NAME

Zebedee −−− Â¥Â·Â¥Ã³Â¥ÃÂ¥Ã«Â¤ÃÂ¥ÃÂ¥ÃªÂ¡Â¼Â¤ÃÂ¥Â»Â¥Â-Â¥ÃÂ¥Â¢Â¤ÃÂ¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â¥ÃÂ¥ÃÂ¥Â°Â¥Ã©Â¥Ã

Â½Ã±Â¼Â°

Server:

zebedee −s [**−dDtu**] [**−c** *host*] [**−f** *file*] [**−k** *keybits*] [**−n** *name*] [**−o** *logfile*] [**−r** *ports*] [**−T** *port*] [**−v** *level*] [**−x** *config*] [**−z** *level*] [*target ...*]

Client:

zebedee [**−dDlmtu**] [**−e** *command*] [**−f** *file*] [**−k** *keybits*] [**−n** *name*] [**−o** *log*] [**−T** *port*] [**−v** *level*] [**−x** *config*] [**−z** *level*] [server] [*tunnel-spec ...*]

Key generation:

zebedee −p [**−f** *file*]

zebedee −P [**−p**] [**−f** *file*]

Hash generation:

zebedee −h [*file ...*]

zebedee −H *string ...*

Windows Service:

zebedee [**−n** *name*] **−S** [install[=*file*] | remove | run]

DESCRIPTION

ZebedeeÂ¤Ã2Â¤ÃÂ¤ÃÂ¥Â·Â¥Â¹Â¥ÃÂ¥Ã Â´ÃÂ¤ÃÂ¡Â¢Â°ÃÂ¹Ã¦Â²Â½Â¤ÂµÂ¤Ã¬Â¡Â¢Â°ÂµÂ½ÃÂ¤ÂµÂ¤Ã¬Â¤Â¿TCP/IPÂ¤ÃÂ¤Â¿Â¤ÃUDPÂ¤Ã“Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«”Â¤Ã²Â³ÃÃÂ©Â¤Â¹Â¤Ã«ÃÂ±Â½Ã£Â¤ÃÂ¥ÃÂ¥Ã-Â¥ÃÂ°Â¥Ã©Â¥Ã Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£Â¤Ã³Â¤Ã¬Â¤ÃÂ¡Â¢ÃÃ£ÃÃÂ°Ã¨Â¤ÃÂ¥ÃÂ¥ÃÂ¥ÃÂ¥Ã¯Â¡Â¼Â¥Â¯Â¾Ã¥Â¤ÃÂ¤ÃÂ¥ÃÂ¥ÃÂ¥Â©Â¡Â¼Â¥ÃÂ¥Ã³Â¥Â¹Â¤Ã²Â°ÂµÂ½ÃÂ¤ÃÂ¤ÃÂ¨Â¤ÃªÂ¸Ã¾Â¾Ã¥Â¤Â¹Â¤Ã«Â¤ÃÂ¤ÃÂ±Â¤ÃÂ¤ÃÂ¤ÃÂ¯Â¡Â¢ **telnet**, **ftp** Â¤Ã¤ **X** Â¤ÃÂ¤ÃÃÂ¤Ã TCP Â¥ÃÂ¡Â¼Â¥Â¹Â¤Ã Â¥ÃÂ¥Ã©Â¥ÃÂ¥Â£Â¥ÃÂ¥Â¯Â¤Ã²ÃÃ°ÃÂ°Â¤Â«Â¤Ã©ÃÃÂ¸Ã¦Â¤Â¹Â¤Ã«Â¤Ã³Â¤ÃÃÂ¤Ã¢Â²ÃÃÂ½Â¤ÃÃÂ¹Â¤Ã«Â¡Â£Â¤ÃÂ¤Â¿Â¡Â¢Â°ÃÂ¹Ã¦Â²Â½Â¤ÃÃÂ-ÃÂµÂ¤ÃÂ¤Â«Â¤Â«Â¤Ã¯Â¤Ã©Â¤Â°Â¥ÃÂ¡Â¼Â¥Â¿Â°ÂµÂ½ÃÂ¤Ã²Â»ÃÃÃÂ¤Â¹Â¤Ã«Â¤Ã³Â¤ÃÂ¤ÃÂ¡Â¢ÃÃÂ¤Â¤Â¥ÃÂ¥ÃÂ¥ÃÂ¥Ã¯Â¡Â¼Â¥Â¯Â¤ÃÃÃÂ¹Â¥ÃÂ¤ÃÂ¥ÃÂ¥ÃÂ¥Â©Â¡Â¼Â¥ÃÂ¥Ã³Â¥Â¹Â¤Ã²ÃÃÂ¤Ã«Â¤Ã³Â¤ÃÂ¤Ã¢Â²ÃÃÂ½Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£

Zebedee Â¤ÃÂ¼Ã§Â¤ÃÃÃÃÂªÂ¤Ã:

- UNIX Â¤Ã Windows 95/98/NT Â¤ÃÃÃÃÂ½Â¤ÃÂ¤ÃÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¡Â¼Â¤ÃÂµÂ¡ÃÂ½Â¤Ã²ÃÃ³Ã¶Â¡Â¤Â¹Â¤Ã«Â¡Â£
- Â¤ÃÂ¤Ã³Â¤ÃÂ¾Â¯Â¤Â·Â¤ÃÃÃÃÂªÂ¤Â«ÃÂ´Â¤Â¯Â¤ÃÃÃÃÂªÃÂµÂ¤Â·Â¤ÃÂ´ÃÃ±Â¤ÃÂ¥Â¤Â¥Ã³Â¥Â¹Â¥ÃÂ¡Â¼Â¥Ã«Â¡Â¢Â»ÃÃÂ¡Â¢ÃÃÂ¼Ã©Â¤Â¬Â¤ÃÂ¤Â-Â¤Ã«Â¡Â£
- Â¾Â¯Â¤Â·Â¤ÃÃÃÂ²Â¥ÃÂ¡Â¼Â¥Â¿Â¤ÃÂ¡Â¢Â¾Â¯Â¤ÃÂ¤Â¤Â¥ÃÂ¥Ã-Â¥ÃÂ¥Ã³Â¥Ã«Â¤ÃÂ¥ÃªÂ¡Â¼Â¥ÃÂ¥ÃÂ¥ÃÂ¤ÃÂ¤ÃÂ¡Â¢Â°ÂµÂ½ÃÂ¤ÃÂ¨Â¤ÃªÃÂ¿Ã§Â¤ÃÂ¥ÃÂ¥Ã©Â¥ÃÂ¥Â£Â¥ÃÂ¥Â¯Â¤ÃÃÃ£Â¸Â°Â¤Ã²Â¹ÃÂ¤Â¦Â¡Â£
- ÃÃÂµÃ¶Â²Â½Â¤ÂµÂ¤Ã¬Â¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¤Â«Â¡Â¢Â¤ÃÂ¤Â¿Â¤ÃÃÃÂµÃ¶Â¤ÃÃÂ-Â¸Ã°Â´Ã¼Â¸ÃÂ¤Ã¬ÃÃÂ¤Ã¬Â¤ÃÂ¤ÃÂ¤ÃÂ¤Â«Â¥Â¢Â¥Ã«Â¥Â´Â¥ÃªÂ¥Â°Â¥Ã Â¤ÃÂ¤ÃÃÂ¤Ã²ÃÃÂ¤ÃÂ¤ÃÂ¤Â«Â¡Â£
- GNU Â°Ã¬ÃÃÂ¸Ã¸ÃÂ-Â»ÃÃÂµÃ¶ÃÂ°Â½Ã±(GPL)Â¤ÃÂ¤Ã¢Â¤ÃÂ¤ÃÃ¾Â¦ÃÃÂ¡Â¢Ã³Â¾Â¦ÃÃÂ¤Ã²ÃÂ¤Â¯Â¤Â°Â´Â°ÃÂ´Â¤ÃÂ¥ÃÂ¥ÃªÂ¡Â¼Â¤ÃÂ»ÃÃÂ¡Â¦ÃÃÃÂ¤Â¬Â¤ÃÂ¤ÃÂ¤Ã« (“CREDITS AND LEGALITIES” Â¤Ã²Â¸Â«Â¤Ã¨)Â¡Â£

Â¤Ã¢Â¤ÃÂ¤ÃÂ¤Ã³Â¡Â¢**Zebedee** Â¤ÃÂ½Ã©Â¤Ã¡Â¤ÃÂ¤ÃÂ¤Â¢Â¤Ã«Â¤ÃÂ¤ÃÃÂ£Â°Ã¬Â¤ÃÃÂ¸ÃÂ²ÃÃÂ½Â¤Ã Â¥Â»Â¥Â-Â¥ÃÂ¥Â¢Â¤ÃÂ¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â¥ÃÂ¥ÃÂ¥Â°Â¥Ã©Â¥Ã Â¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¤Â¡Â£Â¹Ã¢ÂµÂ¡ÃÂ½Â¤ÃÂ¤ÃÂ¤Â¦ÃÃÂ¤ÃÂ¤Ã **ssh** Â¤Ã¤ **SSL** Â¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÃÂ¦Â¤ÃÃÂªÂ¤ÃÂ¤Â¢Â¤ÃÂ¤Â©Â¤ÃÂ¤ÃÂ¤Â¬Â¡Â¢Â¤Ã¢Â¤Â·Â¡Â¢ÃÃÃÂ¡Â¤Â¯Â¡Â¢ÃÂ±Â½Ã£Â¤ÃÂ¡Â¢**Â´Â°ÃÂ´Â¤ÃÂ¥ÃÂ¥ÃªÂ¡Â¼**Â¤ÃÂ¤Ã¢Â¤ÃÂ¤Ã²ÂµÃ¡Â¤Ã¡

Â¤ÃÂ¤Â¤Â¤Ã«Â¤ÃÂ¤Ã©Â¡Â¢Â¤Â³Â¤Ã¬Â¤ÃÂ¥ÃÂ¥ÃÂ¥Â¿Â¥ÃªÂ¤ÃÂ¥ÃÂ¡Â¼Â¥Ã«Â¤ÃÂ¤Ã-Â¤Â¦Â¡Â£

Â¤Â³Â¤ÃÃÂ¸Â½Ã±Â¤Ã **Zebedee** Â¥ÃªÂ¥ÃªÂ¡Â¼Â¥Â¹ 2.2.0 Â¤ÃÂµÂ¡ÃÂ½Â¤ÃÂ¤ÃÂ¤Â¤ÃÂµÂÂ¤Â·Â¤ÃÂ¤Â¤Â¤Ã«.

ÃÂ¾ÃÂ°Â¤ÃÃÂ³ÃÃ¨Â¤Ã?(What’s in a name?)

Â¤Â¢Â¤ÃÂ¤Â¿Â¤Â¬ÂµÂ¿ÃÃ¤Â¤Ã²Â»Ã½Â¤ÃÂ¤Â¦Â¤Â¬Â»Ã½Â¤ÃÂ¤ÃÂ¤Â¤Â¤Â¬Â¡Â¢**Zebedee** Â¤ÃÂ¼Â¡Â¤Ã 3Â¤ÃÂ¤ÃÂ¼Ã§ÃÃÂ¤ÃÂ¥Â³Â¥Ã³Â¥ÃÂ¡Â¼ Â¥ÃÂ¥Ã³Â¥ÃÂ¤Â«Â¤Ã©ÃÂ¿ÃÂ¾Â¤ÂµÂ¤Ã¬Â¤Â¿Â¡Â£

- **Z**lib Â¤ÃÂ¤Ã¨Â¤Ã«Â°ÂµÂ½Ã
- **B**lowfish Â¤ÃÂ¤Ã¨Â¤Ã«Â°ÃÂ¹Ã¦Â²Â½
- **D**iffie-Hellman Â¤ÃÂ¤Ã¨Â¤Ã«ÃÂ§Â¾Ã

Â¤Â³Â¤Ã¬Â¤ÃÂ¤Ã¯Â¤Â«Â¤ÃÂ¤Â¿Â¤Ã¨Â¤Ã?

Â´Ã°ÃÃÂªÂ¤ÃÂ»ÃÂ¤Â¤ÃÃ½(Basic Usage)

Â¥Ã-Â¡Â¼Â¥Â«Â¥Ã«Â¥ÃÂ¥Â·Â¥Ã³Â¤ÃÂ¥ÃªÂ¥Ã¢Â¡Â¼Â¥ÃÂ¥ÃÂ¥Â¹Â¥ÃÂ¤Ã²Â°ÃÃÂ´Â¤ÃÃÃÂ³Â¤Â¹Â¤Ã«Â¤ÃÂ¤ÃÂ¡Â¢ Â¤ÃÂ¤Â°Â¥ÃªÂ¥Ã¢Â¡Â¼Â¥ÃÂ¥ÃÂ¥Â¹Â¥ÃÂ¤ÃÃÃ½Â¤ÃÂ¡Â¢**Zebedee** Â¤Ã²Â¥ÂµÂ¡Â¼Â¥ÃÂ¡Â¼Â¥Ã¢Â¡Â¼Â¥ÃÂ¤ÃÂµÂ¯ÃÂ°Â¤Â¹Â¤Ã«ÃÂ¬ÃÃÂ¤Â¬Â¤Â¢Â¤Ã«Â¡Â£ Â°Ã¬ÃÃÂ´ÃÃÂ±Â¤ÃÃÃ½ÃÂ¡Â¤ÃÂ¡Â¢**–s** Â¥ÂªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤Ã²Â»ÃÂ¤Â¦Â¤Â³Â¤ÃÂ¤ÃÂ¡Â£

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zebedee -s
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Â¤Â¦Â¤ÃÂ¤Â¯Â¤Â¤Â¤Â±Â¤Ã(Â¤Â¤Â¤Â¯Â¤ÃÂ¤Â°Â¡Âª)**Zebedee**Â¤Ã ÃÂ¼ÃÃ¶(windowsÂ¤ÃÂ¤ÃÂ¥Â³Â¥Ã³Â¥Â½Â¡Â¼Â¥Ã«Â¥Â¦Â¥Â¤Â¥Ã³Â¥ÃÂ¥Â¦)Â¤Â«Â¤Ã©ÃÃÂ¤ÃªÃÂ¥Â¤ÂµÂ¤Ã¬Â¤ÃÂ¥ÃÂ¥ÃÂ¥Â¯Â¥Â°Â¥Ã©Â¥Â¦Â¥Ã³Â¥ÃÂ¤ÃÃÃ¶Â¤Ã«Â¡Â£ Â¤Â½Â¤Â·Â¤ÃÂ¡Â¢Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤Â«Â¤Ã©Â¤ÃÃÃÃ³Â¤Ã²ÃÃÂ¤ÃÂ¡Â£

Â¼Â¡Â¤ÃÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¥ÃÂ¥Â·Â¥Ã³Â¤Ã**Zebedee**Â¤Ã²Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¥Ã¢Â¡Â¼Â¥ÃÂ¤ÃÂµÂ¯ÃÂ°Â¤Â¹Â¤Ã«Â¡Â£ Â¤Â³Â¤ÃÃÂ¾Ã¬Â¹Ã§Â¤ÃÂ¡Â¢Â¥ÃªÂ¥Ã¢Â¡Â¼Â¥ÃÂ¥ÃÂ¥Â¹Â¥ÃÂ¤ÃÂ¥ÃÂ¥Â¹Â¥ÃÃÂ¾Â¤ÃÂ¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â¤Â¹Â¤ÃÂ¤Ã-Â¥ÂµÂ¡Â¼Â¥ÃÂ¥Â¹ÃÂ¾Â¤Â«Â¥ÃÂ¡Â¼Â¥ÃÃÂ¹Ã¦ (Â¤Â³Â¤Â³Â¤ÃÂ¤ÃÂ¤Â³Â¤Ã¬Â¤Ã²Â¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÂ¸ÃÂ¤ÃÂ¤Â³Â¤ÃÂ¤ÃÂ¤Â¹Â¤Ã«)Â¤Ã²Â»ÃÃªÂ¤Â¹Â¤Ã«Â¡Â£ ÃÃ£Â¤Â¨Â¤ÃÂ¡Â¢Â¥ÃªÂ¥Ã¢Â¡Â¼Â¥ÃÂ¥ÃÂ¥Â¹Â¥ÃÂ¤ÃÃÂ¾ÃÂ°Â¤Â¬remhostÂ¤Ã Â°ÃÃÂ´Â¤Ã**telnet**Â¥Â»Â¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤Ã²ÃÂ¥Â¤ÃªÂ¤Â¿Â¤Â¤Â¤ÃÂ¤Â·Â¤Â¿Â¤Ã©Â¡Â¢Â¤Â³Â¤Â¦Â¤ÃÂ¤Ã«Â¡Â£

