

Appendix A: bastion.sysiphus.com Configuration

```
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// named.conf file for bastion.sysiphus.com
// This machine only contains a minimal amount of DNS info
// for external consumption.

options {
    directory "/etc/namedb";
    version "like nothing you have ever seen";
    allow-transfer { 207.90.181.1; 207.90.181.2; };
    allow-recursion { 172.16/16; 207.90.187/24; };
};

zone "sysiphus.com" {
    type master;
    file "sysiphus.hosts";
};

zone "187.90.207.in-addr.arpa" {
    type master;
    file "sysiphus.rev";
};

// named.ca file available from
// ftp://ftp.rs.internic.net/domain/named.ca

zone "." {
    type hint;
    file "named.ca";
};
```

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; sysiphus.hosts file for bastion.sysiphus.com.

; Only contains what the outside world needs to know.

```
@      IN SOA bastion.sysiphus.com. hostmaster.sysiphus.com. (  
        1998042200      ; Serial - year/month/date/revision  
        86400           ; Refresh from server - daily  
        300             ; Retry after failure - 5 minutes  
        604800          ; Expire data - 7 days  
        86400 )         ; Time to live - 1 day
```

```
@      IN      NS      bastion.sysiphus.com.  
      IN      NS      ns.lamb.net.  
      IN      NS      ns2.alameda.net.
```

; All mail for sysiphus.com and *.sysiphus.com comes here.

;

```
      IN      MX 10  bastion.sysiphus.com.  
*     IN      MX 10  bastion.sysiphus.com.
```

```
bastion  IN      A      207.90.187.10  
ns       IN      CNAME   bastion  
mail     IN      CNAME   bastion  
  
server   IN      A      207.90.187.100  
www      IN      CNAME   server  
ftp      IN      CNAME   server
```

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; sysiphus.rev file for bastion.sysiphus.com

; Contains limited information for external consumption.

```
@      IN SOA bastion.sysiphus.com. hostmaster.sysiphus.com. (  
1996101600      ; Serial - year/month/date/revision  
86400           ; Refresh from server - daily  
300             ; Retry after failure - 5 minutes  
604800          ; Expire data - 7 days  
86400 )         ; Time to live - 1 day
```

```
@              IN      NS      bastion.sysiphus.com.  
              IN      NS      ns.lamb.net.  
              IN      NS      ns2.alameda.net.
```

```
100           IN      PTR      server.sysiphus.com.  
10            IN      PTR      bastion.sysiphus.com.
```

```

# Copyright (C) Deer Run Associates, 1998-2001. All rights reserved.

# m4 declarations for bastion.sysiphus.com
# Make sure this file is in a subdirectory of Sendmail src/cf
# before feeding to m4.

include(`../m4/cf.m4')
OSTYPE(`solaris2')

define(`confMAX_HOP',`25')
define(`confSMTP_LOGIN_MSG',`$j mailer ready at $b')

# No local delivery, especially to pipes!
# Don't allow EXPN and VRFY
#
define(`LOCAL_SHELL_PATH',`/dev/null')
define(`confPRIVACY_FLAGS',`noexpn,novrfy')
define(`confMIME_FORMAT_ERRORS',`False')

# Enable access database but delay all anti-spam checks until
# after recipient address is received.
#
FEATURE(delay_checks)
FEATURE(`access_db',`hash -o /etc/mail/access')

# Subscribe to several DNS-based blacklists maintained by
# ORBS (http://www.orbs.org/) and MAPS (http://maps.vix.com/).
#
# <<<IMPORTANT>>> The following lines should be entered into
# the m4 macro file as a single long line, rather than as
# two lines as presented here for readability!!!
#
FEATURE(dnsbl,`inputs.orbs.org',
`Rejected - see http://www.orbs.org/blocked.html')
FEATURE(dnsbl,`outputs.orbs.org',
`Rejected - see http://www.orbs.org/blocked.html')
FEATURE(dnsbl,`spamsource-netblocks.orbs.org',
`Rejected- see http://www.orbs.org/blocked.html')
FEATURE(dnsbl,`spamsources.orbs.org',
`Rejected - see http://www.orbs.org/blocked.html')

FEATURE(dnsbl,`relays.mail-abuse.org',
`Rejected- see http://www.mail-abuse.org/rss/')
FEATURE(dnsbl,`blackholes.mail-abuse.org',
`Rejected- see http://www.mail-abuse.org/rbl/')
FEATURE(dnsbl,`dialups.mail-abuse.org',
`Rejected - see http://www.mail-abuse.org/dul/')

# local-host-names file contains:
#
# bastion.sysiphus.com
#
# relay-domains file contains:
#
# sysiphus.com
# corp.sysiphus.com
# eng.sysiphus.com
# {sfo,bos,dfw}.eng.sysiphus.com (3 lines)
# 172.16
#
FEATURE(use_cw_file)

