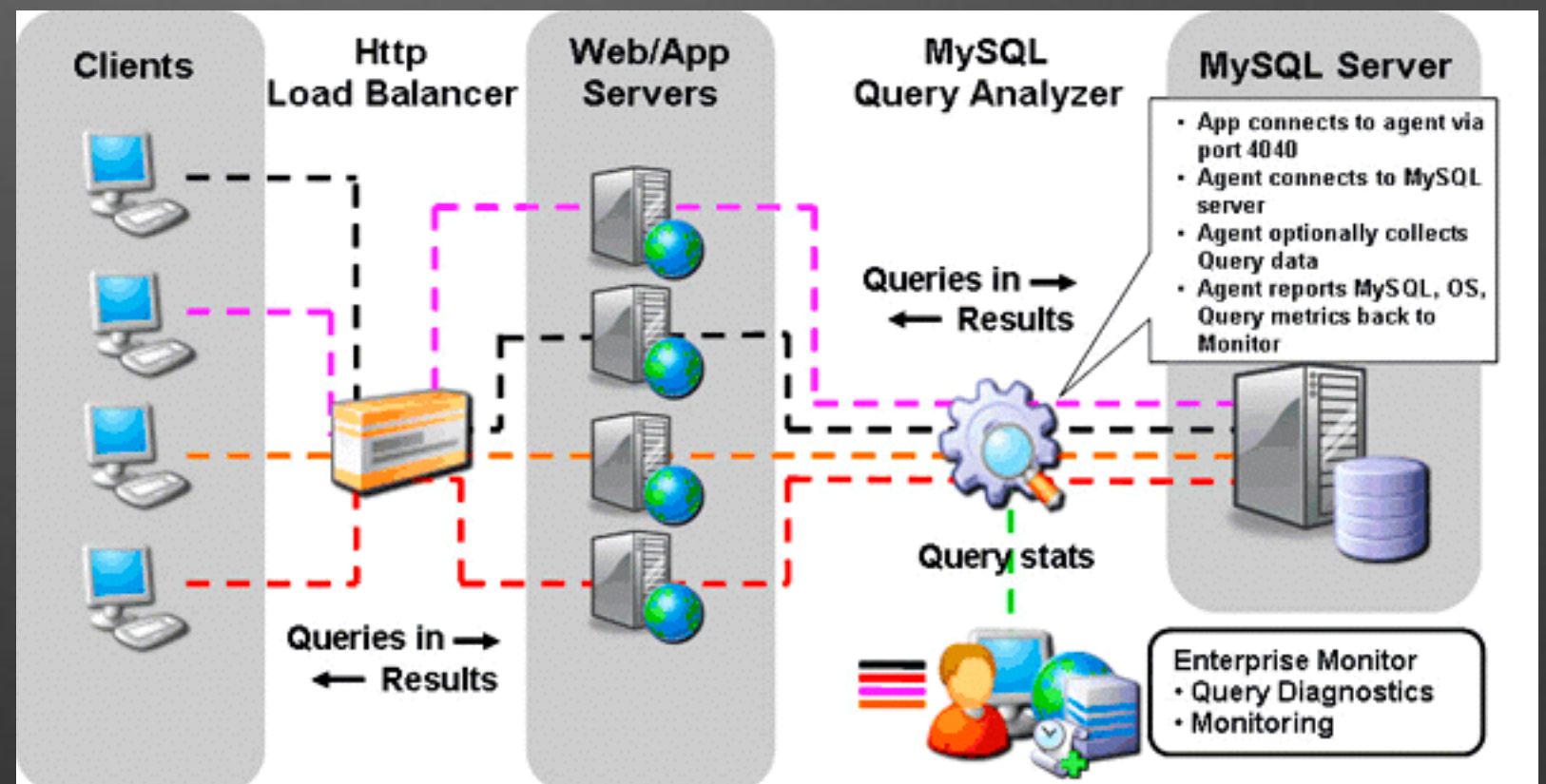- Domain registration and delegation

Web

- Web service concepts

- Apache2

- Document generation versus store

- Access control

- Virtual hosting
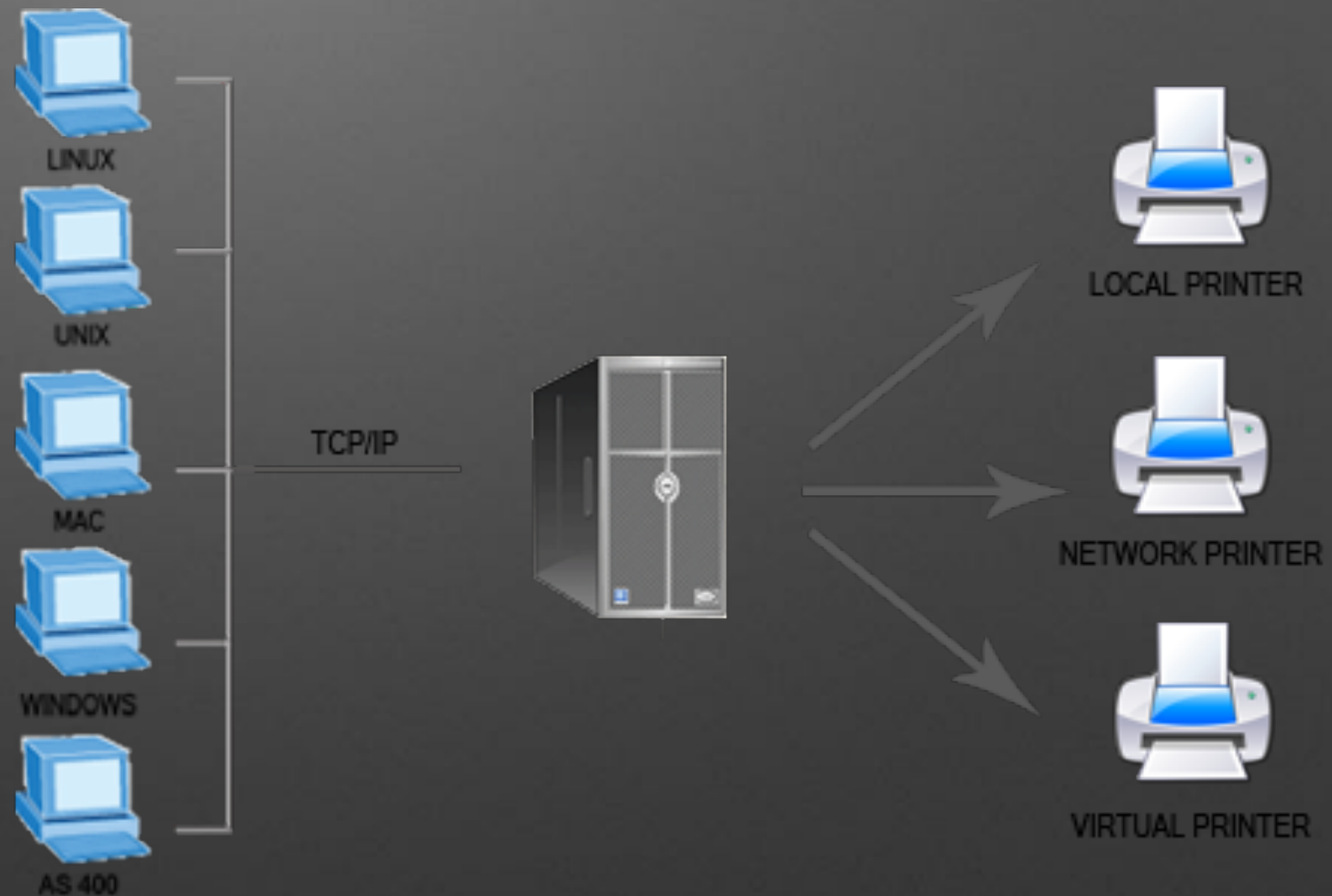
- SSL - Secure Socket Layer

Database

- Database concepts

- MySQL

- Data store

- Access control

- Phpmyadmin

Print Service

- CUPS - Common UNIX Printing System

- PDF virtual printer

- Web Administration

- Access control

Email

- Email concepts

- Transport

- User access

- Message store

- Roundcube

File Service

- NFS - Network File System

- Samba

- HTTP and FTP