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zebedee remhost:telnet
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Â¼ÃÂºÃÂ¤ÃÂ¤ÃÂ¡Â¢Â¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÂ¥ÃÂ¥ÃÂ¥Â©Â¥Ã«Â¥ÃÂ¤Â¬telnetÂ¤ÃÂ¤ÃÂ¤Ã Â¤Â³Â¤ÃÂ¥Â±Â¡Â¼Â¥Â¹Â¤ÃÂ¤ÃÂ¼Â¡Â¤ÃÂ¤Ã¨Â¤Â¦Â¤ÃÂ¾ÃÃÂ¬Â¤Â·Â¤ÃÂ¤Ã¢Â¤Ã¨Â¤Â¤Â¡Â£

```
zebedee remhost
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Â¤Â³Â¤ÃÂ¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¤Ã²Â¼ÃÂ¹ÃÂ¤Â¹Â¤Ã«Â¤ÃÂ¡Â¢ Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â¤ÃÃÂ¾Â¸Â½Â¤ÃÂ¤ÃÂ¤Ã«(Â¥Ã-Â¡Â¼Â¥Â«Â¥Ã«ÃÂ¦Â¤Ã)Â¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÃÂ¹Ã¦Â¤Â¬ÃÂ½Â¼Â¨Â¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£ **Zebedee**Â¤ÃÃÂ¼ÃÃ¶Â¤Â«Â¤Ã©ÃÃÂ¤ÃªÃÂ¥Â¤ÂµÂ¤Ã¬Â¤ÃÂ¥ÃÂ¥ÃÂ¥Â¯Â¥Â°Â¥Ã©Â¥Â¦Â¥Ã³Â¥ÃÂ¤ÃÃÃ¶Â¤ÃªÂ¡Â¢ Â¤Â³Â¤ÃÂ¥Ã-Â¡Â¼Â¥Â«Â¥Ã«ÃÂ¦Â¤ÃÂ¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÃÃÃ³Â¤ÂµÂ¤Ã¬Â¤Ã«Â¤ÃÂ¤Ã²ÃÃÂ¤ÃÂ¡Â£ ÃÃ£Â¤Â¨Â¤ÃÂ¡Â¢1234Â¤ÃÃÂ½Â¼Â¨Â¤ÂµÂ¤Ã¬Â¤Â¿Â¤Ã©Â¡Â¢

```
telnet localhost 1234
```

Â¤ÃÂ¤Â¹Â¤Ã¬Â¤ÃÂ¡Â¢remhostÂ¤ÃÂ°ÃÃÂ´Â¤ÃÂ¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â·ÃÃÂ³Â¤ÃÃÃÂ³Â¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£

Â¥ÃÂ¥ÃÂ¥Â©Â¥Ã«Â¥ÃÂ¤ÃÂ¤ÃÂ¡Â¢**Zebedee**Â¤ÃÂ¥ÃÂ¥Ã-Â¥Â»Â¥Â¹Â¤Ã²Â½ÂªÃÂ»Â¤ÂµÂ¤Â»Â¤Ã«Â¤ÃÂ¤ÃÃÃÃÂ³Â¤Ã²ÃÃÂ¤ÃÃÃÂ³Â¤Â±Â¤ÃÂ¡Â¢ ÃÂ¬ÃÃÂ¤Â¬Â¤Â¢Â¤Ã¬Â¤ÃÃÂ±Â»Ã¾ÃÂ¯ÃÂ¸Â¤Â¹Â¤Ã«ÃÂ£Â¿Ã´Â¤ÃÂ¥Â³Â¥ÃÂ¥Â¯Â¥Â·Â¥Ã§Â¥Ã³Â¤Ã²Â½Ã¨ÃÃ½Â¤Â¹Â¤Ã«Â¡Â£

Â»Ã¾Â¤ÃÂ¤ÃÂ¡Â¢**Zebedee**Â¤Ã²ÂµÂ¯ÃÂ°Â¤Â·Â¡Â¢ Â¤Â½Â¤ÃÂ¸Ã¥Â¤Â¹Â¤Â°Â¤ÃÂ¤Â½Â¤ÃÂ¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÃÃÃÂ³Â¤Â¹Â¤Ã«Â¥Â³Â¥ÃÂ¥Â³Â¥ÃÂ¤Ã²ÂµÂ¯ÃÂ°Â¤Â·Â¤Â¿Â¤ÃÂ¤Â³Â¤ÃÃÂ¤Ã¢Â¤Â¢Â¤Ã«Â¤ÃÂ¤Ã¦Â¤Â¦Â¡Â£ Â¤Â³Â¤Ã¬Â¤Ã²Â°Ã¬ÃÂ¯Â¤ÃÂ¤ÃÂ¤Â¤Ã«Â¤ÃÂ¤ÃÃÂ¼Â¡Â¤ÃÂ¤Ã¨Â¤Â¦Â¤ÃÃÂ¤Â¹Â¤Ã«Â¡Â£

```
zebedee -e "telnet localhost %d" remhost
```

ÃÂ¸Â»Ã°ÃÃ³ÃÃ¦Â¤Ã"%d"Â¤Â¬Â¥ÃÂ¡Â¼Â¥Â«Â¥Ã«Â¥ÃÂ¡Â¼Â¥ÃÃÃÂ¹Ã¦Â¤ÃÃÃÂ¤Â´Â¹Â¤Â¨Â¤Ã©Â¤Ã¬Â¤Ã«Â¡Â£Â½Â¾ÃÂ¤ÃÂ¡Â¢ **Zebedee**Â¤ÃÂ¥ÃÂ¡Â¼Â¥ÃÃÃÂ¹Ã¦Â¤Ã²ÃÂ½Â¼Â¨Â¤Â·Â¤ÃÂ¤Â¤(Â¤Â¹Â¤Ã«ÃÂ¬ÃÃÂ¤Â¬Â¤ÃÂ¤Â¤)Â¡Â£ Â¤Â³Â¤ÃÂ¤Ã¨Â¤Â¦Â¤ÃÂ¥Â³Â¥ÃÂ¥Â³Â¥ÃÂ¤Ã²Â»ÃÃªÂ¤Â·Â¤Â¿Â¾Ã¬Â¹Ã§Â¤ÃÂ¤ÃÂ¡Â¢Â¤Â½Â¤ÃÂ¥Â³Â¥ÃÂ¥Â³Â¥ÃÂ¤Â¬ÃÃÃÂ³Â¤Ã²Â½ÂªÃÂ»Â¤Â¹Â¤Ã«Â¤ÃÃÃ±Â»Ã¾Â¤ÃÂ¡Â¢Â¥Ã¡Â¼Â¥Â«Â¥Ã«ÃÂ¦Â¤Ã**Zebedee**Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤Â¢Â½ÂªÃÂ»Â¤Â¹Â¤Ã«Â¡Â£

Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤Â¬Â»ÃÃÃÂ¤Â¹Â¤Ã«Â¥Ã¡Â¼Â¥Â«Â¥Ã«Â¥ÃÂ¡Â¼Â¥ÃÃÃÂ¹Ã¦Â¤Ã²Â»ÃÃÃªÂ¤Â·Â¤Â¿Â¤Â¤(Â¤Â¹Â¤Ã«ÃÂ¬ÃÃÂ¤Â¬Â¤Â¢Â¤Ã«)Â¤Â³Â¤ÃÂ¤Ã¢Â¤Â¢Â¤Ã«Â¤ÃÂ¤ÃÂ¤Â¦Â¡Â£ (ÃÃÂ¸Ã®Â¤Â·Â¤Â¿Â¤Â¤ÃÃÂ¿Â®Â¤Ã²Â¹ÃÂ¤ÃÂ¤Â¦)Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¤Â¬Â¡Â¢ÃÃÃªÂ¤ÃÂ¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÃÃÃÂ³Â¤Â·Â¤ÃÂ¨Â¤Â¦Â¤ÃÂ¤Â¹Â¤Ã«Â¾Ã¬Â¹Ã§Â¤ÃÂ¡Â£ Â¤Â³Â¤ÃÂ¾Ã¬Â¹Ã§Â¤ÃÂ¡Â¢**Zebedee**Â¤Ã²Â¼Â¡Â¤ÃÂ¤Ã¨Â¤Â¦Â¤ÃÂµÂ¯ÃÂ°Â¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤ÃÂ¡Â¢ Â¥ÃÂ¡Â¼Â¥Â«Â¥Ã«Â¥ÃÂ¡Â¼Â¥ÃÂ¤Ã²Â»ÃÃªÂ¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤Ã¢Â¤ÃÂ¤Â¤Ã«Â¡Â£

```
zebedee clientport:hostname:targetport
```

ÃÃ£Â¤Â¨Â¤ÃÂ¡Â¢Â¼Â¡Â¤ÃÂ¥Â³Â¥ÃÂ¥Â³Â¥Ã:

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zebedee 8000:webhost:80
```

Â¤ÃÂ¡Â¢Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤Ã8000ÃÃÂ¥ÃÂ¡Â¼Â¥ÃÂ·ÃÃÂ³Â¤ÃÃÃÃÂ³Â¤Â¹Â¤Ã«Â¡Â¢ **webhost**Â¤ÃÂ¤ÃÃÂ´Â¤ÃÂ¤ÃHTTPÃÃÂ³Â¤Ã²ÃÃÂ¸Ã®Â¤Â¹Â¤Ã«Â¡Â£ Â¾ÃÂ°ÃÂ¤ÃEXAMPLESÂ»Â²Â¾ÃÂ¤ÃÂ¤Â³Â¤ÃÂ¡Â£

Â¤ÃÂ¤Â¿Â¡Â¢**Zebedee** Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤Ã ÃÂ±Â°Ã¬Â¥ÃÂ¥Â¹Â¥ÃÃÂ¢Â¤ÃÃÃ£Â¿Ã´Â¤ÃÂ¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥ÃÂ¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÃÃÃÂ¤Â·Â¤ÃÂ¡Â¢ ÃÂ£Â¿Ã´Â¤ÃÂ¥ÃÂ¥Â³Â¥ÃÂ¥Â«Â¤Ã²(ÃÂ±Â»Â¾ÃÃÂ¹ÃÃÂªÂ¤Ã)Â°Â·Â¤Â¦Â¤Â³Â¤ÃÂ¤Ã¢Â¤ÃÂ¤Â«Â¡Â£ Â¤Â³Â¤ÃÂ¾Ã¬Â¹Ã§Â¤ÃÂ¡Â¢Â¥Â¡Â¼Â¥Â«Â¥Ã«Â¤ÃÂ¥ÃªÂ¥Ã¢Â¡Â¼Â¥ÃÂ¤ÃÂ¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÂ»ÃÃªÂ¤ÃÂ¥ÃÂ¡Â¼Â¥ÃÃÃÂ¹Ã¦Â¤ÃÂ¥ÃªÂ¥Â¹Â¥ÃÂ¤ÃÂ¤ÃÂ¤Ã«Â¡Â£ ÃÃ£Â¤Â¨Â¤Ã

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zebedee 9001,9002,9003:somehost:daytime,telnet,ftp
```

Â¤Â³Â¤Ã¬Â¤ÃÂ¡Â¢9001ÃÃÂ¤ÃÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÂ¤ÃÃÃÂ¿Â®Â¤Ã²Â¡Â¢ Â¥ÃªÂ¥Ã¢Â¡Â¼Â¥ÃÂ¤ÃÂ¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥ÃÂ·Â¥Â¹Â¥ÃÂ¥ Â¤Ã**daytime**Â¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÂ¤ÃÂ¥ÃÂ¥Â³Â¥ÃÂ¥Â«Â¤Â¹Â¤Ã«Â¡Â£ ÃÂ±ÃÃÂ¤ÃÂ¡Â¢9002ÃÃÂ¤Ã**telnet**Â¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÂ¡Â¢9003ÃÃÂ¤Ã**ftp**Â¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÂ¥ÃÂ¥Â³Â¥ÃÂ¥Â«Â¤Â¹Â¤Ã«Â¡Â£

Â¤Â³Â¤ÃÂ¡Â¢Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¡Â¦Â¤ÃÂ¼ÃµÂ¤Â±Â¤ÃÂ¤Â±Â¥ÃÂ¡Â¼Â¥ÃÂ¡Â¢Â¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥ÃÂ¤ÃÂ¤ÃÂ¤Ã«Â¥ÃÂ¥Â¹Â¥ÃÂ¡Â¢Â¤Â½Â¤Â·Â¤ÃÃÃÃÂª Â¤ÃÂ¥ÃÂ¡Â¼Â¥ÃÃÃÂ¹Ã¦Â¤ÃÃÃÂ¤ÃÂ¹Ã§Â¤Â¯Â¤Â»Â¤ÃÂ¡ÃÂ¥ÃÂ¥Â³Â¥ÃÂ¥Â«Â»ÃÃ(tunnel specification)Â¡ÃÂ¤ÃÂ¸ÃÂ¤ÃÂ¤Ã¬ Â¤Ã«Â¡Â£Â¾ÃÂ¤Â·Â¤Â¯Â¤Ã **tunnel** Â¥Â¡Â¼Â¥Â¯Â¡Â¼Â¥ÃÂ»Â²Â¾ÃÂ¤ÃÂ¤Â³Â¤ÃÂ¡Â£

UDPÂ¥ÃÂ¥Ã³Â¥ÃÂ¥ÃªÂ¥Ã³Â¥Â°(UDP Tunnelling)

ZebedeeÂ¤ÃÂ¤Ã¢Â¤ÃÂ¤Ã¢Â¤ÃÂ¤Ã TCP/IP Â¤ÃÂ¥ÃÂ¥Ã©Â¥ÃÂ¥Â£Â¥ÃÂ¥Â¯Â¤ÃÂ¤Â±Â¤Ã²Â°Â·Â¤Â¦Â¤Ã¨Â¤Â¦Â¤ÃÃÃÂ·ÃÂ¤ÂµÂ¤Ã¬Â¤Â¿Â¤Â¬Â¡Â¢ Â¥ÃÂ¡Â¼Â¥Â¸Â¥Â§Â¥Ã³2.0.0Â¤Â«Â¤Ã©Â¤ÃÂ¥Â³Â¥ÃÂ¥Â¯Â¥Â·Â¥Â§Â¥Ã³Â¥Ã¬Â¥Â¹Â¤ÃUDPÂ¤ÃÂ¥ÃÂ¡Â¼Â¥Â¿Â¤Ã¢Â°Â·Â¤Â¨Â¤Ã«Â¤Ã¨Â¤Â¦Â¤ÃÂ¤ÃÂ¤ÃÂ¤Â¿Â¡Â£ Â¤Â³Â¤ÃÂµÂ¡ÃÂ½Â¤Ã²ÃÃÂ¸ÂºÂ¤ÃÂ¤Â¹Â¤Ã«Â¤ÃÂ¤Ã**Zebedee**Â¤Ã² **–u** Â¥ÂªÂ¥ÃÂ¥Â·Â¥Â§Â¥Ã³ÃÃÂ¤ÃÂµÂ¯ÃÂ°Â¤Â¹Â¤Ã« (Â¤ÃÂ¤Â¿Â¤ÃÂ¡Â¢**udpmode** Â¥Â¡Â¼Â¥Â¯Â¡Â¼Â¥ÃÂ¤Ã²Â»ÃÃÂ¤Â¹Â¤Ã«)Â¡Â£ ÃÃ£Â¤Â¨Â¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÃÂ¦Â¤Ã

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zebedee -s -u
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Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÃÂ¦Â¤Ã