```

```
# All mail for this machine goes to mailgate.  
# Deliver all other mail (incoming and outgoing) normally  
#  
define(`MAIL_HUB', `mailgate.sysiphus.com')  
  
MASQUERADE_AS(sysiphus.com)  
MAILER(smtp)
```

Appendix B: mailgate.sysiphus.com Configuration

// Copyright (C) Deer Run Associates, 1998-2001. All rights reserved.

// *** PLEASE NOTE: This file continues on the next page! ***

// named.conf file for mailgate.cisco.com
// This machine is the internal primary DNS server and mail relay.
// The machine is also a secondary for internal subdomains and in-addr
// zones.

// We rely on bsation.sysiphus.com to resolve external names for us
// because we're unable to reach the Internet directly.

```
//  
options {  
    directory "/etc/namedb";  
    query-source address * port 53;  
    forwarders {  
        207.90.187.10;  
        207.90.187.10;  
    };  
    forward only;  
};
```

```
zone "." {  
    type hint;  
    file "named.ca";  
};
```

// Zones we're the master for.

```
//  
zone "sysiphus.com" {  
    type master;  
    file "sysiphus.hosts";  
};
```

```
zone "16.172.in-addr.arpa" {  
    type master;  
    file "sysiphus.rev";  
};
```

// Zones we get from somebody else

```
//  
zone "corp.sysiphus.com" {  
    type slave;  
    file "corp-hosts.zone";  
    masters { 172.16.16.10; };  
};
```

```
zone "eng.sysiphus.com" {  
    type slave;  
    file "eng-hosts.zone";  
    masters { 172.16.128.10; };  
};
```

```
// in-addr.arpa domains we've delegated away but are still
// secondarying for.
//
zone "16.16.172.in-addr.arpa" {
    type slave;
    file "corp-rev.zone";
    masters { 172.16.16.10; };
};

zone "128.16.172.in-addr.arpa" {
    type slave;
    file "sfo-eng-rev.zone";
    masters { 172.16.128.10; };
};

zone "160.16.172.in-addr.arpa" {
    type slave;
    file "bos-eng-rev.zone";
    masters { 172.16.160.10; };
};

zone "192.16.172.in-addr.arpa" {
    type slave;
    file "dfw-eng-rev.zone";
    masters { 172.16.192.10; };
};
```

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; sysiphus.hosts file for mailgate.sysiphus.com
; Root of the internal version of sysiphus.com.

```
@      IN SOA mailgate.sysiphus.com. hostmaster.sysiphus.com. (  
      1998042200      ; Serial - year/month/date/revision  
      86400           ; Refresh from server - daily  
      300             ; Retry after failure - 5 minutes  
      604800          ; Expire data - 7 days  
      86400 )         ; Time to live - 1 day
```

```
@      IN      NS      mailgate.sysiphus.com.  
      IN      NS      mailhub.corp.sysiphus.com.  
      IN      NS      mailhub.sfo.eng.sysiphus.com.  
      IN      NS      mailhub.bos.eng.sysiphus.com.  
      IN      NS      mailhub.dfw.eng.sysiphus.com.
```

```
      IN      MX 10   mailgate.sysiphus.com.
```

```
mailgate      IN      A      172.16.1.10  
mailhub.corp  IN      A      172.16.16.10  
mailhub.sfo.eng  IN    A      172.16.128.10  
mailhub.bos.eng  IN    A      172.16.160.10  
mailhub.dfw.eng  IN    A      172.16.192.10
```

