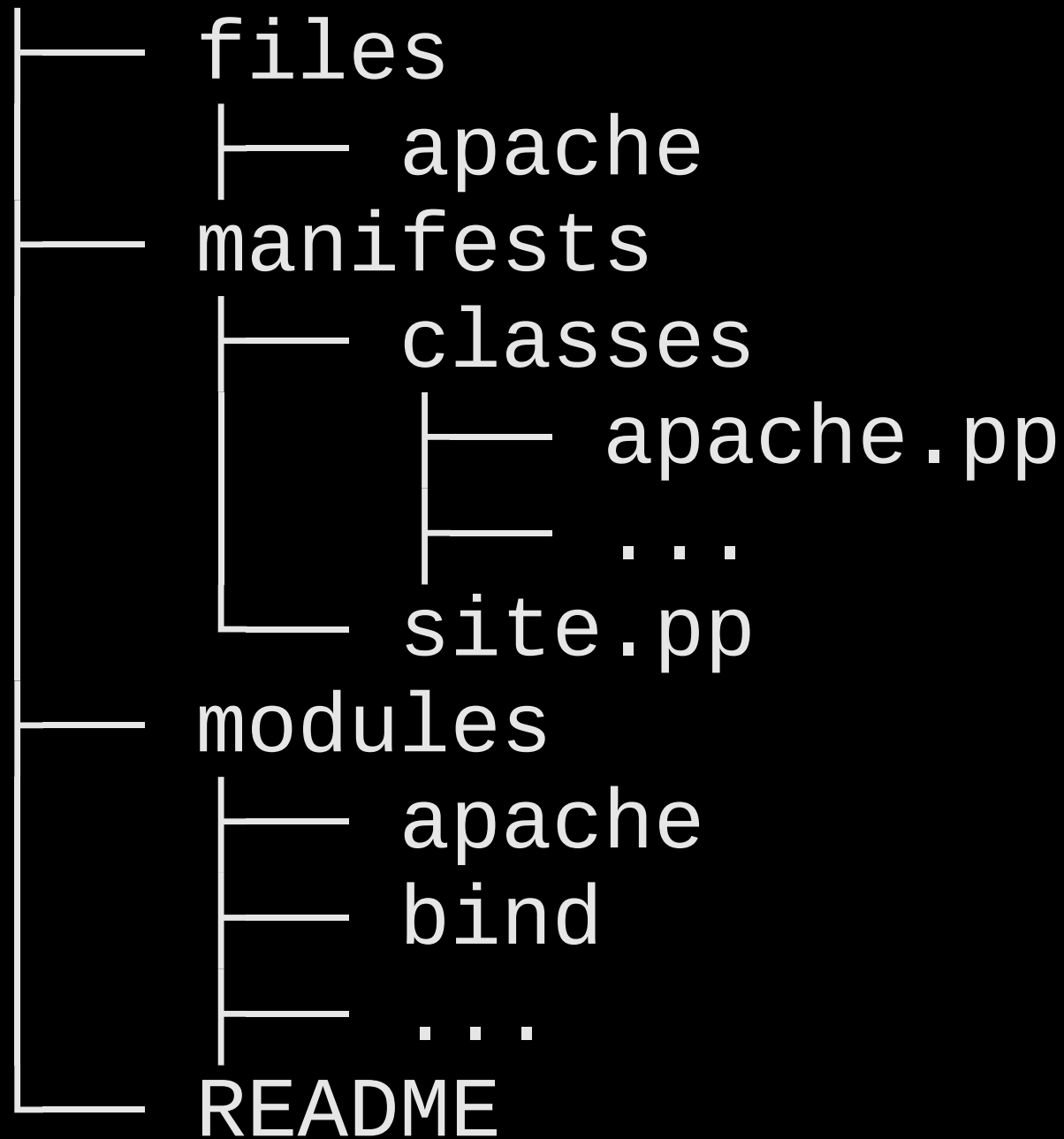


A Proper Approach
to
Module Organization

How we do it @ Puzzle

The old approach



Keep everything in modules

Distinguish between public and
site modules

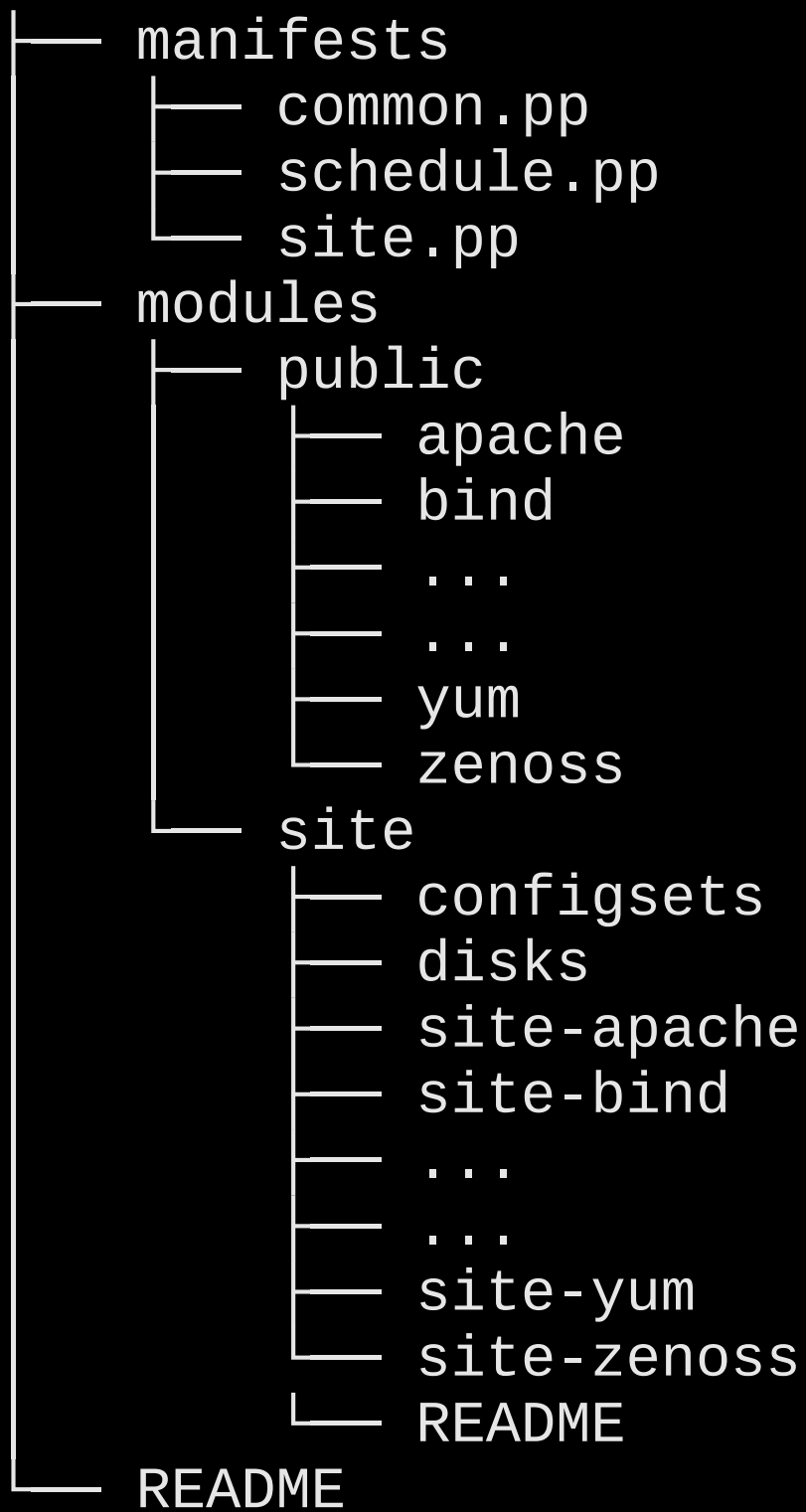
Keep public modules abstract
(like a library with an API)

Public modules contain no site-specific information and can be shared

Use a site module to
parameterize the corresponding
public module (use the API)