```
zebedee -u 10000:somehost:echo
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Â¤Ã²Â¼ÃÂ¹ÃÂ¤Â¹Â¤Ã«Â¡Â£Â¤ÃÂ¤Âª Â¡Â¢Â¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ¡Â¢TCPÂ¤Â«UDPÂ¤ÃÂ¤ÃÂ¤ÃÂ¤Ã©Â¤Â«Â¤Ã²Â°Â·Â¤Â¤Â¡Â¢
ÃÂ¾ÃÃ½ÃÂ±Â»Ã¾Â¤ÃÂ°Â·Â¤Â¦Â¤Â³Â¤ÃÂ¤ÃÂ¤ÃÂ¤Â-
Â¤ÃÂ¤Â¤Â¡Â£ÃÂ¾ÃÃ½Â¤ÃÂ¥Â¿Â¥Â¤Â¥ÃÂ¤Ã²Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â¤Â¹Â¤Ã«Â¤ÃÂ¤ÃÂ¡Â¢
2Â¤ÃÂ¤ÃÃÃÂ©Â¤Â·Â¤Â¿Â¥Â¤Â¥Ã³Â¥Â¹Â¥Â¿Â¥Ã³Â¥Â¹Â¤Ã²ÂµÂ¯ÃÂ°Â¤Â¹Â¤Ã«Â¡Â£
TCPÂ¥Ã¢Â¡Â¼Â¥ÃÂ¤ÃUDPÂ¥Ã¢Â¡Â¼Â¥ÃÂ¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ°Ã£Â¤Â¦Â¥ÃÂ¡Â¼Â¥ÃÂ¤Ã²Â»ÃÂ¤Â¦Â¤ÃÂ¤ÃÂ¡Â¢
ÃÂ¾Â¼ÃÂ¤Ã²ÃÂ±Â¤Â¸Â¥Â·Â¥Â¹Â¥ÃÂ¥Ã Â¤ÃÂµÂ¯ÃÂ°Â¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤ÃÂ°ÃÃÂ´Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£

UDPÂ¥Ã¢Â¡Â¼Â¥ÃÂ¤ÃÂ¤Ã¢**Zebedee**Â¤ÃÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ´ÃÂ¤ÃÂ¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â¤ÃTCP/IPÂ¤ÃÃÃÂ³Â¤Â¹Â¤Ã«Â¡Â£
Â¤Â³Â¤ÃÃÃÂ³Â¤ÃÃÂµÃÃÂ¿Â®Â¤Â¬Â°Ã¬ÃÂªÂ»Ã¾Â´ÃÃÂ³Â¤Â¯Â¤ÃÂ¥Â¿Â¥Â¤Â¥Ã Â¥Â¢Â¥Â¦Â¥ÃÂ¤Â¹Â¤Ã«Â¡Â£
Â¥Â¿Â¥Â¤Â¥Ã Â¥Â¢Â¥Â¦Â¥ÃÂ¤Â·Â¤ÃÂ¤Â«Â¤Ã©Â¤ÂµÂ¤Ã©Â¤ÃÂ¥ÃÂ¡Â¼Â¥Â¿Â¤Â¬ÃÃ¨Â¤Â«Â¤ÃÂ¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â¤ÃÃÂºÃÃÃÂ³Â¤Ã²Â¹ÃÂ¤Â¦ÃÂ¬ÃÂ¤Â¬Â¤Â¢Â¤Ã«Â¤ÃÂ¤ÃÂ¡Â¢
Â¥Â¢Â¥ÃÂ¥ÃªÂ¥Â±Â¡Â¼Â¥Â·Â¥Ã§Â¥Ã³Â¤ÃÃÃÃÂ¤ÃÂ¤Ã¨Â¤ÃÂ¤ÃÂ¤Ã
UDPÂ¥Ã¢Â¡Â¼Â¥ÃÂ¤ÃÂ¥ÃÂ¥ÃÂ¥Â©Â¡Â¼Â¥ÃÂ¥Ã³Â¥Â¹Â¤Â¬Â¤Ã¨Â¤Â¯Â¤ÃÂ¤Â¤Â¤Ã¨Â¤Â¦Â¤ÃÂ¸Â«Â¤Â¨Â¤Ã«Â¤Â³Â¤ÃÂ¤Â¢Â¤Â¢Â¤Ã«Â¡Â£
Â¤ÃÂ¤Â¿Â¡Â¢Â°Â·Â¤Â¨Â¤Ã«UDPÂ¥ÃÂ¥Â¤Â¥Â¢Â¥Â°Â¥Ã©Â¥Ã Â¤ÃÂ¥ÂµÂ¥Â¤Â¥ÂºÂ¤ÃÂ¤Ã¢ÃÂ©Â¸ÃÂ¤Â¬Â¤Â¢Â¤Ã«Â¤Â³Â¤ÃÂ¤ÃÂ¤Ã¢ÃÃ-
Â°ÃÂ¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¡Â£

Â¾ÃÂºÃÂ¤ÃÂ¡Â¢**maxbufsize**Â¡Â¢ **udpmode**Â¡Â¢ **udptimeout** Â¤Ã²Â»Â²Â¾ÃÂ¤ÃÂ¤Â³Â¤ÃÂ¡Â£

Â¸ÃÃÂ¤ÃÃÃªÂµÃ(Some Terminology)

ÃÃÂ¾Ã¯Â¤ÃÂ¡Â¢**Zebedee**Â¤ÃÂ¤Ã¨Â¤ÃÂ¤ÃÂ¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â¤Ã²Â¥Â»Â¥ÃÂ¥ÃÂ¥Â¢Â¥ÃÂ¥ÃÂ¤Â·Â¤Ã¨Â¤Â¦Â¤ÃÂ¤Â¹Â¤Ã«Â¾Ã¬Â¹Ã§Â¡Â¢Â´ÃÂ·Â¸Â¤Â¹Â¤Ã«Â¥Â·Â¥Â¹Â¥ÃÂ¥Ã Â¤Ã2Â¤ÃÂ¤ÃÂ¤Â¢Â¤Ã«Â¡Â£
ÃÃÃ½Â¤ÃÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤Ã²ÂµÂ¯ÃÂ°Â¤Â·Â¤ÃÂ¡Â¢Â¥Ã-
Â¡Â¼Â¥Â«Â¥Ã«Â¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÂ¤Â½Â¤Ã¬Â¤ÃÃÃÂ¿Â®Â¤Â¹Â¤Ã«Â¡Â£
ÃÂ¿ÃÃÂ¦Â¤ÃÂ¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤Ã²ÂµÂ¯ÃÂ°Â¤Â·Â¤ÃÂ¡Â¢Â¤Â½Â¤ÃÂ¥Â·Â¥Â¹Â¥ÃÂ¥Ã Â¤ÃÃÂ°ÂºÃ®Â¤Â·Â¤ÃÂ¤Â¤Â¤Ã«Â¥ÂµÂ¡Â¼Â¥ÃÂ¥Â¹Â¤ÃÂ²Ã±ÃÂ¤Â¹Â¤Ã«Â¡Â£
Â¤Â·Â¤Â«Â¤Â·Â¤ÃÂ¤Â¬Â¤Ã©Â¡Â¢Â¼Â¡Â¤ÃÂ¤Ã¨Â¤Â¦Â¤ÃÂºÃÃ§4Â¤ÃÂ¤ÃÂ¥Â·Â¥Â¹Â¥ÃÂ¥Ã (Â¥ÃÂ¥Â·Â¥Ã³)Â¤Â¬Â´ÃÂ·Â¸Â¤Â¹Â¤Ã«Â¥Â±Â¡Â¼Â¥Â¹Â¤Â¢Â¤Â¢Â¤ÃªÂ¤Â¨Â¤Ã«Â¡Â£

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[Â¥Â½Â¡Â¼Â¥Â¹] <===> [Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥Ã] <=====> [Â¥ÂµÂ¡Â¼Â¥Ã] <===> [Â¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥Ã]
                  |                              |                     |
                  +- Â°ÃÃÂ´Â¤ÃÂ¤ÃÂ¤              |                     + Â°ÃÃÂ´Â¤ÃÂ¤ÃÂ¤
                     ÃÃÂ³                        |                    ÃÃÂ³
                                               +- Â°ÃÃÂ´Â¤ÃÂ¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«
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ZebedeeÂ¤ÃÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ¡ÃÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¡ÃÂ¥Â·Â¥Â¹Â¥ÃÂ¥Ã Â¤ÃÂ¡Â¢
Â¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ¡ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¡ÃÂ¥Â·Â¥Â¹Â¥ÃÂ¥Ã Â¤ÃÂ¤Â½Â¤Ã¬Â¤Â¾Â¤Ã¬ÃÂ°ÂºÃ®Â¤Â·Â¤ÃÂ¤Â¤Â¤Ã«Â¡Â£
Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«ÃÃÃªÂ¤ÃÂ·ÃÂµÂ¡Â¤ÃÂ¤ÃÂ¤Ã«Â°ÃÂ½Ã©Â¤ÃÃÃÂ³Â¤ÃÂ¡ÃÂ¥Â½Â¡Â¼Â¥Â¹Â¡ÃÂ¥ÃÂ¥Â·Â¥Ã³Â¤Â«Â¤Ã©ÃÂ¯ÃÂ¸Â¤Â¹Â¤Ã«Â¡Â£
Â¡ÃÂ¥Â½Â¡Â¼Â¥Â¹Â¡ÃÂ¤ÃÂ¡ÃÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¡ÃÂ¤ÃÂ°Ã£Â¤Â¦Â¥Â·Â¥Â¹Â¥ÃÂ¥Ã Â¤ÃÂ¤Â¢Â¤ÃÂ¤ÃÂ¤Â¢Â¤Â«Â¤ÃÂ¤Â¯Â¤ÃÂ¤Â¤Â¤Â¬Â¡Â¢
ÃÂ¾Ã¯Â¤ÃÂ±Â°Ã¬Â¤ÃÂ¥Â·Â¥Â¹Â¥ÃÂ¥Ã Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£
Â¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ°ÃÂ¸Ã¥Â¤ÃÂ¡ÃÂ¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥ÃÂ¡ÃÂ¥Â·Â¥Â¹Â¥ÃÂ¥Ã Â¤ÃÃÃÂ¿Â®Â¤Â¹Â¤Ã«Â¡Â£
Â¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥ÃÂ¤Ã¢ÃÂ¡ÃÂ¤ÃÂ¥Â½Â¡Â¼Â¥Â¹Â¤ÃÂ±Â¤Â¸Â¥ÃÂ¥Â·Â¥Ã³Â¤ÃÂ¤ÃÂ¤Â«Â¤Â¬Â¡Â¢Â°Ã£Â¤Â¦Â¥ÃÂ¥Â·Â¥Ã³Â¤ÃÂ¤Â¢Â¤ÃÂ¤ÃÂ¤Ã¢ÃÂ´Â¤Â¯ÃÂ¤ÃÂªÂ¤ÃÂ¤ÃÂ¤Â¤Â¡Â£

Â¤ÃÂ¤ÃÂ¤Ã³Â¤ÃÂ¤ÃÂ¾Ã¬Â¹Ã§Â¡Â¢Â¡ÃÂ¥Â½Â¡Â¼Â¥Â¹Â¡ÃÂ¤ÃÂ¡ÃÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¡ÃÂ¡Â¢
Â¡ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¡ÃÂ¤ÃÂ¡ÃÂ¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥ÃÂ¡ÃÂ¤ÃÂ°Ã£Â¤Â¤Â¤Ã²ÂµÂ¤Â¤ÃÂ¤Â¹Â¤Ã«ÃÂ¬ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¤Â¤Â¡Â£
Â¤Â·Â¤Â«Â¤Â·Â¡Â¢Â¤Â³Â¤ÃÃÃÂ¸Ã¬Â¤ÃÂ¶Ã¨ÃÃÂ¤Â¬Â°ÃÂ²Â¼Â¤ÃÂ½ÃÂ¤ÃÂ¤Â«Â¥Â-
Â¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÃÂ¿Â¤Â¯ÃÂ¿Â±ÃÂ¤Â·Â¤ÃÂ¤Â¤Â¤Â«Â¡Â£ Â¥Â-
Â¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÃÂ¢ÃÃÂ¤Ã²ÃÃÂ¤Ã Â»Ã¾Â¤ÃÂ¤ÃÂ¡Â¢Â¤Â³Â¤ÃÂ¤Â³Â¤ÃÂ¤Ã²ÃÂ¬Â¤ÃÃÃ¾Â¤Ã¬Â¤ÃÂ¤ÂªÂ¤Â¤Â¤Â¿Â¤ÃÂ¤Â¦Â¤Â¬Â¤Â¤Â¤Â¤Â¤ÃÂ¤Ã-
Â¤Â¦Â¡Â£

ZebedeeÂ¤ÃÂ¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â¤ÃÃÂ´ÃÂ·Â¸Â¤Â¹Â¤Ã«Â¤Â³Â¤Ã4Â¤ÃÂ¥Â·Â¥Â¹Â¥ÃÂ¥Ã Â¤ÃÃÃ¤ÃÃªÂ¤ÃÃÃÂ¤ÃÂ¡Â¢
Â°ÃÃÂ´Â¤ÃÃÃÃÂ³Â¤Â¹Â¤Ã«Â¤Â¿Â¤Ã¡Â¤ÃÂ¡Â¢Â¤Â¤Â¯Â¤ÃÂ¤Â«Â¤ÃÃÂ´Â¤Â¯Â°Ã£Â¤Â¦Â¥Â¿Â¥Â¤Â¥ÃÂ¤ÃÂ¡ÃÂ¥Â-
Â¡Â¼(key)Â¡ÃÂ¤Â¬Â»ÃÂ¤Ã¯Â¤Ã¬Â¤Ã«Â¡Â£
Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤Ã**private
key**(ÃÃ«ÃÂ©Â¸Â°)Â¤ÃÂ¤Â¤Â¦ÃÃÂ¤Ã²ÃÂ¬ÃÃÂ¤ÃÂ¤Â¹Â¤Ã«
(Â¼Â«ÃÂ¬Â¤ÃÃÂ¸ÃÂ®Â¤Â¹Â¤Ã«Â¾Ã¬Â¹Ã§Â¤Ã¢Â¤Ã¢Â¤Ã«)Â¡Â£ Â¤Â³Â¤ÃÂ¥Â-
Â¡Â¼Â¤Â«Â¤Ã©Â¤ÃÂ¡Â¢public values Â¤Â¬Â·ÃÂ»Â»Â¤ÂµÂ¤Ã¬Â¸Ã²Â´Â¹Â¤ÂµÂ¤Ã¬Â¡Â¢
Â¤Â½Â¤Ã¬Â¤ÃÂ¤Ã¨Â¤Ãª**shared secret key** Â¤Â¬ÃÂ³Â¤ÃÂ½ÃÂ¤ÂµÂ¤Ã¬Â¤Ã«
(Â¤Â³Â¤ÃÂ»Ã¾Â¤ÃDiffie–Hellman key agreement mechanism Â¤Â¬Â»ÃÃÂ¤ÂµÂ¤Ã¬Â¤Ã«)Â¡Â£
Â¤Â³Â¤ÃÂ¥Â-
Â¡Â¼Â¤Â«Â¤Ã©Â¤ÃÂ¡Â¢ÃÃÂ³Â¤ÃÂ¤Â¿Â¤ÃÂ¤ÃÂ¥Ã¦Â¥ÃÂ¡Â¼Â¥Â¯Â¤Ã**session**

keyÂ¤Â¬ÃÂ³Â¤ÂÂ½ÃÂ¤ÂµÂ¤Ã¬Â¡Â¢ Â°ÃÂ½ÂªÃÂªÂ¤ÃÂ¤Â³Â¤ÃÂ¥Â-Â¡Â¼Â¤ÃÂ°ÃÂ¹Ã¦Â²Â½Â¤Â¬Â¹ÃÂ¤ÃÂ¤Ã¯Â¤Ã¬Â¤Ã«Â¡Â£

ÃÂ£Â¿Ã´Â¤ÃÂ¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥Ã(Multiple Destinations)