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; sysiphus.rev file for mailgate.sysiphus.com

; Root of the 16.172.in-addr.arpa domain (i.e. network 172.16.0.0).

```
@      IN SOA mailgate.sysiphus.com. hostmaster.sysiphus.com. (
      1998042200      ; Serial - year/month/date/revision
      86400           ; Refresh from server - daily
      300             ; Retry after failure - 5 minutes
      604800          ; Expire data - 7 days
      86400 )         ; Time to live - 1 day
```

```
@      IN      NS      mailgate.sysiphus.com.
      IN      NS      mailhub.corp.sysiphus.com.
      IN      NS      mailhub.sfo.eng.sysiphus.com.
      IN      NS      mailhub.bos.eng.sysiphus.com.
      IN      NS      mailhub.dfw.eng.sysiphus.com.
```

; Delegate 172.16.16.0 to the corp folks

;

```
16     IN      NS      mailhub.corp.sysiphus.com.
      IN      NS      mailgate.sysiphus.com.
```

; Delegate networks for Engineernig

;

```
128    IN      NS      mailhub.sfo.eng.sysiphus.com.
      IN      NS      mailgate.sysiphus.com.
```

```
160    IN      NS      mailhub.bos.eng.sysiphus.com.
      IN      NS      mailhub.sfo.eng.sysiphus.com.
      IN      NS      mailgate.sysiphus.com.
```

```
192    IN      NS      mailhub.dfw.eng.sysiphus.com.
      IN      NS      mailhub.sfo.eng.sysiphus.com.
      IN      NS      mailgate.sysiphus.com.
```

; Oh look! An actual PTR record!

;

```
10.1   IN      PTR     mailgate.sysiphus.com.
```

```
# Copyright (C) Deer Run Associates, 1998-2001. All rights reserved.

# m4 declarations for mailgate.sysiphus.com
# Make sure this file is in a subdirectory of Sendmail src/cf
# before feeding to m4.

include(`../m4/cf.m4')
OSTYPE(`solaris2')

define(`confMAX_HOP',`25')

define(`confSMTP_LOGIN_MSG',`$j mailer ready at $b')
define(`confMIME_FORMAT_ERRORS',`False')

# local-host-names contains "sysiphus.com" (w/o quotes) plus any
# virtual domains in virtusertable database
#
FEATURE(use_cw_file)

FEATURE(promiscuous_relay)
FEATURE(accept_unqualified_senders)

# mailertable file should contain
#
#   corp.sysiphus.com   smtp:mailhub.corp.sysiphus.com
#   eng.sysiphus.com    smtp:eng.sysiphus.com
#   sysiphus.com        local:
#   .                    smtp:bastion.sysiphus.com
#
FEATURE(`mailertable',`dbm -o /etc/mail/mailertable')
FEATURE(`virtusertable',`dbm -o /etc/mail/virtusertable')

MASQUERADE_AS(sysiphus.com)
MAILER(smtp)
```

Appendix C: mailhub.corp.sysiphus.com Configuration

```
// Copyright (C) Deer Run Associates, 1998-2001. All rights reserved.

// named.conf for mailhub.corp.sysiphus.com
// Master nameserver for corp.sysiphus.com and 16.16.172.in-addr.arpa
// Also a secondary for sysiphus.com and toplevel in-addr.arpa zone

// Can't get to the Internet from here so forward queries through
// mailgate (mailgate actually ends up talking to bastion)
//
options {
    directory "/etc/namedb";
    forwarders {
        172.16.1.10;
        172.16.1.10;
    };
    forward only;
};

zone "." {
    type hint;
    file "named.ca";
};

// We're the master for these zones.
zone "corp.sysiphus.com" {
    type master;
    file "corp.hosts";
};

zone "16.16.172.in-addr.arpa" {
    type master;
    file "corp.rev";
};

// Get these zones from mailgate.sysiphus.com
zone "sysiphus.com" {
    type slave;
    file "sysiphus.zone";
    masters { 172.16.1.10; };
};

zone "16.172.in-addr.arpa" {
    type slave;
    file "sysiphus-rev.zone";
    masters { 172.16.1.10; };
};
```

; Copyright (C) Deer Run Associates, 1998-2001. All rights reserved.

