

BRO AND BRO-IDS

File Extraction
HTTP, FTP, SMTP, IRC



Presented by
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2013-2-25

ABOUT ME



History

- 17 Years Consulting (1995)
- BS in CS from XU
- Dozens of Vender Certs
- Speak/Train- Shmooscon, Skydogcon
- “Applied NSM” Summer of 2013

- Bro-IDS
- SecurityOnion

- Liam.Randall@gmail.com
- @Hectaman Twitter/IRC



LINKS



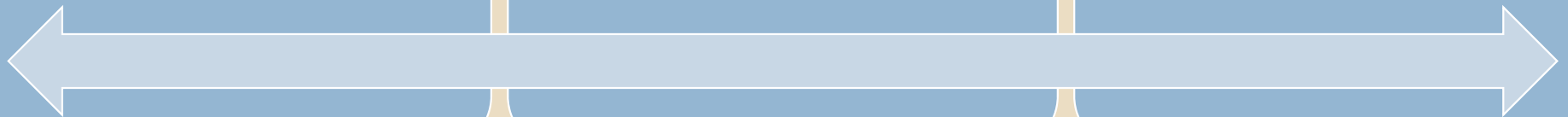
Github
[github/liamrandall](https://github.com/liamrandall)



#Bro_IDS
@Hectaman
@Bro_IDS



<http://bro-ids.org>





PRESENTATION OVERVIEW