2.1.0Â°ÃÂ°Â¤Ã**Zebedee**Â¤ÃÂ¤ÃÂ¡Â¢Â¤ÃÂ¤ÃÃÂ¤ÃÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥Ã/Â¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ¥ÃÂ¥Â¢Â¤ÃÂ¡Â¢Â¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥ÃÂ¤ÃÂ¤Ã«Â¥ÃÂ¥Â¹Â¥ÃÂ¤Ã²Â¤ÃÂ¤ÃÂ¤ÃÂ¤Â·Â¤Â«Â°Â·Â¤Â¨Â¤ÃÂ¤Â«Â¤ÃÂ¤Â¿Â¡Â£Â¤Â·Â¤Â«Â¤Â·Â¤Â³Â¤ÃÂ¥ÃÂ¡Â¼Â¥Â¸Â¥Ã§Â¥Ã³Â¤Â«Â¤Ã©Â¤ÃÂ¡Â¢ÃÂ£Â¿Ã´Â¤ÃÂ¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥ÃÂ¤ÃÂ¤ÃÂ¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â¤Ã²Â°Â·Â¤Â¦Â¤Â³Â¤ÃÂ¤Â¬Â¤ÃÂ¤Â-Â¤Ã«Â¡Â£

Â¥ÂµÂ¡Â¼Â¥ÃÂ¤Ã²ÂµÂ¯ÃÂ°Â¤Â¹Â¤Ã«Â»Ã¾Â¤ÃÂ¡Â¢Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã©Â¥Â¤Â¥Ã³Â¤Â« **target** Â¥ÃÂ¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤Â«Â¤Ã©ÃÂ£Â¿Ã´Â¤ÃÂ¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥ÃÂ¤Ã²ÃÂ¿Â¤Â¨Â¤Ã«Â¤Â³Â¤ÃÂ¤Â¬Â¤ÃÂ¤ÃÂ¤Ã«Â¡Â£Â¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥ÃÂ¤ÃÂ¤ÃÂ¥ÃÂ¥Â¹Â¥ÃÃÂ¾Â¤ÃÂ¤Â¢Â¤ÃªÂ¡Â¢Â¸Â¥ÃÂ¤ÃÃÃÂ³Â¤Ã²ÂµÃ¶Â²ÃÂ¤Â¹Â¤Ã«Â¥ÃÂ¡Â¼Â¥ÃÃÂ¹Ã¦Â¤ÃÂ¥ÂªÂ¥Â¹Â¥ÃÂ¤Ã²Â¤ÃÂ¤Â±Â¤ÃÂ¤Ã¢Â¤Ã¨Â¤Â¤Â¡Â£

server-hostÂ¤ÃÂ¤Â¤Â¦Â¥ÃÂ¥Â·Â¥Ã³Â¤ÃÂ°ÃÂ²Â¼Â¤ÃÂ¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¤Ã²Â¼ÃÂ¹ÃÂ¤Â·Â¤Â¿Â¤ÃÂ¤Â·Â¤Ã¨Â¤Â¦Â¡Â£

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zebedee -s target1:daytime,telnet target2:telnet target3
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Â¤Â½Â¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ¡Â¢**target1**Â¤Ã**daytime**Â¥ÃÂ¡Â¼Â¥ÃÂ¤Ã**telnet**Â¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÃÂ¤Â¹Â¤Ã«ÃÃÂ³Â¤ÃÂ¡Â¢ **target2**Â¤Ã**telnet**Â¤ÃÃÂ¤Â¹Â¤Ã«ÃÃÂ³Â¡Â¢ ÂµÂ¤ÃÂ¡Â¢**target3**Â¤ÃÃÂ¤Â¹Â¤Ã«Â´Â¤ÃÂ¤ÃÂ¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÂ¤ÃÃÃÂ³Â¤Ã²ÂµÃ¶Â²ÃÂ¤Â¹Â¤Ã«Â¡Â£

Â¥ÂµÂ¡Â¼Â¥ÃÂ¤Ã²Â°ÃÂ¾Â¥Â¤ÃÂ¤Ã¨Â¤Â¦Â¤ÃÂµÂ¯ÃÂ°Â¤Â·Â¤Â¿Â¤Ã©Â¡Â¢Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ¼Â¡Â¤ÃÂ¤Ã¨Â¤Â¦Â¤ÃÂ¤ÃÂ¤Ã«Â¤ÃÂ¤Â-Â¤Â¦Â¡Â£

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zebedee serverhost 10000:target1:telnet 20000:target3:telnet
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Â¤Â³Â¤ÃÂ¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¤ÃÂ¤Ã¨Â¤ÃªÂ¡Â¢**serverhost**Â¤Ã**Zebedee** Â¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÃÃÂ³Â¤Â·Â¡Â¢Â¤Â½Â¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤Ã²Â¼Â¡Â¤ÃÂ¤Ã¨Â¤Â¦Â¤Ã2Â¤ÃÂ¤ÃÂ¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â¤ÃÃÃÃÂªÂ¤ÃÂ»ÃÃÂ¤ÃÂ¹Â¤Ã«Â¡Â£Â¤ÃÂ¤ÃÂ°Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ¥ÃÂ¡Â¼Â¥Ã10000Â¤Â«Â¤Ã©**target1**Â¤Ã**telnet**Â¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÂ¤ÃÂ¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â¡Â¢Â¼Â¡Â¤Â¬Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ¥ÃÂ¡Â¼Â¥Ã20000Â¤Â«Â¤Ã©**target3**Â¤Ã**telnet**Â¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÂ¤ÃÂ¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£Â¥ÂµÂ¡Â¼Â¥ÃÂ¤Â¬ÃÂ°Â°Ã®Â¤Â·Â¤ÃÂ¤ÃÂ¤ÃÂ¤Ã«Â¥ÃÂ¥Â¹Â¥ÃÂ¤ÃÃÂ¾ÃÂ°Â¤Â¬Â°ÃÂ½Ã©Â¤ÃÂ¥ÃÂ¥Ã©Â¥Ã¡Â¡Â¼Â¥Â¿Â¤ÃÂ¤Â·Â¤ÃÃÂ¿Â¤Â¨Â¤Ã©Â¤Â¬Â¤ÃÂ¤ÃÂ¤ÃÂ¤Ã«Â¤Â³Â¤ÃÂ¤ÃÃÃÂ°Â¤Â·Â¤ÃÂ¤ÃÂ¤Â·Â¤ÃÂ¤Â¡Â£Â¤Â¢Â¤Â·Â¥ÂµÂ¡Â¼Â¥ÃÂ¾Â¤Ã²Â¾ÃÂ¤Â¯Â¤ÃÂ°ÃÂ½Ã©Â¤ÃÂ¡Â¥ÃÂ¥Â³Â¥ÃÂ¥Ã«Â»ÃÃÂ¡Â¤ÃÂ¤Ã©Â»Â½Â¤ÃÂ¤ÃÂ¤Â¯Â¤Ã«Â¤Â³Â¤ÃÂ¤ÃÂ¤ÃÂ¤Ã«Â¡Â£

Â¤Â¢Â¤Â·Â¥ÂµÂ¡Â¼Â¥ÃÂ¤Â¬**target3**Â¤ÃÂ°Â°Ã®Â¤Â·Â¤ÃÂ¤ÃÂ¤ÃÂ¤Ã«Â¤ÃÂ¤Ã©Â¤ÃÂ¡Â¢Â¾Ã¥ÂµÂ¤ÃÂ¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¤ÃÂ¼Â¡Â¤ÃÂ¤Ã¨Â¤Â¦Â¤ÃÂ¤Â·Â¤ÃÂ¤Ã¢ÃÂ±Â¤Â¸Â¤Â³Â¤ÃÂ¤ÃÂ¤ÃÂ¤Ã«Â¡Â£

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zebedee 20000:target3:telnet 10000:target1:telnet
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Â¼ÃÂ°ÃÂ¤ÃÂ½ÃªÂ¡Â¢Â¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ¡Â¥ÃÂ¥Ã©Â¥Ã«Â¥ÃÂ¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥ÃÂ¡ÃÂ¤ÃÂ¤ÃÂ¤Â¦Â³ÂµÃÂ°Â¤Ã²Â»Â½Â¤ÃÂ¤ÃÂ¤ÃÂ¤Ã«Â¡Â£Â¤Â³Â¤Ã¬Â¤ÃÂ°ÃÂ¸Â¥Â¤Â»ÃÃÂªÂ¤ÂµÂ¤Ã¬Â¤Â¿Â¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥ÃÂ¤ÃÂ¤Â³Â¤ÃÂ¤ÃÂ¤Â¢Â¤Ã«Â¡Â£Â¾Ã¥ÂµÂ-Â¤ÃÃÂ£Â¤ÃÂ¤ÃÂ¡Â¥ÃÂ¥ÃÂ¥Ã©Â¥Ã«Â¥ÃÂ¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥ÃÂ¡ÃÂ¤Ã**target3**Â¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¤Ã«Â¡Â£Â¤Ã¢Â¤Â·Â¥ÂµÂ¡Â¼Â¥ÃÃÂ¦Â¤ÃÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¡Â¦Â¤ÃÂ¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥ÃÂ¤Â»ÃÃÂªÂ¤Â¬Â¤Â±Â¤Â¸Â¤ÃÂ¤ÃÂ¤Â¿Â¤Ã©Â¡Â¢Â¤Â³Â¤ÃÂ¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¤Â¬Â»ÃÃÂµÂ¤Ã¬Â¤Ã«Â¡Â£ÃÂ½ÃÂ¤ÂÂ°Ã£Â¤Â¦Â·Ã«Â²ÃÂ²ÃÂ¤Ã«Â¤Â³Â¤ÃÂ¤Â¬Â¤Â¢Â¤Ã«Â¤ÃÂ¤Â¡Â¢Â¤Â³Â¤ÃÂ³Â¤ÃÂ¤ÃÂ½Â¼Â¬Ã-Â°ÃÂ¤Â·Â¤ÃÂ¤ÃÂ¤Â·Â¤ÃÂ¤Â¡Â£ÃÂ£Â¤Â¨Â¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤Â¬Â¼Â¡Â¤ÃÂ¤Ã¨Â¤Â¦Â¤ÃÂµÂ¯ÃÂ°ÂµÂ¤Ã¬Â¤Â¿Â¤ÃÂ¤Â·Â¤Ã¨Â¤Â¦Â¡Â£

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zebedee -s target2:telnet target3 target1:daytime,telnet
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Â¤Â³Â¤ÃÂ¾Ã¬Â¹Ã§Â¤ÃÂ¡Â¢Â¾Â¥Â¤ÃÃ£Â¼Â¨Â¤Â·Â¤Â¿Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤Ã²ÂµÂ¯ÃÂ°Â¤Â¹Â¤Ã«Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¤ÃÂ¤Ã¨Â¤ÃÂ¤ÃÂ¡Â¢

20000ÃÃÂ¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÂ¤ÃÃÃÃÂ³Â¤ÃÂ¡Â¢**target3**Â¤ÃÂ¤ÃÂ¤Â¯**target1**Â¤ÃÃÃÂ¤Â·Â¤ÃÂ¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â¤ÂµÂ¤Ã¬Â¤Ã«Â¤Â³Â¤ÃÂ¤ÃÂ¤ÃÂ¤Ã«Â¡Â£ Â¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ»ÃÃÃªÂ¤ÂµÂ¤Ã¬Â¤Â¿Â¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥ÃÂ¤ÃÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ»ÃÃÃªÂ¤ÂµÂ¤Ã¬Â¤Â¿Â¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥ÃÂ¤Ã¬ÃÂ±Â¤Â¸Â¤ÃÂ¤ÃÂ¤Â¿Â»Ã¾Â¤ÃÂ¡Â¢ ÃÃÂ¿Â®Â¤ÃÂ¡ÃÂ¥ÃÂ¥ÃÂ¥Â©Â¥Ã«Â¥ÃÂ¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥ÃÂ¡ÃÂ¤ÃÂ¸Ã¾Â¤Â«Â¤Â¦Â¤Â«Â¤Ã©Â¤ÃÂ¡Â£ ÂºÂ®ÃÂ°Â¤Ã²ÃÃ²Â¤Â±Â¤Ã«Â¤Â¿Â¤Ã¡Â¤ÃÂ¤ÃÂ¡Â¢Â¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ¥ÃÂ¥Â¹Â¥ÃÂ¤Â¬Â°Â¸ÃÂ¨Â¥ÃªÂ¥Â¹Â¥ÃÂ¤ÃÂ´ÃÂ¤ÃÂ¤Ã¬Â¤Ã«Â¾Ã¬Â¹Ã§Â¤ÃÂ¡Â¢ ÃÂ¬Â¤ÂºÂºÃÂ¸Ã¥Â¤ÃÂ¤Â½Â¤Ã¬Â¤Ã²ÃÃÂ¤Â¯Â¤Ã¨Â¤Â¦Â¤ÃÂ¤Â¹Â¤Ã¬Â¤ÃÂ¤Ã¨Â¤ÃÂ¤Â¡Â£ Â¡ÃÂ¥ÃÂ¥ÃÂ¥Â©Â¥Ã«Â¥ÃÂ¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥ÃÂ¡ÃÂ¤ÃÃÂ±ÃÃÂ¤ÃÂ¡Â¢ Â¥ÃÂ¡Â¼Â¥ÃÂ»ÃÃÃªÂ¤Â¬Â¤ÃÂ¤Â«Â¤ÃÂ¤Â¿Â»Ã¾Â¤ÃÂ¤Â¿Â¤Ã¡Â¤ÃÂ¡Â¢ ÃÂ£Â¿Ã´Â¤ÃÂ¡ÃÂ¥ÃÂ¥ÃÂ¥Â©Â¥Ã«Â¥ÃÂ¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥ÃÂ¥Ã¡Â¼Â¥ÃÂ¡ÃÂ¤ÃÂ¥ÃªÂ¥Â¹Â¥ÃÂ¤Ã²Â»ÃÃÃªÂ¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤Ã¢Â¤ÃÂ¤Â«Â¡Â£ Â¾ÃÂºÃÂ¤Ã**redirect**Â¤Ã²Â»Â²Â¾ÃÂ¤Â·Â¤ÃÂ¤ÃÂ¤Â·Â¤Â¤Â¡Â£

targetÂ¥ÃÂ¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÃÂ±ÃÃÂ¤ÃÂ¡Â¢ Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÃÂ¤ÃÃÂ±ÃÂ¹Â¤ÃÂ¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã©Â¥Â¤Â¥Ã³Â¥ÃÂ¥Ã©Â¥Ã¡Â¡Â¼Â¥Â¿Â¤ÃÂ¤Â·Â¤ÃÂ¡Â¢ **tunnel** Â¥ÃÂ¡Â¼Â¥Ã¯Â¡Â¼Â¥Ã (and **serverhost**Â¤Â¬Â¤Â¢Â¤Ã«Â¡Â£ Â¤Â³Â¤Ã¬Â¤ÃÂ¤Ã¨Â¤ÃÂ¤ÃÂ¡Â¢Â¥ÂµÂ¡Â¼Â¥ÃÂ¥ÃÂ¥Â¹Â¥ÃÂ¤Ã²ÃÃÂ¼Â¨ÃÂªÂ¤ÃÂ»ÃÃÃªÂ¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤Ã¬Â¤ÃÂ¤ÂÂ¤Ã«Â¡Â£