; corp.hosts file for mailhub.corp.sysiphus.com

; Contains authoritative information for corp.sysiphus.com zone.

```
@ IN SOA mailhub.corp.sysiphus.com. hostmaster.corp.sysiphus.com. (
    1998042200 ; Serial - year/month/date/revision
    86400      ; Refresh from server - daily
    300       ; Retry after failure - 5 minutes
    604800    ; Expire data - 7 days
    86400 )   ; Time to live - 1 day
```

```
@ IN NS mailhub.corp.sysiphus.com.
  IN NS mailgate.sysiphus.com.
  IN MX 10 mailhub.corp.sysiphus.com.
```

```
mailhub IN A 172.16.16.10
```

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; corp.rev file for mailhub.corp.sysiphus.com

; Contains authoritative info for 172.16.16.0 network

```
@ IN SOA mailhub.corp.sysiphus.com. hostmaster.corp.sysiphus.com. (
    1998042200 ; Serial - year/month/date/revision
    86400      ; Refresh from server - daily
    300       ; Retry after failure - 5 minutes
    604800    ; Expire data - 7 days
    86400 )   ; Time to live - 1 day
```

```
@ IN NS mailhub.corp.sysiphus.com.
  IN NS mailgate.sysiphus.com.
```

```
10 IN PTR mailhub.corp.sysiphus.com.
```

```
# Copyright (C) Deer Run Associates, 1998-2001. All rights reserved.

# m4 configuration file for mailhub.corp.sysiphus.com
# Make sure this file is in a subdirectory of Sendmail src/cf
# before feeding to m4.

include(`../m4/cf.m4')
OSTYPE(`solaris2')

define(`confMAX_HOP',`25')

define(`confSMTP_LOGIN_MSG',`$j mailer ready at $b')
define(`confMIME_FORMAT_ERRORS',`False')

# local-host-names contains "corp.sysiphus.com" (w/o quotes)
#
FEATURE(use_cw_file)

FEATURE(promiscuous_relay)
FEATURE(accept_unqualified_senders)

# Can't reach the Internet. Bounce non-local mail to mailgate.
#
define(`SMART_HOST',`mailgate.sysiphus.com')

MASQUERADE_AS(corp.sysiphus.com)
MAILER(smtp)
```

Appendix D: mailhub.sfo.eng.sysiphus.com Configuration

```
// Copyright (C) Deer Run Associates, 1998-2001. All rights reserved.
// *** PLEASE NOTE: This file continues on the next page! ***
// named.conf file for mailhub.sfo.eng.sysiphus.com
// Master nameserver for eng.sysiphus.com and sfo.eng (plus net 128).
// Secondary for many domains.

// Can't get to the Internet from here so forward queries through
// mailgate (mailgate actually ends up talking to bastion)
//
options {
    directory "/etc/namedb";
    forwarders { 172.16.1.10; 172.16.1.10; };
    forward only;
};

zone "." {
    type hint;
    file "named.ca";
};

// We're the master for these zones.
zone "eng.sysiphus.com" {
    type master;
    file "eng.hosts";
};

zone "sfo.eng.sysiphus.com" {
    type master;
    file "sfo-eng.hosts";
};

zone "128.16.172.in-addr.arpa" {
    type master;
    file "sfo-eng.rev";
};

// Get these zones from mailgate.sysiphus.com
zone "sysiphus.com" {
    type slave;
    file "sysiphus.zone";
    masters { 172.16.1.10; };
};

zone "16.172.in-addr.arpa" {
    type slave;
    file "sysiphus-rev.zone";
    masters { 172.16.1.10; };
};

// Get these from other Engineering Zones
zone "bos.eng.sysiphus.com" {
    type slave;
    file "bos-eng.zone";
    masters { 172.16.160.10; };
};
```

```
zone "160.16.172.in-addr.arpa" {
    type slave;
    file "bos-eng-rev.zone";
    masters { 172.16.160.10; };
};

zone "dfw.eng.sysiphus.com" {
    type slave;
    file "dfw-eng.zone";
    masters { 172.16.192.10; };
};

zone "192.16.172.in-addr.arpa" {
    type slave;
    file "dfw-eng-rev.zone";
    masters { 172.16.192.10; };
};
```