Bro Features

Feature
Overview

Background

Log & Event
Structure

How To

Protocol
Settings

Code Mods

Demonstrations

HTTP

Mime Types



PROTOCOLS

Why File Extraction

- + Archive by type
- + Further Analysis
- + ??? Detection



HTTP



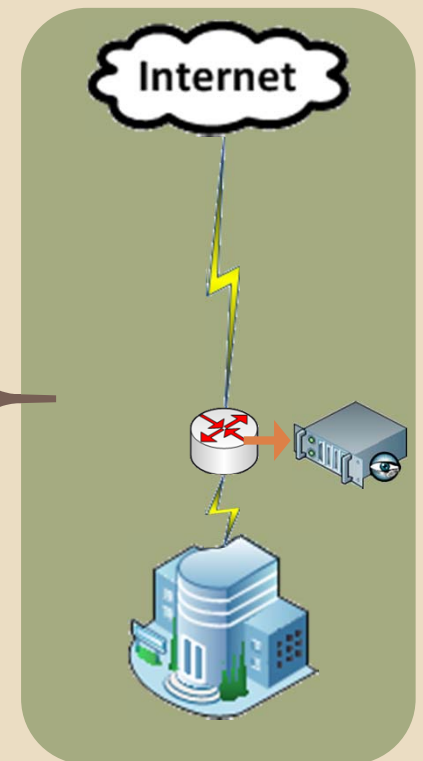