Â¥ÂµÂ¡Â¼Â¥ÃÂ¼Ã§ÃÂ³Â¤ÃÃÃÂ³(Server−Initiated Connections)

ÃÂ¾Ã¯Â¤ÃÂ»ÃÃÃÂ¡Â¤ÃÂ¤ÃÂ¡Â¢ Â¥Â½Â¡Â¼Â¥Â¹Â¥Â·Â¥Â¹Â¥ÃÂ¥Ã Â¤Â«Â¤Ã©ÃÃÃÂ³Â¤Ã²Â¼ÃµÂ¤Â±Â¤Â¿Â»Ã¾ÃÃÂ¤ÃÂ¡Â¢ **Zebedee**Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤Ã¬Â¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÃÃÂ¤Â¹Â¤Ã«ÃÃÂ³Â¤Ã²Â³Â«Â»ÃÂ¤Â¹Â¤Ã«Â¡Â£ Â¤Â·Â¤Â«Â¤Â·Â¡Â¢**Zebedee**Â¤Ã²ÃÂ©Â¸ÃÂ¤ÃÂ¤Â¢Â¤Ã«Â¥ÃÂ¥Â¡Â¥Â¤Â¥Â¢Â¡Â¼Â¥Â¦Â¥Â©Â¡Â¼Â¥Ã«Â±ÃÂ¤Â·Â¤ÃÂ»ÃÃÃÂ¤Â¹Â¤Ã«Â¾Ã¬Â¹Ã§Â¤ÃÂ¤ÃÂ¡Â¢ ÂµÃÂ¸Ã¾Â¤ÂÂ¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤Â«Â¤Ã©Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÃÃÂ¤Â·Â¤ÃÃÃÂ³Â¤Ã²Â³Â«Â»ÃÂ¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤Ã¬Ã¬ÃÂ¾Ã¬Â¹Ã§Â¤Ã¢Â¤Â¢Â¤Ã«Â¡Â£ Â¤Â³Â¤Ã¬Â¤Ã²Â¤ÃÂ¤Â¦Â¤ÃÂ¤Â«Â¤Â«Â¤ÃÂ¾ÃÂºÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¡Â¢ **clienthost** Â¥ÃÂ¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤Ã **listenmode**Â¥ÃÂ¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤Ã²Â»Â²Â¾ÃÂ¤ÃÂ¤Â³Â¤ÃÂ¡Â£

ÃÃÃªÂ¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«(Configuration File)

Zebedee Â¤ÃÃÂ°ÂºÃ®Â¤Ã²Â¥Â³Â¥Ã³Â¥ÃÂ¥ÃÂ¡Â¼Â¥Ã«Â¤Â¹Â¤Ã«Â¤ÃÂ¤ÃÂ¡Â¢ ÃÃÃªÂ¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤Ã²Â»ÃÂ¦ÃÂ¤Ã¬Â¤ÂªÂ¤Â½Â¤Ã©Â¤Â¯Â°Ã¬ÃÂ¤ÃÂ¨Â¤Â¤Â¡Â£ÃÃÃªÂ¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤Ã²Â»ÃÃÃªÂ¤Â¹Â¤Ã«Â¤ÃÂ¤Ã Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Â©Â¥Â¤Â¥Ã³Â¥ÂªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤Ã **−f**Â¤Ã²Â»ÃÂ¤Â¦Â¡Â£Â¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤Ã(**−f**)Â¥ÂªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤ÃÂ°Ã ÃÃ¤ÃÂ½Ã¨ÃÂ½Â¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£Â½Â¾Â¤ÃÂ¤ÃÂ¡Â¢Â½Â¤Ã¬Â°ÃÂ¹ÃÂ¤ÃÂ¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Â©Â¥Â¤Â¥Ã³Â¥ÂªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤ÃÂ¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤ÃÃÃ¢ ÃÃÂ¤Ã²Â¾Â¥Â½Â±Â¤ÃÂ¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤Ã¬Â¤ÃÂ¤ÃÂ¤Ã«Â¡Â£

Â¹ÃÂ¤ÃÂ·ÃÂ¼Â°Â¤ÃÂ°ÃÂ²Â¼Â¤ÃÂ¤ÃÂ¤ÂªÂ¤ÃªÂ¡Â£

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keyword value # optional comment
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*keyword*Â¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÃÂ±Â¸Ã¬Â¤ÃÂ¤Â¢Â¤ÃªÃ§ÃÂ¸Â»ÃºÂ¾Â®ÃÂ¸Â»ÃºÂ¤ÃÃÂµÂ»Ã«Â¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£*value*Â¤ÃÃÂ±Â¸Ã¬Â¤Â«ÃÂ¸Â»Ãº ÃÃ³Â¤Â«Â¤ÃÃÂ¤Ã©Â¤Â«Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£ ÃÂ¸Â»ÃºÃ³Â¤ÃÂ¥ÃÂ¥ÃÂ¥Ã«Â¥Â¯Â¥Ã©Â¡Â¼Â¥Ã(`"Â¤Â³Â¤Ã³Â¤ÃÃÃ·Â¤Ã"`)Â¤Â«Â¥Â·Â¥Ã³Â¥Â°Â¥Ã«Â¥Â¯Â¥Ã©Â¡Â¼Â¥Ã (`'Â¤Â³Â¤Ã³Â¤ÃÃÃ·Â¤Ã'`)Â¤ÃÂ¤Â¯Â¤Â¯Â¤Ã©Â¤Ã¬Â¤Ã«Â¡Â£Â¥ÃÂ¥ÃÂ¥Ã«Â¥Â¯Â¥Ã©Â¡Â¼Â¥Ã " Â¤ÃÂ¦Â¤Ã Â¥Â·Â¥Ã³Â¥Â°Â¥Ã«Â¥Â¯Â¥Ã©Â¡Â¼Â¥Ã ' Â¤Ã¬Â¤Â¢Â¤ÃÂ¤ÃÂ¤Â¢Â¤Ã¨Â¤ÃÂ¤Â·(`"here's an example"`)Â¡Â¢Â¤Â½Â¤ÃÂµÃÂ¤Â¢Â¸ÃÂ¤Ã¨Â¤Ã«Â¡Â£ value Â¤ÃÃÃ§ÃÂ¸Â»ÃºÂ¾Â®ÃÂ¸Â»ÃºÂ¤ÃÂ°Ã£Â¤Â¤ÃÂ¶ÃÂ¨ÃÂ¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£

Â¶ÃµÃ²Â¹ÃÂ¤Ã"#"Â¤ÃÂ¤ÃÂ¤Â¸Â¤ÃÂ¤Ã«Â¹Ã(Â¤Â½Â¤ÃÂ°Â¤ÃÂ¶ÃµÃ²Â¤Ã¬Â¤Â¢Â¤ÃÂ¤ÃÂ¤Â¢ÃÂ±Â¤Â¸)Â¤ÃÃÂµÂ»Ã«Â¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£ ÃÂ¹Â¤ÃÂ¸Â»ÃºÃ³Â¤Ã "\"Â¤ÃÂ¼Â¡Â¤ÃÂ¹ÃÂ¤ÃÂ·ÃÃ³Â¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤Ã¢Â¤ÃÂ¤ÂÂ¤Ã«Â¡Â£ Â¤Â³Â¤ÃÂ¸Â»ÃºÂ¤ÃÂ½Â¼ÃµÂ®Â¤ÂµÂ¤Ã¬Â¡Â¢Â¼Â¡Â¤ÃÂ¹ÃÂ¤Ã¬Â¤Â³Â¤ÃÂ¹ÃÂ¤ÃÃÃÃ³Â¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£ 1Â¹ÃÂ¤ÃÂ¹Â¤ÂµÂ¤ÃÂ·ÃÃ³Â¹ÃÂ¤Â¢Â´Â¤Â¡ 1024 ÃÂ¸Â»ÃºÂ¤ÃÂ©Â¸ÃÂ¤ÂµÂ¤Ã¬Â¤ÃÂ¤ÃÂ¤Â«Â¤Â³Â¤ÃÂ¤ÃÃÂ°ÃÂ¡Â£ Â¹ÃÂ¤ÃÃÃÂ³Â¤ÃÂ¥Â³Â¥Ã¡Â¥Â³Â¥ÃÂ¤ÃÃÂ§Â¼Â±Â¤Ã²Â´ÃÂ¤Ã¡Â¤Â¹Â¤ÃÂ¤ÃÂ¤ÃÂ½Â¨ÃÂ½Â¤ÃÃÂ¨Â¤ÃÂ¤ÃÂ¤ÃÂ¹ÃÂ¤Â¯Â¤Ã¬Â¤Ã«Â¡Â£ Â¤Â½Â¤ÃÂ¤Â¿Â¤Â¡Â°ÃÂ²Â¼Â¤ÃÃÂ£

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server false
# This comment continues on the next line \
server true
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Â¤ÃÂ¤ÃÂ¡Â¢**server**Â¤ÃÃÃÂ¤Ã **false**Â¤ÃÂ¤ÃÂ¤Ã«Â¡Â£

Â¥ÂÂ¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÂ¤Â½Â¤ÃÂ°ÃÃÂ£Â¤ÃÂ°ÃÂ²Â¼Â¤ÃÂ½ÃÂ¤ÃÂ¤Ã«Â¡Â£
“Quick−Reference Summary”Â¤ÃÂ¤ÃÂ¡Â¢ÃÂ´Â¤ÃÂ¤ÃÂ¥Â-
Â¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÂ´ÃÂ·Ã©Â¤ÃÃÃÃ³Â¤Â¬Â¤Â¢Â¤Ã«Â¡Â£ Â¤ÃÂ¤ÃÂ¤Ã³Â¤ÃÂ¤ÃÂ¥Â-
Â¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÃÃÂ±Ã¾Â¤Â¹Â¤Ã«Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã©Â¥Â¤Â¥Ã³Â¥ÂªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤Â¬Â¤Â¢Â¤Ã«Â¤Â¬Â¡Â¢
Â¤ÃÂ¤Â«Â¤ÃÂ¤ÃÃÃÂ±Ã¾Â¤Â¹Â¤Ã«Â¥ÂªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤Â¬Â¤ÃÂ¤ÃÂ¤Â¢Â¤ÃÂ¤ÃÂ¢Â¤Â¢Â¤Ã«Â¡Â£
ÃÃÂ±Ã¾Â¤Â¹Â¤Ã«Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã©Â¥Â¤Â¥Ã³Â¥ÂªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤Â¬Â¤Â¢Â¤Ã«Â¤Ã¢Â¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¤Â½Â¤Ã¬Â¤Ã¢ÃÂ»ÂµÂ-
Â¤Â·Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£
ÂµÃÂ¤ÃÂ¡Â¢Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã©Â¥Â¤Â¥Ã³Â¥ÂªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤ÃÃÃ¦Â¤ÃÂ¤Ã
ÃÃÃÂªÂ¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«ÃÃ¢Â¤ÃÂ¥Â-
Â¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÃÃÂ±Ã¾Â¤Â¹Â¤Ã«Â¤Ã¢Â¤ÃÂ¤Â¬Â¤ÃÂ¤ÃÂ¤Ã¢Â¤ÃÂ¤Ã¢Â¤Â¢Â¤Ã«Â¡Â£
Â¤Â½Â¤Ã¬Â¤Ã©Â¤ÃÂ¤Â³Â¤ÃÂ¥Â»Â¥Â¯Â¥Â·Â¥Ã§Â¥Ã³Â¤ÃÂ°ÃÂ¸Ã¥Â¤ÃÂ½ÃÂ¤ÃÂ¤Ã«Â¡Â£

Â¥Â-
Â¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤Â¬Â¿Â¿ÂµÂ¶ÃÃ(boolean)Â¤ÃÂ½Ã±Â¤Â«Â¤Ã¬Â¤ÃÂ¤ÃÂ¤Â¿Â¤Ã©Â¡Â¢
Â¤Â½Â¤ÃÃÃÂ¤Ã"**true**“ Â¤ÃÂ¤Â¿Â¤Ã ”**false**"Â¤ÃÂ¤ÃÂ¤Â±Â¤Ã¬Â¤ÃÂ¤ÃÂ¤Ã©Â¤ÃÂ¤ÃÂ¤Â¡Â£

Â¥Â-
Â¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÃÃ¦Â¤ÃÂ¤ÃÂ¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÂ¥ÃªÂ¥Â¹Â¥ÃÂ¤ÃÂ²Â»ÃÃÂªÂ¤Â¹Â¤Ã«Â¤Ã¢Â¤ÃÂ¤Â¬Â¤Â¢Â¤Ã«Â¡Â£
Â¤Â³Â¤ÃÂ¾Ã¬Â¹Ã§Â¤ÃÂ¡Â¢Â¥ÃÂ¡Â¼Â¥ÃÃÂ¾(Â¥ÂµÂ¡Â¼Â¥ÃÂ¥Â¹ÃÂ¾)Â¡Â¢Â¥ÃÂ¡Â¼Â¥ÃÃÃÂ¹Ã¦Â¡Â¢ÃÃÂ¹Ã¦Â¤ÃÃÃÂ°ÃÂ¤Ã²
Â¥Â³Â¥Ã³Â¥ÃÂ¤Â«Â¶ÃµÃÂ²Â¤ÃÂ¶Ã¨ÃÃÂ¤ÃÂ¤Â¿Â¤Â¢Â¤ÃÂ¤Ã²Â»ÃÃÂªÂ¤Â¹Â¤Ã«Â¡Â£
ÃÃ£Â¤Â¨Â¤ÃÂ¡Â¢"telnet, ftp 5900−5903“Â¤Ã
”23,21,5900,5901,5902,5903"Â¤ÃÃÂ¹Â¤Â·Â¤Â¤Â¡Â£

Â¤ÃÂ¤Â¿Â¡Â¢Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ¤Â±Â¤ÃÂ»ÃÃÂªÂ¤Â¹Â¤Ã«Â¥Â-
Â¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤Ã¢Â¤Â¢Â¤Ã«Â¤Â·Â¡Â¢
Â¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ¤Â±Â¤ÃÂ»ÃÃÂªÂ¤Â¹Â¤Ã«Â¥ÂÂ¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤Ã¢Â¤Â¢Â¤Ã«Â¡Â£
Â¤ÃÂ¤ÃÂ¤ÃÂ¤Ã **Zebedee** Â¥ÃÂ¥Ã-
Â¥Â°Â¥Ã©Â¥Ã Â¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤Â«Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤Â«Â¤ÃÂ¤ÃÂ¤Ã©Â¤Â«Â¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂµÂ¡ÃÂ½Â¤Ã²Â¼ÃÂ¹ÃÂ¤Â·Â¡Â¢
Â¤Â½Â¤ÃÂ»Ã¾Â¤ÃÃÃÃÃÂ¤ÃÂ°Ã£Â¤Â¦ÃÃÃÂ¸Ã¾Â¤Â±Â¤ÃÂ¥ÂªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤ÃÃÂµÂ»Ã«Â¤Â¹Â¤Ã«Â¡Â£
Â¥Â¨Â¥Ã©Â¡Â¼Â¥Ã¡Â¥ÃÂ¥Â»Â¡Â¼Â¥Â¸Â¤Ã¢ÃÂ½Â¼Â¨Â¤Â·Â¤ÃÂ¤ÃÂ¤Â¡Â£
Â¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ¤ÃÂ¤Ã«Â¤Â«Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ¤ÃÂ¤Ã«Â¤Â«Â¤ÃÂ¡Â¢
server Â¥ÂÂ¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÂ·Ã¨Â¤ÃÂ¤Ã«Â¡Â£

server (Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã©Â¥Â¤Â¥Ã³Â¤ÃÂ¤Ã **−s**)
Â¤Â³Â¤Ã¬Â¤ÃÂ¡Â¢Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ¤ÃÂ¤Ã«Â¤Â«Â¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ¤ÃÂ¤Ã«Â¤Â«Â¤Ã²Â·Ã¨Â¤Ã¡Â¤Ã«Â¿Â¿ÂµÂ¶ÃÃÂ¤ÃÂ¥Â-
Â¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÂ¤Â¢Â¤Ã«Â¡Â£
Â¤Â³Â¤Ã¬Â¤Â¬Â»ÃÃÂªÂ¤ÂµÂ¤Ã¬Â¤ÃÂ¤Â«Â¤ÃÂ¤Â¿Â¾Ã¬Â¹Ã§Â¤ÃÂ¡Â¢Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ·Â¤ÃÃÂ°ÂºÃ®Â¤Â¹Â¤Ã«Â¡Â£
Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã©Â¥Â¤Â¥Ã³Â¥ÂªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤Ã **−s**
Â¥ÂªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤ÃÂ¤Â³Â¤ÃÃÃÂ¤Ã²**true**Â¤ÃÂ¤Â¹Â¤Ã«Â¤ÃÂ¤ÃÃÂ¹Â¤Â·Â¤Â¤Â¡Â£

Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÃ¬ÃÃÂ¥ÂÂ¡Â¼Â¥Ã¯Â¡Â¼Â¥Ã(Client−Only Keywords)

Â°ÃÂ²Â¼Â¤ÃÂ¥Â-
Â¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ±Â¤ÃÃÂ¬ÃÃÂ¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£

command (Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã©Â¥Â¤Â¥Ã³Â¤ÃÂ¤Ã **−e**)
Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ·Â¤ÃÃÂ°ÂºÃ®Â¤Â·Â¤ÃÂ¤ÃÂ¤ÃÂ¤Ã«Â»Ã¾Â¤ÃÂ°ÃÃÂ£Â¤Ã²Â»Ã½Â¤ÃÂ¡Â£
Â¤Â³Â¤Ã¬Â¤ÃÂ¡Â¢Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â¤ÃÃÃÃ³Â¤Â·Â¤Â¿Â¸Ã¥Â¤ÃÂµÂ¯ÃÂ°Â¤ÂµÂ¤Ã¬Â¤Ã«Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¤ÃÂ²Â¼Â¨Â¤Â¹Â¡Â£
Â¤Â³Â¤ÃÃÃÂ¤Â¬ "%d"
Â¤ÃÂ¤Â¤Â¤Â¦ÃÂ¸Â»ÃºÃ³Â¤Ã²Â´ÃÂ¤Ã³Â¤ÃÂ¤Â¤Â¤Â¿Â¤Ã©Â¡Â¢Â¼ÃÂ¹ÃÂ»Ã¾Â¤ÃÂ¥Ã-
Â¡Â¼Â¥Â«Â¥Ã«Â¥ÃÂ¡Â¼Â¥ÃÃÂ¹Ã¦Â¤ÃÃÃÂ¤ÃÃÃÂ¤Â¨Â¤Ã©Â¤Ã¬Â¤Ã« (**tunnel** Â¥Â-
Â¡Â¼Â¥Ã¯Â¡Â¼Â¥Ã Â»Â²Â¾Ã)Â¡Â£
Â¤Â³Â¤ÃÂ½Ã¨ÃÂ½Â¤Ã**sprintf**Â´ÃÂ¿Ã´Â¤Ã²Â»ÃÃÂ¤Â·Â¤ÃÂ¹ÃÂ¤ÃÂ¤Â¦Â¤ÃÂ¤ÃÂ¡Â¢

"%“Â¤ÃÂ¤Ã¨Â¤Ã«Â¥Â¨Â¥Â¹Â¥Â±Â¡Â¼Â¥ÃÂ½Ã¨ÃÂ½Â¤Â¬ÃÂ¬ÃÃÂ¤ÂµÂ¤Ã¬Â¤Ã«
(Â¤Â¹Â¤ÃÂ¤Ã¯Â¤ÃÂ¡Â¢”%“ Â¤Ã² 1 ÃÂ¸Â»ÃºÃÂ¸ÃÂ®Â¤Â¹Â¤Ã«Â¤Â¿Â¤Ã¡Â¤ÃÂ¤Ã ”%%“
Â¤Ã²Â»ÃÂ¤Â¦)Â¡Â£ Â¤ÂµÂ¤Ã©Â¤ÃÂ¡Â¢”%d“
Â¤Ã²ÃÃ³Â¤ÃÂ°ÃÂ¾Ã¥Â»ÃÃÃªÂ¤Â·Â¤Â¿Â¤Ãª ”%d"
Â°ÃÂ³Â°Â¤ÃÂ¥ÃÂ¥Â©Â¡Â¼Â¥ÃÂ¥ÃÂ¥ÃÂ»ÃÃÃªÂ»Ã
Â¤Ã²Â»ÃÃÃªÂ¤Â¹Â¤Ã«Â¤ÃÂ¡Â¢Â¤ÂªÂ¤Â½Â¤Ã©Â¤Â¯Â¥ÃÂ¥Ã-
Â¥Â°Â¥Ã©Â¥Ã Â¤ÃÂ¥Â¯Â¥Ã©Â¥ÃÂ¥Â·Â¥Ã¥Â¤Â¹Â¤Ã«Â¤ÃÂ¤ÃÂ¤Â¦Â¡Â£

Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¤Â¬ÃÃÃÂ³Â¤Ã²ÃÃÂ¤Â¸Â¤Â¿Â¤Ã©Â¡Â¢**Zebedee**Â¤Ã¢Â½ÂªÃÂ»Â¤Â¹Â¤Ã«Â¡Â£
Â¤Â³Â¤ÃÂ¥Â-
Â¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÂªÂ¤Ã¨Â¤ÃÂ¥ÂªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤Ã²Â»ÃÃÃÂ¤Â¹Â¤Ã«Â¤ÃÂ¡Â¢Â°ÃÃÃÂ¤ÃÂ¤Â¦Â¤ÃÂ¤ÃÃÂ¥ÃÂ¥Ã«Â¥ÃÂ¥Ã¦Â¡Â¼Â¥Â¹Â¥Ã¢Â¡Â¼Â¥ÃÂ¤Â¬OFFÂ¤ÃÂ¤ÃÂ¤Ã«
(**multiuse**Â»Â²Â¾Ã)Â¡Â£ **Zebedee**
Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤Â¬ÃÂ£Â¿Ã´Â¤ÃÃÃÃÂ³Â¤Ã²Â°Â·Â¤Â¦Â¾Ã¬Â¹Ã§ (**multiuse**)Â¤Ã¤Â¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÂ¥ÃªÂ¥Â¹Â¥ÃÂ¤Â¬ **tunnel**Â¥Â-
Â¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤Â«Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã©Â¥Â¤Â¥Ã³Â¤ÃÂ»ÃÃªÂ¤ÂµÂ¤Ã¬Â¤Â¿Â¾Ã¬Â¹Ã§Â¤ÃÂ¡Â¢Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¤ÃÂ¼Â«ÃÂ°ÂµÂ¯ÃÂ°Â¤Ã
Â»ÃÃÂ¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤Â¬Â¤ÃÂ¤ÃÂ¤ÃÂ¤Â¡Â£

listenmode (command−line **−l**)

ÃÂ¾Ã¯Â¤ÃÂ»ÃÃÃÂ¡Â¤ÃÂ¤ÃÂ¡Â¢
Â¥Â½Â¡Â¼Â¥Â¹Â¥Â·Â¥Â¹Â¥ÃÂ¥Ã Â¤Â«Â¤Ã©ÃÃÂ³Â¤Ã²Â¼ÃµÂ¤Â±Â¤Â¿Â»Ã¾ÃÃÂ¤ÃÂ¡Â¢
ZebedeeÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤Â¬Â¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÃÃÃÂ¤Â¹Â¤Ã«ÃÃÃÂ³Â¤Ã²Â³Â«Â»ÃÂ¤Â¹Â¤Ã«Â¡Â£
Â¤Â·Â¤Â«Â¤Â·Â¡Â¢**Zebedee**Â¤Ã²ÃÂ©Â¸ÃÂ¤ÃÂ¤Â¢Â¤Ã«Â¥ÃÂ¥Â¡Â¥Â¤Â¥Â¢Â¡Â¼Â¥Â¦Â¥Â©Â¡Â¼Â¥Ã«Â±ÃÂ¤Â·Â¤ÃÂ»ÃÃÃÂ¤Â¹Â¤Ã«Â¾Ã¬Â¹Ã§Â¤ÃÂ¤ÃÂ¡Â¢
ÂµÃÂ¸Ã¾Â¤Â-
Â¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤Â«Â¤Ã©Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÃÃÃÂ¤Â·Â¤ÃÃÃÃÂ³Â¤Ã²Â³Â«Â»ÃÂ¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤Â¬ÃÂ¬ÃÃÂ¤ÃÂ¾Ã¬Â¹Ã§Â¤Ã¢Â¤Â¢Â¤Ã«Â¡Â£

listenmodeÂ¥ÃÂ¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤Â¬Â¿Â¿Â¤ÃÂ¤Ã©Â¤ÃÂ¡Â¢
ZebedeeÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÃÂ¾ÃÃÃÃÂ³Â¤Â·Â¤Ã¨Â¤Â¦Â¤ÃÂ¤Â¹Â¤Ã«Â¤Â«Â¤Ã¯Â¤ÃªÂ¤ÃÂ¡Â¢
Â¥ÂµÂ¡Â¼Â¥ÃÂ¤Â¬ÃÃÃÂ³Â¤Ã²Â³Â«Â»ÃÂ¤Â¹Â¤Ã«Â¤ÃÂ¤Ã²ÃÃÂ¤ÃÂ¡Â£
Â¥ÂµÂ¡Â¼Â¥ÃÂ¤Â«Â¤Ã©Â¤ÃÃÃÃÂ³ÃÂµÂ¡Â¤ÃÂ¤Â¹Â¤Â°Â¤ÃÂ¤ÃÂ¼ÃµÂ¤Â±Â¤ÃÂ¤Â±Â¤Ã©Â¤Ã¬Â¤ÂºÂ¡Â¢
Â¥Â½Â¡Â¼Â¥Â¹Â¥Â·Â¥Â¹Â¥ÃÂ¥Ã Â¤Â«Â¤Ã©Â¤Â½Â¤Ã¬Â¤ÃÃÃÂ±Ã¾Â¤Â¹Â¤Ã«ÃÃÃÂ³Â¤Â¬Â¹ÃÂ¤Ã¯Â¤Ã¬Â¤Ã«Â¤ÃÂ¤ÃÃÃÃÂ¤Â¿Â¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£
Â¤Â·Â¤Â«Â¤Â·Â¤ÃÂ¤ÃÂ¤Â¬Â¤Ã©Â¡Â¢Â¤Ã¢Â¤Â·Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â¤ÃÃÃÃÂªÃÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÃÃÂªÂ¤ÃÂ¸Â¢ÃÂ¸Â¤Â¬Â¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¡Â¢
Â¤ÃÂ¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤Â«Â¤Ã©ÃÃÃÂ³Â¤ÂµÂ¤Ã¬Â¤Ã«Â¤Â«Â¤Ã¯Â¤Â«Â¤ÃÂ¤Â¿Â¤Ã¢Â¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¤Â¡Â£
Â¤Â½Â¤ÃÃÃÂ¿Â´Â¤ÃÂ¤Â¿Â¤Ã¡Â¤ÃÂ¡Â¢Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã©Â¥Â¤Â¥Ã³Â¤Â«Â¡Â¢
Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÃ**serverhost** Â¥ÃÂ¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤Â«Â¡Â¢
Â°ÃÂ½Ã©Â¤ÃÂ¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â»ÃÃÃÂ¤ÃÂ°Ã¬ÃÃ´Â¤ÃÂ¤Â·Â¤ÃÂ¡Â¢Â¥ÂµÂ¡Â¼Â¥ÃÂ¥Â¢Â¥ÃÂ¥Ã¬Â¥Â¹Â¤Ã²Â»ÃÃÂªÂ¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤Â¬Â¤ÃÂ¤Â-
Â¤Ã«Â¤Ã¨Â¤Â¦Â¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¤Â¤Ã«Â¡Â£
Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤Ã(Â¼ÃÂºÃÂ¤ÃÃÃÃÂ³Â¤Â¬)Â¤Â³Â¤Ã¬Â¤ÃÂ°Ã¬ÃÃÂ¤Â¹Â¤Ã«Â¤Â«Â³ÃÃÂ§Â¤Â·Â¤ÃÂ¡Â¢ÃÃÃÂ³Â¤ÃÃÂµÃ¶ÃÂ-
Â¤Ã²ÃÂ½ÃÃÂ¤Â¹Â¤Ã«Â¡Â£

(ÃÃµÃÃÂ¡Â§ÃÃÂ¾Ã¯Â¤Ã

Â¥Â½Â¡Â¼Â¥Â¹(1)Â¢ÂªÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥Ã(2)Â¢ÂªÂ¥ÂµÂ¡Â¼Â¥Ã(3)Â¢ÂªÂ¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥Ã

Â¤ÃÂ¤Â¤Â¤Â¦ÃÂ½Â¸Ã¾Â¤ÃÂ½Ã§ÃÃÂ¤Ãconnect(ÃÃÃÂ³ÃÃÂµÃ¡)Â¤Â¬Â¹ÃÂ¤ÃÂ¤Ã¯Â¤Ã¬Â¤Ã«Â¤Â¬Â¡Â¢Â¥ÂªÂ¥ÃÂ¥Â¹Â¥Ã³Â¥Ã¢Â¡Â¼Â¥ÃÂ¤ÃÂ¤Ã

Â¥Â½Â¡Â¼Â¥Â¹(2)Â¢ÂªÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¢Â«(1)Â¥ÂµÂ¡Â¼Â¥Ã(3)Â¢ÂªÂ¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥Ã

Â¤ÃÂ¤ÃÂ¤Ã«Â¡Â£Â¤ÃÂ¤ÃÂ¤ÃÂªÂ¡Â¢Â¥Â½Â¡Â¼Â¥Â¹Â¤Â«Â¤Ã©Â¤ÃÃÃÃÂ³Â¤ÃÃÂ°Â¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤Â«Â¤Ã©Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÃÃÃÂ³Â¤ÃÂ¹ÃÂ¤Â¯)

ÃÃÂ¼Ã¬Â¤ÃÂ¾Ã¬Â¹Ã§Â¤ÃÂ¤Â·Â¤ÃÂ¡Â¢Â¤Ã¢Â¤Â·Â¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÃÂ¾ÃÂ°Â¤Â¬"*"Â¤ÃÂ¤Ã©Â¤ÃÂ¡Â¢
Â¤ÃÂ¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¥Â¢Â¥ÃÂ¥Ã¬Â¥Â¹Â¤Â«Â¤Ã©Â¤ÃÃÃÃÂ³Â¤Ã¢Â¼ÃµÂ¤Â±Â¤ÃÂ¤Â±Â¤Ã©Â¤Ã¬Â¤Ã«Â¡Â£
Â¥ÂµÂ¡Â¼Â¥ÃÂ¤Â«Â¤Ã©Â¤ÃÃÃÃÂ³Â¤Ã²Â³ÃÂ¼ÃÂ¤ÃÂ¤Â¹Â¤Ã«Â¤Â¿Â¤Ã¡Â¤ÃÂ¤ÃÂ¡Â¢
identity checkingÂµÂ¡ÃÂ½Â¤Ã²ÃÂ»ÃÃÂ¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤Ã²Â¤ÂªÂ¤Â¹Â¤Â¹Â¤Ã¡Â¤Â¹Â¤Ã«Â¡Â£