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; eng.hosts file for mailhub.sfo.eng.sysiphus.com
; Authoritative info for eng.sysiphus.com

```
@ IN SOA mailhub.sfo.eng.sysiphus.com. hostmaster.eng.sysiphus.com. (  
    1998042200      ; Serial - year/month/date/revision  
    86400           ; Refresh from server - daily  
    300             ; Retry after failure - 5 minutes  
    604800          ; Expire data - 7 days  
    86400 )         ; Time to live - 1 day
```

```
@      IN      NS      mailhub.sfo.eng.sysiphus.com.  
      IN      NS      mailhub.bos.eng.sysiphus.com.  
      IN      NS      mailhub.dfw.eng.sysiphus.com.  
      IN      NS      mailgate.sysiphus.com.
```

; All mail servers are equivalent

```
;  
      IN      MX 10    mailhub.sfo.eng.sysiphus.com.  
      IN      MX 10    mailhub.bos.eng.sysiphus.com.  
      IN      MX 10    mailhub.dfw.eng.sysiphus.com.
```

; Delegate subdomains

```
;  
sfo      IN      NS      mailhub.sfo.eng.sysiphus.com.  
      IN      NS      mailhub.bos.eng.sysiphus.com.  
      IN      NS      mailhub.dfw.eng.sysiphus.com.  
  
bos      IN      NS      mailhub.sfo.eng.sysiphus.com.  
      IN      NS      mailhub.bos.eng.sysiphus.com.  
      IN      NS      mailhub.dfw.eng.sysiphus.com.  
  
dfw      IN      NS      mailhub.sfo.eng.sysiphus.com.  
      IN      NS      mailhub.bos.eng.sysiphus.com.  
      IN      NS      mailhub.dfw.eng.sysiphus.com.
```

; And some glue...

```
;  
mailhub.sfo  IN  A      172.16.128.10  
mailhub.bos  IN  A      172.16.160.10  
mailhub.dfw  IN  A      172.16.192.10
```

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; sfo-eng.hosts file for mailhub.sfo.eng.sysiphus.com

; Authoritative info for sfo.eng.sysiphus.com

```
@ IN SOA mailhub.sfo.eng.sysiphus.com. hostmaster.eng.sysiphus.com. (
    1998042200      ; Serial - year/month/date/revision
    86400           ; Refresh from server - daily
    300            ; Retry after failure - 5 minutes
    604800         ; Expire data - 7 days
    86400 )        ; Time to live - 1 day
```

```
@      IN      NS      mailhub.sfo.eng.sysiphus.com.
      IN      NS      mailhub.bos.eng.sysiphus.com.
      IN      NS      mailhub.dfw.eng.sysiphus.com.
```

```
      IN      MX 10   mailhub.sfo.eng.sysiphus.com.
```

```
mailhub IN      A      172.16.128.10
```

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; sfo-eng.rev for mailhub.sfo.eng.sysiphus.com
; Authoritative info for 172.16.128.0 network

@ IN SOA mailhub.sfo.eng.sysiphus.com. hostmaster.eng.sysiphus.com. (
1998042200 ; Serial - year/month/date/revision
86400 ; Refresh from server - daily
300 ; Retry after failure - 5 minutes
604800 ; Expire data - 7 days
86400) ; Time to live - 1 day

@ IN NS mailhub.sfo.eng.sysiphus.com.
IN NS mailgate.sysiphus.com.

