



# Intro & Advanced DNS & BIND Course Syllabus

## Introduction -- Class Overview

- \* A brief Internet history
- \* DNS - Goals and Principles
- \* Name Servers - General Operation
- \* Resolver (Client) Configuration
- \* Overview of BIND - The Application
- \* Building BIND - Source Code to Binary
- \* BIND Daemon Configuration
- \* Utilities - dig, checkconf, checkzone, rndc \* Resource Records and Record Types
- \* Delegation of Zones
- \* Debugging Domain Name Service issues

## Introduction -- Labs

- \* Resolver Configuration \* Building BIND
- \* Configuring BIND
- \* Creating Zones

- \* Zone Delegation

## Advanced DNS and BIND Topics (including DNSSEC) Advanced -- Class Overview

- \* Overview of RFC 1918 (private addressing) in DNS
- \* Delegating Inverse Addresses (IN-ADDR)

- \* Cryptography in DNS
- \* Transaction Signatures
- \* Remote control access using TSIG
- \* Access Control Lists
- \* Administrator Defined Resource Records
- \* Multiple Views
- \* Interaction between DNS and Firewalls
- \* Dynamic DNS Updates
- \* DNS Security (DNSSEC)
- \* DLV (Domain Look-aside Validation) - DNSSEC when

the parent isn't signed

## Advanced -- Labs

- \* IN-ADDR delegation
- \* TSIG - Server to Server \* Views
- \* Dynamic Updates
- \* DNSSEC Deployment
- \* DLV