Â¤Ã¢Â¤Â·Â°Ã¬ÃÃªÂ»Ã¾Â´ÃÃ¢Â¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤Â«Â¤Ã©Â¤ÃÃÃÃÂ³Â¤Â¬Â¤ÃÂ¤ÃÂ¤ÃÂ¡Â¢
Â¥Â½Â¡Â¼Â¥Â¹Â¥Â·Â¥Â¹Â¥ÃÂ¥Ã Â¤ÃÂ¤ÃÃÃÃÂ³Â¤ÃÃÃÃÂ¤Â¸Â¤Ã©Â¤Ã¬Â¥ÃÂ¥Ã-
Â¥Â»Â¥Â¹Â¤ÃÃÃ¦ÃÃÂ¤Â¹Â¤Ã«Â¡Â£ Â¤Â³Â¤ÃÃÃÂ¤ÃÂ»Ã¾Â´ÃÂ¤Ã**connecttimeout**Â¥Â-
Â¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÃÃÂ©Â¸Ã¦Â¤ÃÃÂ¤ÃÂ¤Ã«Â¡Â£

Â´Ã»ÃÃªÃÃÂ¤Ã300ÃÃÂ¤ÃÂ¤Â¢Â¤Ã«Â¡Â£

Â¤Â³Â¤ÃÂ¥ÃÂ¥ÃÂ¥Â»Â¥Â¹Â¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÃÂ¦Â¤ÃÃÂ°Â¤ÂÂ¤ÃÂ¤ÃÂ¤Â¤Â¤ÃÂ¤Ã**clienthost**Â»Â²Â¾ÃÂ¤ÃÂ¤Â³Â¤ÃÂ¡Â£

localsource
Â¤Â³Â¤ÃÃÃÂ¤Â¬**true**Â¤ÃÂ¤ÃÂ¡Â¢Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ¥ÃÂ¡Â¼Â¥Â«Â¥Ã«Â¥ÃÂ¥Â·Â¥Ã³Â¤ÃÃÂ¯ÃÂ¸Â¤Â·Â¤Â¿ÃÃÂ³Â¤ÃÂ¤Â±Â¤Ã²Â¼ÃµÂ¤Â±Â¤ÃÂ¤Â±Â¤Ã«Â¡Â£
ÃÃÂ¤ÃÂ¸ÃÃÂ¤ÃÂ¸ÃÂ¤Â¦Â¤ÃÂ¡Â¢Â¡ÃÂ¥Â½Â¡Â¼Â¥Â¹Â¡ÃÂ¤ÃÂ¡ÃÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¡ÃÂ¤Â¬ÃÂ±Â°Ã¬Â¤ÃÂ¥Â·Â¥Â¹Â¥ÃÂ¥Ã Â¤ÃÂ¤Â¢Â¤Ã«ÃÂ¬ÃÂ¤Â¬Â¤Â¢Â¤Ã«Â¡Â£

Â¤Â³Â¤ÃÃÃÂ¤ÃÂ¥ÃÂ¥ÃÂ¥Â©Â¥Ã«Â¥ÃÂ¤Ã**false**Â¤ÃÂ¤Â¢Â¤ÃªÂ¡Â¢Â¤ÃÂ¤ÃÂ¥ÃÂ¥Â·Â¥Ã³Â¤Â¬Â¥Â½Â¡Â¼Â¥Â¹Â¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÃÃÂ³Â¤Ã²Â¼ÃµÂ¤Â±Â¤ÃÂ¤Â±Â¤Ã«Â¡Â£

multiuse (Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã©Â¥Â¤Â¥Ã³Â¤ÃÂ¤Ã **–m**)
Â¤Â³Â¤ÃÃÃÂ¤Â¬**true**Â¤ÃÂ¤Ã(Â¥ÃÂ¥ÃÂ¥Â©Â¥Ã«Â¥ÃÂ¤ÃÂ¤ÃÂ¤Â½Â¤Â¦Â¤ÃÂ¤ÃÂ¤ÃÂ¤Â¤Â¤Ã«Â¤Â¬)Â¡Â¢
ZebedeeÂ¤ÃÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÃÂ£Â¿Ã´Â¤ÃÃÃÂ³ÃÂµÃ¡(ÃÂ±Â»Ã¾ÃÃÂ¹ÃÃÂªÂ¤ÃÃÂ¯ÃÂ¸Â¤Â·Â¤ÃÂ¤Â¢Â¤Ã¨Â¤Â¤)Â¤Ã²Â°Â·Â¤Â¤Â¡Â¢
ÃÂµÃ¡Â¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÃÃÂ¤Â·Â¤ÃÂ¡Â¢Â¿Â·Â¤Â·Â¤Â¤Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â¤Ã²ÃÃÃÂ¤Â¹Â¤Ã«Â¡Â£
ÃÂ¤Â¬**false**Â¤ÃÂ¤ÃÂ¡Â¢Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ¥Â·Â¥Ã³Â¥Â°Â¥Ã«Â¥Ã¦Â¡Â¼Â¥Â¹Â¥Ã¢Â¡Â¼Â¥ÃÂ¤ÃÃÂ°Â°Ã®Â¤Â·Â¡Â¢
Â°ÃÂ½Ã©Â¤ÃÃÃÂ³Â¤Â¬ÃÂ¤ÃÂ¸Â¤Ã©Â¤Â¬Â¤Â¿ÃÂ¾Â¸Â¥Â¤ÃÂ½Â¤ÃÂ»Â¤Â¹Â¤Ã«Â¡Â£

Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã©Â¥Â¤Â¥Ã³Â¤Ã**–m**Â¥Âª Â¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤ÃÂ¤Â³Â¤Ã¬Â¤Ã²**true**Â¤ÃÃÃÂªÂ¤Â¹Â¤Ã«Â¤ÃÂ¤ÃÃÂ¹Â¤Â·Â¤Â¤Â¡Â£
Â¸Â½Â°ÃÂ¤ÃÂ¥ÃÂ¡Â¼Â¥Â¸Â¥Ã§Â¥Ã³Â¤Ã**Zebedee**Â¤ÃÂ¤Â³Â¤Ã¬Â¤Â¬Â¥ÃÂ¥ÃÂ¥Â©Â¥Ã«Â¥ÃÂ¤ÃÂ¤Â¬
(Â¤ÃÂ¤Â«Â¤Ã©Â¡Â¢Â¤Â³Â¤ÃÂ¥ÃªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤Ã²ÃÃÃªÂ¤Â¹Â¤Ã«ÃÂ¬ÃÃÂ¤ÃÂ¤ÃÂ¤Â¤Â¤Â¬)Â¡Â¢
Â¸Ã¥ÃÂ½Â¸ÃÂ´Â¹ÃÃÂ¤ÃÂ¿Â¤Ã¡Â¤ÃÂ»Â¤ÂµÂ¤Â¬Â¤ÃÂ¤ÃÂ¤Â¤Ã«Â¡Â£

Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤Â¬ÃÂ£Â¿Ã´Â¤ÃÂ¥ÃÂ¡Â¼Â¥ÃÂ¤Ã²ÃÂ¤ÃÂ¼ÂµÂ¤Â±Â¤Ã«Â¾Ã¬Â¹Ã§Â¤ÃÂ¡Â¢
Â¤Â¿Â¤ÃÂ¤Â¨Â¤Â³Â¤Â¬Â¤Â¬**false**Â¤ÃÃÃÂªÂ¤ÂµÂ¤Ã¬Â¤ÃÂ¤ÃÂ¤ÃÂ¤Â¢Â¡Â¢
Â¼Â«ÃÂ°ÃÂªÂ¤Ã Â¥ÃÂ¥Ã«Â¥ÃÂ¥Ã¦Â¡Â¼Â¥Â¹Â¥Ã¢Â¡Â¼Â¥ÃÂ¤ÃÂ¤ÃÂ¤Ã«Â¡Â£ (**clientport** Â»Â²Â¾Ã)

serverhost
Â¤Â³Â¤Ã¬Â¤ÃÂ¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â¤Ã²ÃÃÃÂ³Â¤Â·Â¤Ã¨Â¤Â¦Â¤ÃÂ¤Â¹Â¤Ã«**Zebedee**Â¥ÂµÂ¡Â¼Â¥ÃÂ¤Â¬Â²ÃÃÂ¯Â¤Â·Â¤ÃÂ¤Â¤Â¤Ã«Â¥ÃªÂ¥Ã¢Â¡Â¼Â¥ÃÂ¥ÃÂ¥Â¹Â¥ÃÂ¤ÃÃÃÂ¾ÃÂ°Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£
Â¥ÃÂ¥Â¹Â¥ÃÂ¤ÃÃÂ¾Â¾ÃÂ¤ÃÂ¤ÃÂ¥ÃÂ¥ÃÂ¥Â©Â¥Ã«Â¥ÃÂ¤ÃÂ¤ÃÂ¤Â¤Â¤ÃÂ¤ÃÂ¡Â¢
ÃÃÃÂªÂ¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤Â«Â¥Ã³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã©Â¥Â¤Â¥Ã³ÃÂ¤ÃÂ¤ÃÂ¤Ã©Â¤Â«Â¤ÃÂ¡Â¢
ÃÂ¬Â¤Â°Â¤Â³Â¤Ã¬Â¤Ã²Â»ÃÃÂªÂ¤Â·Â¤ÃÂ¤Â±Â¤Â¬Â¤ÃÂ¤ÃÂ¤Ã©Â¤ÃÂ¤ÃÂ¡Â£

Â¥ÂµÂ¡Â¼Â¥ÃÂ¼Ã§ÃÂ³Â¤ÃÃÃÂ³Â¤Ã²Â¹ÃÂ¤ÃÂ¤Â¦Â»Ã¾Â¤ÃÂ¤Â³Â¤ÃÃÃÂ¤ÃÂ°ÃÃÂ£Â¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¡Â¢
listenmodeÂ»Â²Â¾ÃÂ¡Â£

2.0.0Â¤Ã¨Â¤ÃªÃÂ°Â¤ÃÂ¥ÃÂ¡Â¼Â¥Â¸Â¥Ã§Â¥Ã³Â¤ÃÂ¤ÃÂ¡Â¢ÃÂ±Â¤Â¸Â°ÃÃÂ£Â¤Ã**remotehost**Â¤ÃÂ¤Â¤Â¤Â¦Â¥ÂÂ¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤Â¬Â»ÃÃÂ¤ÂµÂ¤Ã¬Â¤ÃÂ¤Â¤Â¤Â¿Â¡Â£ Â¸Â¥ÃÂ½Â¸ÃÂ´Â¹ÃÂÂ¤ÃÂ¤Â¿Â¤Ã¡Â¤ÃÂ¡Â¢Â³Â¤ÃÂ¥ÂÂ¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÃÂ¸Â½Â¥ÃÂ¡Â¼Â¥Â¸Â¥Ã§Â¥Ã³Â¤ÃÂ¤ÃÂ¢ÃÂ§Â¼Â±Â¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£

tunnel
Â¤Â³Â¤Ã¬Â¤ÃÂ¡Â¢Â¥Â³Â¥ÃÂ¥Ã³Â¤ÃÃÂ¬Â¤Â±Â¤Ã©Â¤Ã¬Â¤Â¿3Â¤ÃÂ¤ÃÂ¥ÃÂ¡Â¼Â¥ÃÂ¤Â«Â¤Ã©Â¤ÃÂ¤Ã«ÃÂ¸Â»ÂºÃÃ³Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£
ÃÃ£Â¤Â¨Â¤Ã

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10000-10002:targethost:echo,telnet,daytime
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Â°ÃÂ½Ã©Â¤ÃÃ´ÃÂ¬Â¤Ã**Zebedee**Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤Â¬ÃÃÂ³Â¤Ã²ÃÂ¤ÃÂ¥ÃÂ¡Â¼Â¥ÃÃÂ¹Ã¦Â¤ÃÂ¥ÃªÂ¥Â¹Â¥ÃÂ¤ÃÃÂ¤Â¢Â¤Ã«Â¡Â£
ÃÂ³ÃÃÂ¤Â¬Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â¤ÂµÂ¤Ã¬Â¤Â¿Â¥ÃÂ¡Â¼Â¥Â¿Â¤Â¬Â¸Â¾Â¤Ã«Â¤Â¦Â¤ÃÂ¤ÂÂ¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥ÃÂ¥Â¹Â¥ÃÂ¤ÃÃÂ¾ÃÂ°Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£
Â°ÃÂ¸Â¥ÃÂ¤ÃÂ¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÂ¥ÃÂ¿Â¡Â¼Â¥Â²Â¥ÃÂ¥ÃÂ¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÂ¥ÃªÂ¥Â¹Â¥ÃÂ¤ÃÂ¤Â¢Â¤ÃªÂ¡Â¢
Â¤Â³Â¤Ã¬Â¤ÃÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤Â¬ÃÂ¤ÃÂ¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÂ¥ÃªÂ¥Â¹Â¥ÃÂ¤ÃÃÃÂ±Ã¾Â¤Â·Â¤ÃÂ¤Â¤Â¤Ã«Â¡Â£
Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥ÃÂ¤ÃÂ¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÂ¿Ã´Â¤ÃÂ°Ã¬ÃÃÂ¤Â·Â¤ÃÂ¤Â¤Â¤ÃÂ¤Â±Â¤Ã¬Â¤ÃÂ¤ÃÂ¤Ã©Â¤ÃÂ¤ÃÂ¡Â£

ÃÃÂ¼Ã¬Â¤ÃÂ¾Ã¬Â¹Ã§Â¤ÃÂ¤Â·Â¤ÃÂ¡Â¢
Â¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÂ¬Â¤ÃÂ¤ÃÂ¤ÃÂ¤Â±Â¤ÃÂ¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â»ÃÃÂ¤Â¬ÃÂ±ÃÃÂ¤ÃÃÂ¿Â¤Â¨Â¤Ã©Â¤Ã¬Â¤Ã«Â»Ã¾Â¤ÃÂ¤ÃÂ¡Â¢
Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ¥ÃÂ¡Â¼Â¥ÃÂ¥ÃªÂ¥Â¹Â¥Ã(Â¤ÃÂ¶Ã¨ÃÃÂ¤ÃªÂ¤ÃÂ¥Â³Â¥ÃÂ¥Ã³)Â¤ÃÂ¾ÃÂ¤Â¤Â¤ÃÂ¤Â¢Â¤Ã¨Â¤Â¤Â¡Â£

Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÂ¼Â«ÃÂ°ÃÂªÂ¤ÃÂ³Ã¤ÂÂ¤ÃªÃ¶Â¤ÃÂ¤Ã©Â¤Ã¬Â¤Ã«
(Â¤Â½Â¤Â·Â¤ÃÂ¡Â¢Â¤Â½Â¤ÃÂ¥ÃÂ¡Â¼Â¥ÃÃÂ¹Ã¦Â¤Ã²Â¼Â¨Â¤Â¹Â¥Ã¡Â¥ÃÂ¥Â»Â¡Â¼Â¥Â¸Â¤Â¬ÃÂ¼Ã¶Â¤ÃÃÂ½Â¼Â¨Â¤ÂµÂ¤Ã¬Â¤Ã«)
Â¤Â³Â¤Ã¬Â¤ÃÂ¸Ã¥ÃÂ½Â¸ÃÂ´Â¹ÃÂ-
Â¤ÃÂ¤Â¿Â¤Ã¡Â¤Ã**command**Â¤ÃÂ»ÃÃÂ»Ã¾Â¤ÃÂ¤Â¿Â¤Ã¡Â¤ÃÂµÃ¶Â¤Âµ
Â¤Ã¬Â¤ÃÂ¤Â¤Â¤Ã«Â¡Â£
Â¤Ã¢Â¤Â·Â¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥ÃÂ¥ÃÂ¡Â¼Â¥ÃÂ¤Ã¢Â¾ÃÃÂ¬Â¤ÂµÂ¤Ã¬Â¤Â¿Â¤Ã©Â¡Â¢Â´Ã»ÃÃªÃÃÂ¤ÃÂ¤Â·Â¤Ã**telnet**(Â¥ÃÂ¡Â¼Â¥Ã23)Â¤ÃÂ¤ÃÂ¤Ã«Â¡Â£