10 IN PTR mailhub.sfo.eng.sysiphus.com.

```
# Copyright (C) Deer Run Associates, 1998-2001. All rights reserved.

# m4 configuration file for mailhub.eng.sfo.sysiphus.com
# Make sure this file is in a subdirectory of Sendmail src/cf
# before feeding to m4.

include(`../m4/cf.m4')
OSTYPE(`solaris2')

define(`confMAX_HOP',`25')

define(`confSMTP_LOGIN_MSG',`$j mailer ready at $b')
define(`confMIME_FORMAT_ERRORS',`False')

# local-host-names contains:
#
#     eng.sysiphus.com
#     sfo.eng.sysiphus.com
#
FEATURE(use_cw_file)

FEATURE(promiscuous_relay)
FEATURE(accept_unqualified_senders)

# Make sure this is one long line in the actual file you
# hand to m4!
#
define(`ALIAS_FILE',`/etc/mail/aliases,/etc/mail/aliases-bos, \
    /etc/mail/aliases-dfw,/etc/mail/aliases-majordomo')

# Can't reach the Internet. Bounce non-local mail to mailgate.
#
define(`SMART_HOST',`mailgate.sysiphus.com')

MASQUERADE_AS(eng.sysiphus.com)
MAILER(smtp)
```

Appendix E: mailhub.bos.eng.sysiphus.com Configuration

```
// Copyright (C) Deer Run Associates, 1998-2001. All rights reserved.

// named.conf file for mailhub.bos.eng.sysiphus.com
// Master nameserver for bos.eng.sysiphus.com and net 160

// Can't get to the Internet from here so forward queries through
// via mailhub.sfo --> mailgate --> bastion
//
options {
    directory "/etc/namedb";
    forwarders { 172.16.128.10; 172.16.128.10; };
    forward only;
};

zone "." {
    type hint;
    file "named.ca";
};

// Master for these zones
zone "bos.eng.sysiphus.com" {
    type master;
    file "bos-eng.hosts";
};

zone "160.16.172.in-addr.arpa" {
    type master;
    file "bos-eng.rev";
};

// Slave for these
zone "eng.sysiphus.com" {
    type slave;
    file "eng.zone";
    masters { 172.16.128.10; };
};

zone "sfo.eng.sysiphus.com" {
    type slave;
    file "sfo-eng.zone";
    masters { 172.16.128.10; };
};

zone "dfw.sysiphus.com" {
    type slave;
    file "dfw-eng.zone";
    masters { 172.16.192.10; };
};
```

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; bos-eng.hosts file for mailhub.bos.eng.sysiphus.com
; Authoritative info for bos.eng.sysiphus.com

@ IN SOA mailhub.bos.eng.sysiphus.com. hostmaster.eng.sysiphus.com. (
1998042200 ; Serial - year/month/date/revision
86400 ; Refresh from server - daily
300 ; Retry after failure - 5 minutes
604800 ; Expire data - 7 days
86400) ; Time to live - 1 day

@ IN NS mailhub.sfo.eng.sysiphus.com.
IN NS mailhub.bos.eng.sysiphus.com.
IN NS mailhub.dfw.eng.sysiphus.com.

IN MX 10 mailhub.bos.eng.sysiphus.com.

mailhub IN A 172.16.160.10

; Copyright (C) Deer Run Associates, 1998-2001. All rights reserved.

; bos-eng.rev for mailhub.bos.eng.sysiphus.com
; Authoritative info for 172.16.160.0 network

@ IN SOA mailhub.bos.eng.sysiphus.com. hostmaster.eng.sysiphus.com. (
1998042200 ; Serial - year/month/date/revision
86400 ; Refresh from server - daily
300 ; Retry after failure - 5 minutes
604800 ; Expire data - 7 days
86400) ; Time to live - 1 day

@ IN NS mailhub.bos.eng.sysiphus.com.
IN NS mailgate.sysiphus.com.