SMTP



FTP



IRC



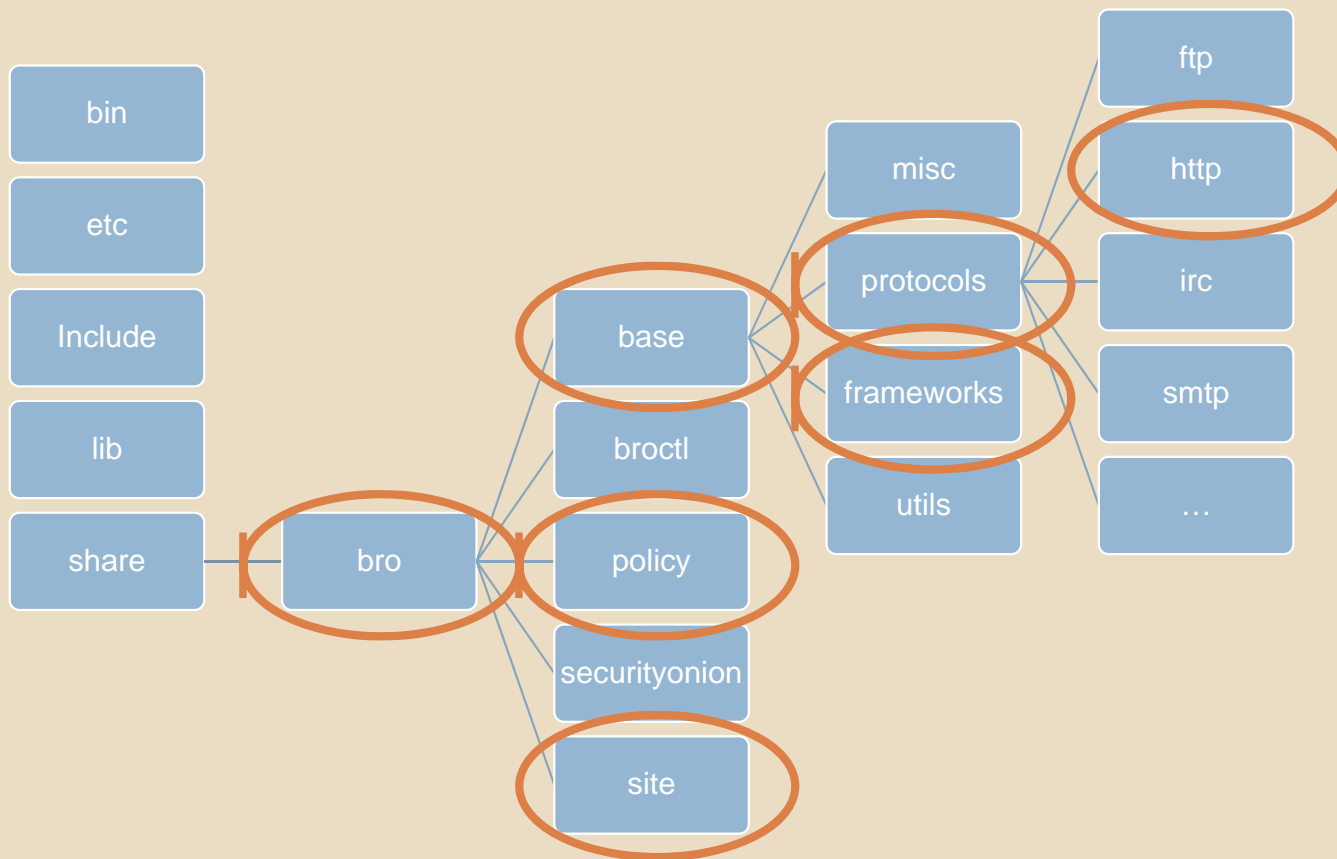
FOLLOW ALONG

Documentation

<http://www.bro-ids.org/documentation/quickstart.html>

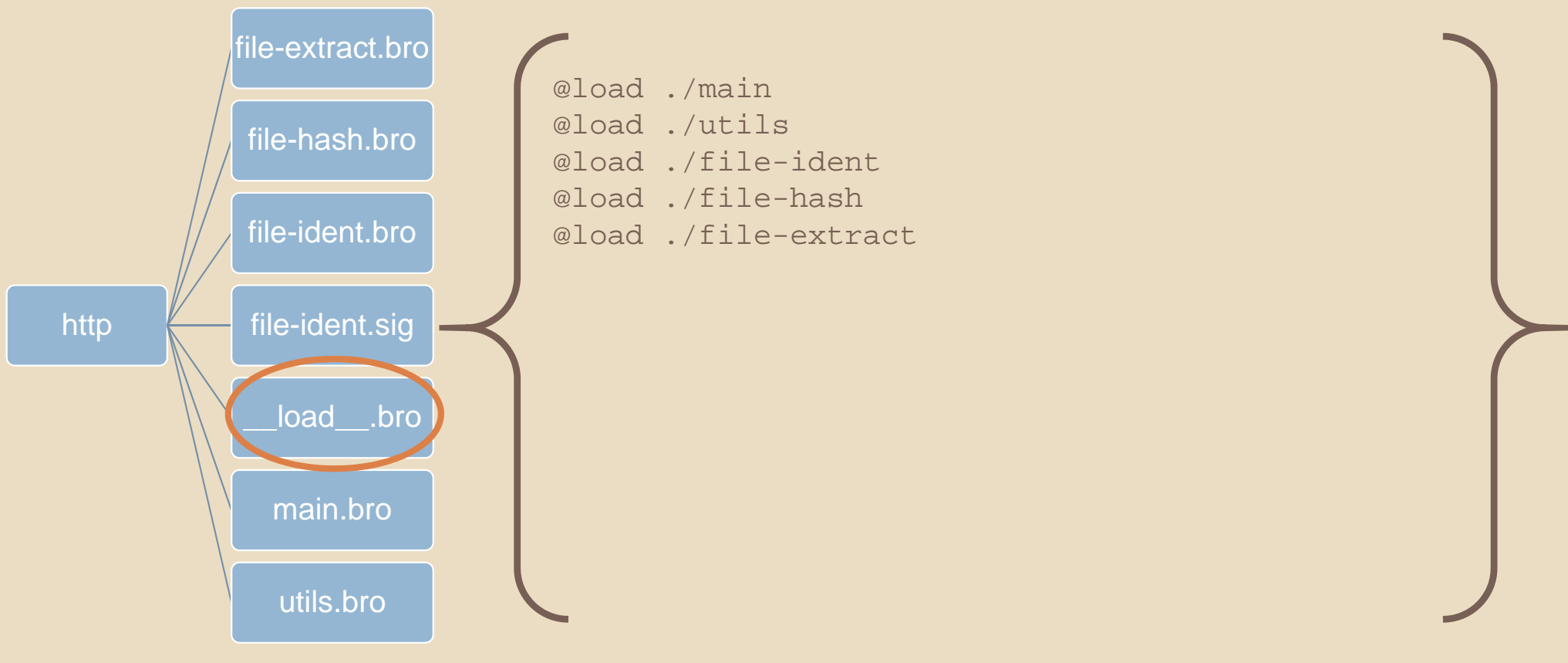


DIRECTORY STRUCTURE



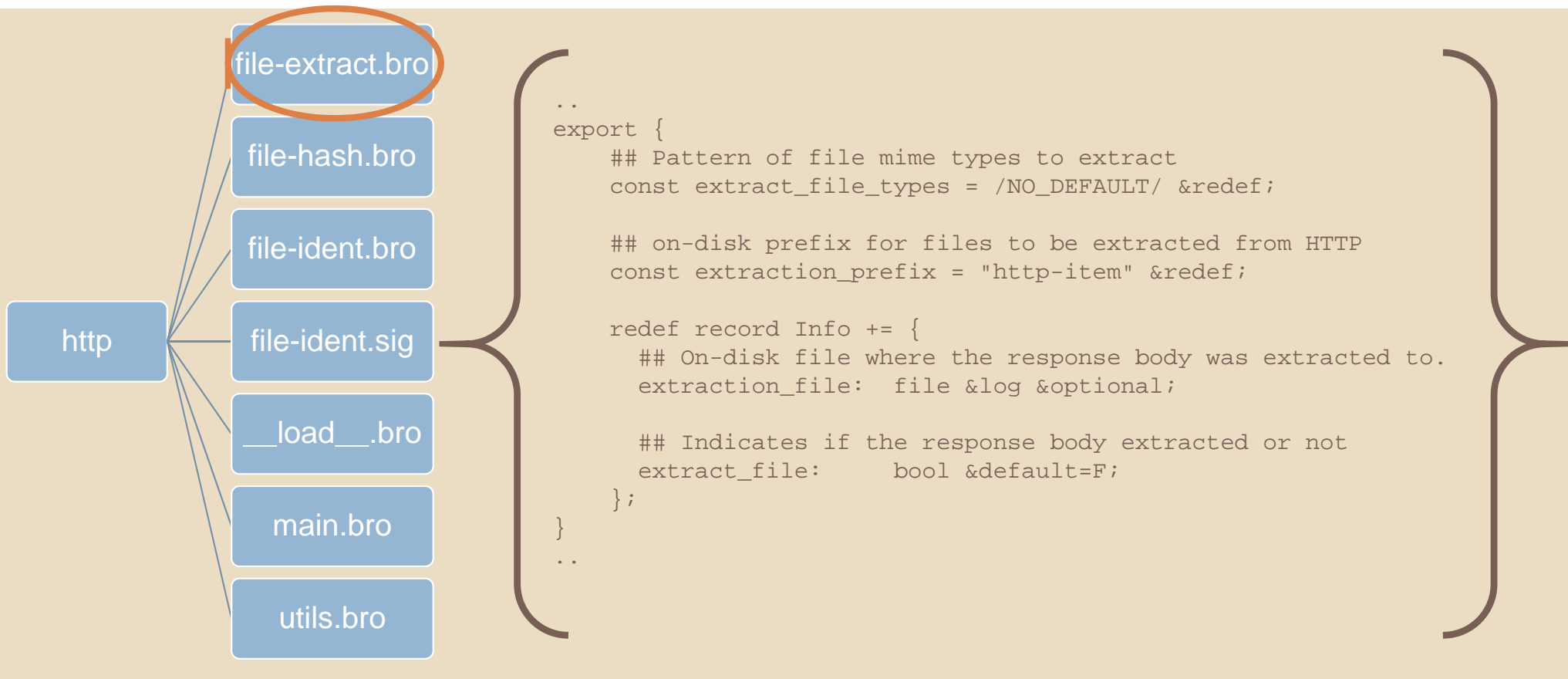


BASE/PROTOCOLS/HTTP