Keeping modules abstract while
preserving flexibility and
maintainability

Examples




```
class site-iscsi {
  include site-iscsi

  # 8.2 iSCSI settings for iSCSI root
  # When accessing the root partition directly through a iSCSI disk, the
  # iSCSI timers should be set so that iSCSI layer has several chances to try to
  # re-establish a session and so that commands are not quickly requeued to
  # the SCSI layer. Basically you want the opposite of when using dm-multipath.

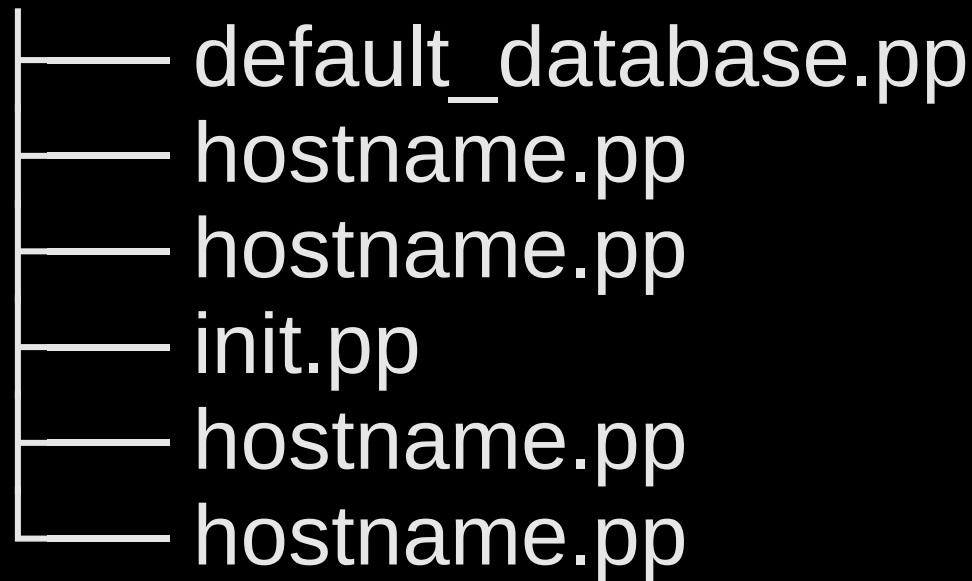
  # For this setup, you can turn off iSCSI pings by setting:
  # node.conn[0].timeo.noop_out_interval = 0
  # node.conn[0].timeo.noop_out_timeout = 0

  # And you can turn the replacement_timer to a very long value:
  # node.session.timeo.replacement_timeout = 86400

  Iscsi::Connection{
    iscsi_target_ip => '172.17.0.1',
    iscsi_target_name => 'iqn.2002-03.de.transtec:00.00a0d1e1783e',
    iscsi_noop_out_interval => 0,
    iscsi_noop_out_timeout => 0,
    iscsi_replacement_timeout => 86400,
  }
}
```

```
$ cat batris.pp
class site-iscsi::hostname {
    Include site-iscsi
    iscsi::connection{'hostname':
        iscsi_initiator_name => 'iqn.2008-07.ch.puzzle.rz-initiator-
hostname',
        iscsi_target_pwd => 'xxxxxxxxxx',
        iscsi_initiator_pwd => 'xxxxxxxxxxxx',
    }
}
```

site-mysql/




```
$ cat init.pp
class site-mysql {
  include mysql

  # sys user
  mysql_user{'sys@10.2.111.%':
    password_hash => "*DEE6524C5557C65602548",
  }
  mysql_grant{'sys@10.2.111.%':
    privileges => 'all',
    require => Mysql_user['sys@10.2.111.%'],
  }
}
```

```
class site-mysql::sitak {
  $mysql_rootpw = 'xxxxxxxxxxxxxxxxxxxxxxxxxi'
  include site-mysql

  site-mysql::default_database{
    # base
    'xxx_xxx_prod':
      username => 'xxx_xxx',
      password => '*556C667468D01236';

    # openfire
    'yyy_yyy_prod':
      username => 'yyy_yyy',
      password => '*FD1BF380BBF757';
  }
}
```