10 IN PTR mailhub.bos.eng.sysiphus.com.

```
# Copyright (C) Deer Run Associates, 1998-2001. All rights reserved.

# m4 configuration file for mailhub.eng.bos.sysiphus.com
# Make sure this file is in a subdirectory of Sendmail src/cf
# before feeding to m4.

include(`../m4/cf.m4')
OSTYPE(`solaris2')

define(`confMAX_HOP',`25')

define(`confSMTP_LOGIN_MSG',`$j mailer ready at $b')
define(`confMIME_FORMAT_ERRORS',`False')

# local-host-names contains:
#
#     eng.sysiphus.com
#     bos.eng.sysiphus.com
#
FEATURE(use_cw_file)

FEATURE(promiscuous_relay)
FEATURE(accept_unqualified_senders)

# Make sure this is one long line in the actual file you
# hand to m4!
#
define(`ALIAS_FILE',`/etc/mail/aliases,/etc/mail/aliases-sfo, \
    /etc/mail/aliases-dfw,/etc/mail/aliases-listpointers')

# Can't reach the Internet. Bounce non-local mail to mailgate.
#
define(`SMART_HOST',`mailgate.sysiphus.com')

MASQUERADE_AS(eng.sysiphus.com)
MAILER(smtp)
```

Appendix F: mailhub.dfw.eng.sysiphus.com Configuration

```
// Copyright (C) Deer Run Associates, 1998-2001. All rights reserved.

// named.conf file for mailhub.dfw.eng.sysiphus.com
// Master nameserver for dfw.eng.sysiphus.com and net 192

// Can't get to the Internet from here so forward queries through
// via mailhub.sfo --> mailgate --> bastion
//
options {
    directory "/etc/namedb";
    forwarders { 172.16.128.10; 172.16.128.10; };
    forward only;
};

zone "." {
    type hint;
    file "named.ca";
};

// Master for these zones
zone "dfw.eng.sysiphus.com" {
    type master;
    file "dfw-eng.hosts";
};

zone "192.16.172.in-addr.arpa" {
    type master;
    file "dfw-eng.rev";
};

// Slave for these
zone "eng.sysiphus.com" {
    type slave;
    file "eng.zone";
    masters { 172.16.128.10; };
};

zone "sfo.eng.sysiphus.com" {
    type slave;
    file "sfo-eng.zone";
    masters { 172.16.128.10; };
};

zone "bos.sysiphus.com" {
    type slave;
    file "bos-eng.zone";
    masters { 172.16.160.10; };
};
```

; Copyright (C) Deer Run Associates, 1998-2001. All rights reserved.

; dfw-eng.hosts file for mailhub.dfw.eng.sysiphus.com

; Authoritative info for dfw.eng.sysiphus.com

```
@ IN SOA mailhub.dfw.eng.sysiphus.com. hostmaster.eng.sysiphus.com. (  
    1998042200      ; Serial - year/month/date/revision  
    86400           ; Refresh from server - daily  
    300            ; Retry after failure - 5 minutes  
    604800         ; Expire data - 7 days  
    86400 )        ; Time to live - 1 day
```

```
@      IN      NS      mailhub.sfo.eng.sysiphus.com.  
      IN      NS      mailhub.bos.eng.sysiphus.com.  
      IN      NS      mailhub.dfw.eng.sysiphus.com.
```

```
      IN      MX 10   mailhub.dfw.eng.sysiphus.com.
```

```
mailhub IN      A      172.16.192.10
```

; Copyright (C) Deer Run Associates, 1998-2001. All rights reserved.