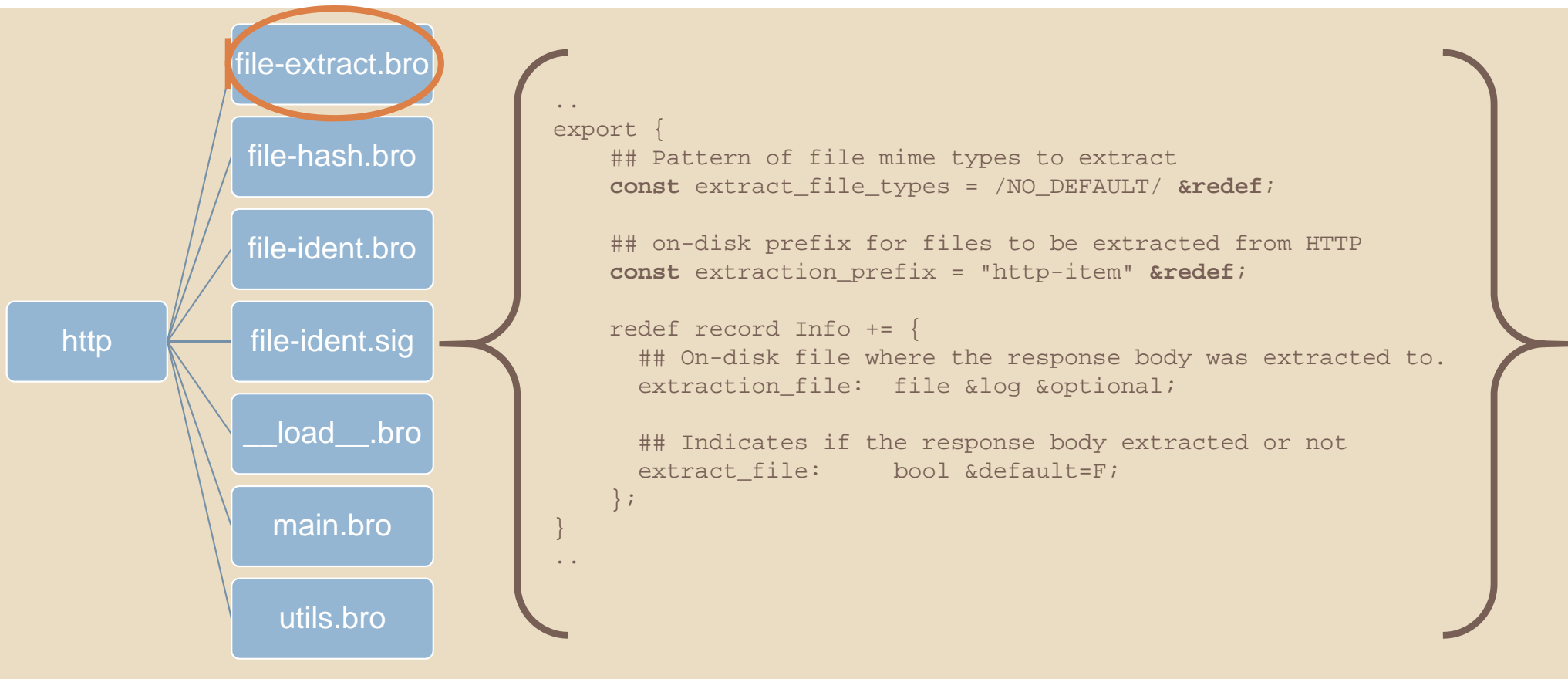


FILE EXTRACTION



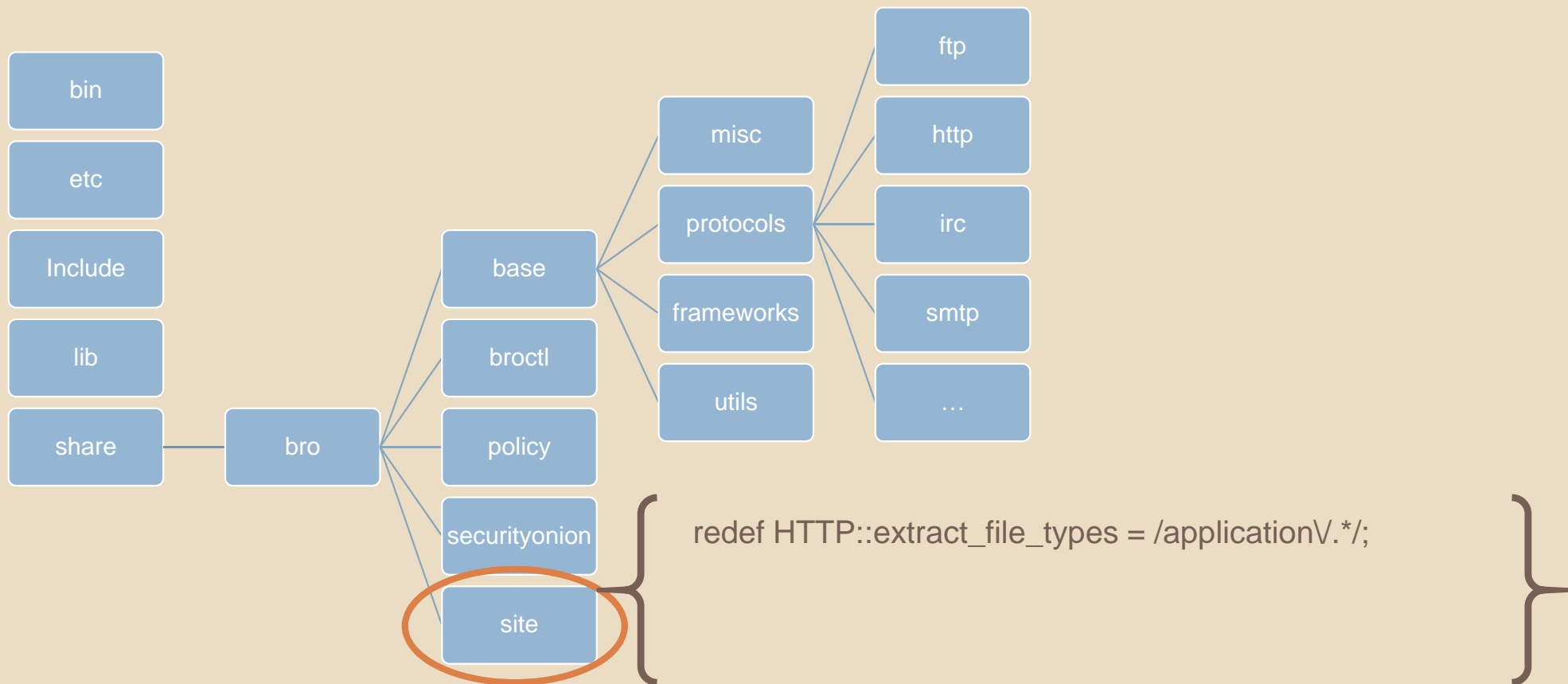


CONST & REDEF



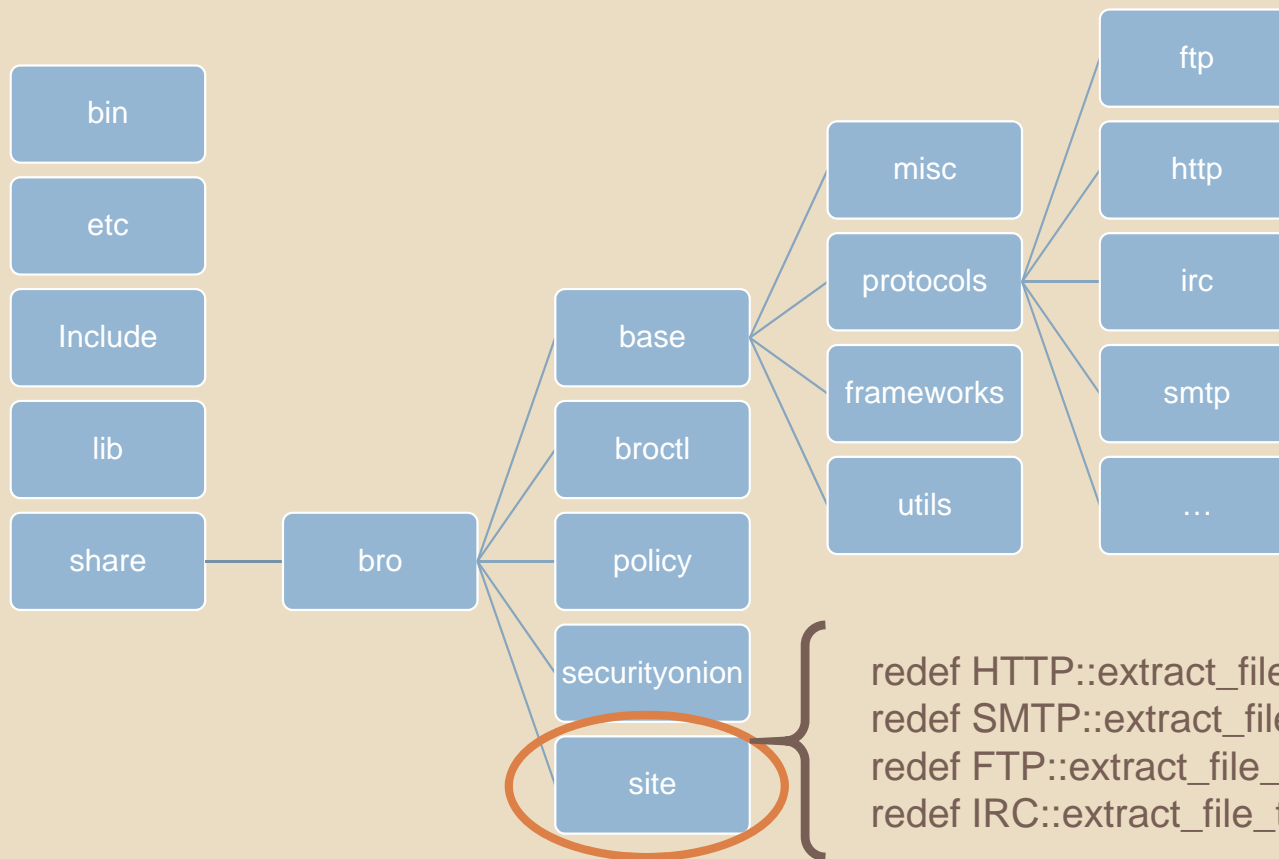


HTTP MIME TYPES





OTHER MIME TYPES



```
redef HTTP::extract_file_types = /applicationV.*;/  
redef SMTP::extract_file_types = /applicationV.*;/  
redef FTP::extract_file_types = /applicationV.*;/  
redef IRC::extract_file_types = /applicationV.*;/
```



TO DO

<http://www.freeformatter.com/mime-types-list.html>

- Pro's & Con's to various Mime Type Extractions
- What other types of things can be redefined?