; dfw-eng.rev for mailhub.dfw.eng.sysiphus.com

; Authoritative info for 172.16.192.0 network

```
@ IN SOA mailhub.dfw.eng.sysiphus.com. hostmaster.eng.sysiphus.com. (  
    1998042200      ; Serial - year/month/date/revision  
    86400          ; Refresh from server - daily  
    300            ; Retry after failure - 5 minutes  
    604800        ; Expire data - 7 days  
    86400 )       ; Time to live - 1 day
```

```
@      IN      NS      mailhub.dfw.eng.sysiphus.com.  
      IN      NS      mailgate.sysiphus.com.
```

```
10     IN      PTR     mailhub.dfw.eng.sysiphus.com.
```

```
# Copyright (C) Deer Run Associates, 1998-2001. All rights reserved.

# m4 configuration file for mailhub.eng.dfw.sysiphus.com
# Make sure this file is in a subdirectory of Sendmail src/cf
# before feeding to m4.

include(`../m4/cf.m4')
OSTYPE(`solaris2')

define(`confMAX_HOP',`25')

define(`confSMTP_LOGIN_MSG',`$j mailer ready at $b')
define(`confMIME_FORMAT_ERRORS',`False')

# local-host-names contains:
#
#   eng.sysiphus.com
#   dfw.eng.sysiphus.com
#
FEATURE(use_cw_file)

FEATURE(promiscuous_relay)
FEATURE(accept_unqualified_senders)

# Make sure this is one long line in the actual file you
# hand to m4!
#
define(`ALIAS_FILE',`/etc/mail/aliases,/etc/mail/aliases-sfo, \
    /etc/mail/aliases-bos,/etc/mail/aliases-listpointers')

# Can't reach the Internet. Bounce non-local mail to mailgate.
#
define(`SMART_HOST',`mailgate.sysiphus.com')

MASQUERADE_AS(eng.sysiphus.com)
MAILER(smtp)
```

Appendix G: Complete Source Code for Mail Responder

```
#!/usr/bin/perl

# /etc/mail/natabot -- Let people know folks have moved on
#
# Copyright (C) 1998 Hal Pomeranz, Deer Run Associates, hal@deer-run.com
# All rights reserved. Permission to distribute freely under the same
# terms as Perl as long as this copyright and all other comments are
# preserved

# How to use this script:
#
# Assuming user "smith" has changed jobs and is now "smith@other.org",
# just create an alias:
#
#     smith: "|/etc/mail/natabot smith@other.org"
#
# The new address argument is always optional.

$sendmail = '/usr/lib/sendmail';          # path to Sendmail binary

# Read the first line of the incoming message into @header. Get the
# return address from this first line. Quit silently if we can't
# parse the from line or if message is from MAILER-DAEMON (aka '<>').
# Quit noisily if we detect shell metacharacters in the address.
#
$header[0] = <STDIN>;
($from) = $header[0] =~ /^From\s+(\S+)/;
exit(0)
    if (!length($from) || $from eq '<>' || $from =~ /mailer-daemon/i);
die "Hostile address: $from\n" if ($from =~ /[\\|&|/]);

# Now read in the rest of the headers. Quit silently if we find a
# Precedence: header with value junk, list, or bulk. We've reached
# the end of the headers when we hit a blank line.
#
while (<STDIN>) {
    last if (/^$/);
    if (($prec) = /^Precedence:\s+(\S+)/) {
        exit(0) if ($prec =~ /^(junk|list|bulk)$/);
    }
    push(@header, $_);
}
}
```

```

# OK, time to start sending mail.  Again we try to avoid people messing
# with shell metachars in the $from address by opening a pipe to
# Sendmail the hard way (which doesn't invoke the shell).
#
# Note that we're sending our bounce message from MAILER-DAEMON.
# Theoretically this should mean that any autoresponders that get
# our message will not generate a message of their own.
#
$pid = open(MAIL, "|-");
die "fork() failed: $!\n" unless (defined($pid));
unless ($pid) {          # The child executes this block.
    exec($sendmail, '-f', '<>', $from);
    die "exec() failed: $!\n";
}

# If we get here, we're the parent process.
#
# Print some opening headers (including our own Precedence: header) and
# initial chat into the message.
#
print MAIL <<"EOMesg";
From: MAILER-DAEMON
To: $from
Precedence: junk
Subject: FYI -- Invalid Address

You have sent mail to an address which is no longer valid.
EOMesg

# If we have a new address argument, print that.  Then push the headers
# and the rest of the incoming message into the message we're sending
# back.
#
print MAIL "The individual's new address is: $ARGV[0]\n" if
(length($ARGV[0]));
print MAIL "\nYour message is returned below for your convenience.\n\n";
print MAIL @header;
print MAIL "\n";
while (<STDIN>) { print MAIL; }

# Close the pipe to the Sendmail program and exit quietly
#
close(MAIL);
exit(0);

```