“ÃÂ£Â¿Ã´Â¤ÃÂ¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥Ã(Multiple Destinations)”Â¤ÃÂ½ÃÂ¤ÃÂ¤Â¿Â¤Ã¨Â¤Â¦Â¤ÃÂ¡Â¢
ZebedeeÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤Â¬Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã©Â¥Â¤Â¥Ã³Â¤ÃÂºÃÂ½Ã©Â¤ÃÂ°ÃºÂ¿Ã´Â¤ÃÂ¤Â·Â¤ÃÂ¤Ã¢
serverhostÂ¥Â-
Â¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÂ¤Ã¢Â»ÃÃªÂ¤ÂµÂ¤Ã¬Â¤ÃÂ¤Â«Â¤ÃÂ¤Â¿Â¤Ã©Â¡Â¢
ÂºÃÂ½Ã©Â¤ÃÂ¸Â«Â¤ÃÂ¤Â«Â¤ÃÂ¤Â¿Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â»ÃÃÂ¤Â«Â¤Ã©Â¼Ã¨Â¤Ã©Â¤Ã¬Â¤Ã«Â¡Â£

Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â»ÃÃÂ¤ÃÃÃÂ§ÃÂªÂ¤ÃÂ·ÃÂ¼Â°Â¤Â¬Â¤Ã¢Â¤Â¦Â¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ±Â¤Â¢Â¤Ã«Â¡Â£
Â¤Â³Â¤ÃÂ¾Ã¬Â¹Ã§Â¤ÃÂ¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥ÃÂ¥ÃÂ¥Â¹Â¥ÃÂ¤Ã"*"Â¤ÃÃÃÂ¤Â-
Â¤Â«Â¤Â¨Â¤Ã©Â¤Ã¬Â¤Ã«Â¡Â£
Â¤Â³Â¤ÃÂ¥Ã¯Â¥Â¤Â¥Ã«Â¥ÃÂ¥Â«Â¡Â¼Â¥ÃÂ·ÃÂ¼Â°Â¤ÃÂ¥ÃªÂ¥ÃÂ¥Â¹Â¥Ã³Â¥Ã¢Â¡Â¼Â¥Ã(Â¾ÃÂ°ÃÂ¤Ã**listenmode**
Â»Â²Â¾Ã)Â¤ÃÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤Ã²ÂµÂ¯ÃÂ°Â¤Â¹Â¤Ã«Â»Ã¾Â¤ÃÂ¡Â¢
Â¥ÂµÂ¡Â¼Â¥ÃÂ¡Â¼Â¤ÃÂ¥ÃÂ¥ÃÂ¥Â©Â¥Ã«Â¥ÃÂ¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥ÃÂ¤ÃÃÃÂ¤Â·Â¤ÃÂ¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«ÃÃÂ³Â¤Ã²Â¹ÃÂ¤ÃÂ¤Â¤Â¿Â¤Â¤Â»Ã¾Â¤ÃÂ»ÃÃÂ¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£
Â¸Ã¥Â¼ÃÂ¤ÃÂ¡Â¢Â¤ÃÂ¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ¤Ã¢ÃÂ¬ÃÃÂ¤ÃÂ¤Â-
Â¤Ã«Â¤Ã¨Â¤Â¦Â¤ÃÂ¥Â³Â¥Ã³Â¥ÃÂ¥Â£Â¥Â®Â¥Ã¥Â¥Ã¬Â¡Â¼Â¥Â·Â¥Ã§Â¥Ã³Â¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤Ã²Â½Ã±Â¤Â-
Â¤Â¿Â¤Â¤Â»Ã¾Â¤ÃÂ»ÃÃÂ¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£
ÃÃ£Â¤Â¨Â¤ÃÂ¡Â¢Â¤Â³Â¤ÃÂ¤Ã¨Â¤Â¦Â¤ÃÂ¤ÃÂ¤Ã«Â¡Â£

```
server false
tunnel 10000:*:daytime
tunnel 20000:*:echo
tunnel 30000:*:telnet
```

Â¤Â³Â¤Ã¬Â¤ÃÂ¡Â¢Â¼Â¡Â¤ÃÂ¤Ã¨Â¤Â¦Â¤ÃÂ·ÃÂ¤ÃÂ¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã©Â¥Â¤Â¥Ã³Â¤ÃÂ»ÃÃªÂ¤ÂµÂ¤Ã¬Â¤Â¿Â¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÃÃÂ¤Â·Â¤Ã
(Â¤Â½Â¤Ã¬Â¤Â¬Â¤ÃÂ¤ÃÂ¥ÃÂ¥Â¹Â¥ÃÂ¤ÃÂ¤Â¢Â¤Ã¬)10000ÃÂ¡Â¢20000ÃÂ¡Â¢30000ÃÂ¤ÃÂ¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÂ¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â¤Ã²ÂºÃ®ÃÂ®Â¤Â¹Â¤Ã«Â¡Â£

```
zebedee −f configfile serverhost
```

Â¥ÂµÂ¡Â¼Â¥ÃÃ¬ÃÂ¥ÂÂ¡Â¼Â¥Ã¯Â¡Â¼Â¥Ã(Server−Only Keywords)

Â°ÃÂ²Â¼Â¤ÃÂ¥Â-
Â¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ¤Â·Â¤ÃÃÂ°ÂºÃ®Â¤Â¹Â¤Ã«Â»Ã¾Â¤ÃÃÂ¬ÃÃÂ¤Â¹Â¤Ã«Â¡Â£

clienthost (command−line **−c**)
clienthostÂ¤Â¬Â»ÃÃªÂ¤ÂµÂ¤Ã¬Â¤ÃÂ¤Â¤Â¤Ã«Â¤ÃÃÂ¡Â¢
Â¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ¤Â¹Â¤Â°Â¤ÃÂ¤Â½Â¤ÃÂ¥ÃÂ¥Â¹Â¥Ã(Â¤Ã**serverport**Â¤ÃÂ»ÃÃªÂ¤ÂµÂ¤Ã¬Â¤Â¿Â¥ÃÂ¡Â¼Â¥Ã)Â¤ÃÃÃÂ³Â¤Â·Â¤Ã¨Â¤Â¦Â¤ÃÂ¤Â¹Â¤Ã«Â¡Â£
Â¤Â½Â¤ÃÂ¥Â¢Â¥ÃÂ¥Ã¬Â¥Â¹Â¤ÃÂ¤ÃÂ¡Â¢Â¥ÃªÂ¥ÃÂ¥Â¹Â¥Ã³Â¥Ã¢Â¡Â¼Â¥Ã(**listenmode**Â»Â²Â¾Ã)Â¤ÃÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤Â¬ÂµÂ¯ÃÂ°Â¤ÂµÂ¤Ã¬Â¤ÃÂ¤Â¤Â¤ÃÂ¤Â±Â¤Ã¬Â¤ÃÂ¤ÃÂ¤Ã©Â¤ÃÂ¤Â¤Â¡Â£
Â¤ÃÂ¤ÃÂ¤Â¿Â¤ÃÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ¤ÃÃÃÂ³Â¤Â¬Â³ÃÃÂ©Â¤Â·Â¤Â¿Â¤Ã©Â¡Â¢Â¥ÃÂ¥Ã-
Â¥ÃÂ¥Â³Â¥Ã«Â¤ÃÃÃÂ¾Ã¯Â¤ÃÂ¤ÂªÂ¤ÃªÂ¤ÃÂ¾Ã°ÃÂ³Â¸Ã²Â´Â¹Â¤Ã²Â¹ÃÂ¤ÃÂ¤Â¦Â¡Â£

Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ¤Ã¨Â¤ÃÂ¤ÃÃÃÂ³Â¤Â¬Â¼ÃµÂ¤Â±Â¤ÃÂ¤Â±Â¤Ã©Â¤Ã¬Â¤Ã«Â¤Â¿Â¤ÃÂ¤ÃÂ¡Â¢
Â¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÃÂ¿ÃÃÂ¦Â¤ÃÃÃÂ³Â¤Ã²Â»Ã®Â¤ÃÂ¤Ã«Â¡Â£
ÃÃÂ³Â¤Â¬Â°Ã¬ÃÃªÂ¤ÃÂ»Ã¾Â´ÃÃ¢Â¤ÃÂ¼ÃµÂ¤Â±Â¤ÃÂ¤Â±Â¤Ã©Â¤Ã¬Â¤ÃÂ¤Â¤Â¤ÃÂ¡Â¢
(Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¦Â¤ÃÃÃÂ³Â¤Ã²)ÃÂ¤Â¸Â¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ½ÂªÃÂ»Â¤Â·Â¸Â½ÂºÃÂ¤ÃÂ¥Â¢Â¥Â¯Â¥ÃÂ¥Â£Â¥ÃÂ¤ÃÂ¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â¤ÃÃÂ´Â¤ÃÃÃÂ¤Â¸Â¤Ã©Â¤Ã¬Â¤Ã«Â¡Â£
Â¤Â³Â¤ÃÃÃÂ¤ÃÂ»Ã¾Â´ÃÂ¤Ã**connecttimeout**Â¥Â-
Â¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÃÃ©Â¸Ã¦Â¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£
Â´Ã»ÃÃªÃÃÂ¤Ã300ÃÃÂ¤ÃÂ¤Â¢Â¤Ã«Â¡Â£

ZebedeeÂ¼Â«Â¿ÃÂ¤ÃÂ¡Â¢ Â¡ÃÂµÃÂ¸Ã¾Â¤ÂÂ¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â¡ÃÂ¤ÃÂ¥Â»Â¥ÃÂ¥ÃÂ¥Â¢Â¥ÃÂ¥ÃÂ¤ÃÂ¤ÃÂ¿Â¤Ã¡Â¤ÃÂ¡Â¢ Â¥ÃÂµÂ¡Â¼Â¥ÃÂ¡Â¼Â¤ÃÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤Ã²Â¶Â¨ÃÂ´Â¤Â·Â¤ÃÂµÂ¯ÃÂ°Â¤ÃµÂ¤Â»Â¤Ã«Â¼ÃªÃÃÂ¤ÃÃÃ³Â¶Â¡Â¤Â·Â¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¤Ã³Â¤ÃÂ¤ÃÃÃÂ°ÃÂ¤ÃÂµÂ¤Ã¬Â¤ÃÂ¿Â¤ÃÂ¤Â¡Â£ Â¤Â½Â¤ÃÂ¤ÃÂ¿Â¤Ã¡Â¤ÃÂ¤ÃÂ¡Â¢Â¤ÃÂ¤Ã³Â¤Ã©Â¤Â«Â¤ÃÂ¡ÃÃÂ°Ã¨Â³Â°Â¡ÃÂ¤ÃÂ¥Â¡Â¥Â«Â¥ÃÂ¥Â°Â¥Ã Â¤Â¬ÃÂ¬ÃÃÂ¤ÃÂ¤Â¢Â¤Ã«Â¡Â£

redirect (command−line **−r**)

Â¤Â³Â¤ÃÂ¥ÂÂ¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤Â¬Â¥ÃªÂ¥ÃÂ¥Â¤Â¥ÃÂ¥Â¯Â¥ÃÂ¤Â¹Â¤Ã«Â¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÂ¥ÃªÂ¥Â¹Â¥ÃÂ¤ÃÂ¤Â¢Â¤Ã«Â¡Â£ (ÃÃ£ "telnet,ftp, 5900−5910") Â¤ÃÂ¢Â¤Â· **redirect** Â¥ÂÂ¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤Â¬Â»ÃÃÂªÂ¤ÂµÂ¤Ã¬Â¤ÃÂ¤Â¤Â¾Ã¬Â¹Ã§Â¤ÃÂ¡Â¢ Â¤ÃÂ¤ÃÂ¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÂ¤ÃÂ¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«ÃÃÂ³ÃÂµÃ¡Â¤Â¢Â¼ÂµÂ¤Â±ÃÃÂ¤Â±Â¤Ã©Â¤Ã¬Â¤Ã«Â¡Â£ Â¤Â³Â¤ÃÃÂ½ÃÂ¡(**redirect**Â¤ÃÂ²Â»ÃÃÂªÂ¤Â·Â¤ÃÃÂ¤ÃÂ¤ÃÂ³Â¤ÃÃ)Â¤ÃÂ¥ÃÂ¥Â¹Â¥ÃÃÂ¦Â¤ÃÂ¤ÃÃÃÃÃÂ¸Â¤ÃÂ¤ÃÂ¬Â¡Â¢ Â¥Â»Â¥ÂÂ¥ÃÂ¥ÃªÂ¥ÃÂ¥Â£Â¡Â¼ÃÃÂ¤ÃÂ¤ÃÂ¥ÃªÂ¥Â¹Â¥Â¯Â¤Â¬Â¤Â¢Â¤Ã«Â¤ÃÂ¤ÃÂ¡Â¢ Â¤ÃÂ¢Â¤Â·Â²ÃÃÂ½Â¤ÃÂ¤ÃÃ©Â¤Ã(Â¤Â³Â¤ÃÂ¥ÂÂ¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤Ã)ÃÃÂ¼Â¨ÃÂªÂ¤ÃÂµÃ¶Â²ÃÂ¤Â¹Â¤Ã«Â¥ÃÂ¡Â¼Â¥ÃÂ¤Ã²Â»ÃÃÂªÂ¤Â¹Â¤ÃÂ¤ÂÂ¤ÃÂ¤Â¢Â¤Ã«Â¡Â£

Â¤Â³Â¤ÃÂ¥ÂÂ¡Â¼Â¥Ã¯Â¡Â¼Â¥Ã(Â¤ÃÂ¤Â¿Â¤Ã**−r**Â¥ÃªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³)Â¤ÃÃÂ£Â¿Ã´Â»ÃÃÂªÂ¤ÂµÂ¤Ã¬Â¤ÃÂ¤Â¢Â¤Ã¨Â¤ÃÂ¤Â¡Â£Â¤Â³Â¤ÃÂ¾Ã¬Â¹Ã§Â¤ÃÂ¡Â¢ Â¤Â½Â¤ÃÂ¤Â¦Â¤ÃÂ¤ÃÂ¤Ã¬Â¤Â«Â¤ÃÂ¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÂ»ÃÃÂªÂ¤ÂµÂ¤Ã¬Â¤ÃÂ¤ÃÂ¤Ã¬Â¤ÃÂ¥ÃªÂ¥ÃÂ¥Â¤Â¥ÃÂ¥Â¯Â¥ÃÂ¤Â¬ÂµÃ¶Â²ÃÂ¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£

target

Â¤Â³Â¤Ã¬Â¤ÃÂ¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥ÃÂ¥ÃÂ¥Â¹Â¥ÃÂ¤Ã²Â»ÃÃÂªÂ¤Â¹Â¤Ã«Â¡Â£ Â¤ÃÂ¤Â¿Â¡Â¢Â¥ÂµÂ¡Â¼Â¥ÃÂ¤Â¬Â¥ÃªÂ¥ÃÂ¥Â¤Â¥ÃÂ¥Â¯Â¥ÃÂ¤Â·Â¤Â¿Â¥ÃÂ¡Â¼Â¥Â¿Â¤Ã²Â¼ÂµÂ¤Â±ÃÃÂ¤Â±Â¤Ã«Â¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÂ¥ÃªÂ¥Â¹Â¥ÃÂ¤ÃÂ¢Â»ÃÃÂªÂ¤ÃÂ¤ÂÂ¤Ã«Â¡Â£ Â¥Â³Â¥ÂÂ¥Ã³Â¤ÃÂ¶Ã¨ÃÂ¤Ã©Â¤Ã¬Â¤Â¿Â¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥ÃÂ¥ÃÂ¥Â¹Â¥ÃÂ¤ÃÃÂ¾ÃÂ°Â¤ÃÂ¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÂ¥ÃªÂ¥Â¹Â¥ÃÂ¤ÃÂ»ÃÃÂªÂ¤Â¹Â¤Ã«Â¡Â£ ÃÃ£Â¤Â¨Â¤ÃÂ¼Â¡Â¤ÃÂ¤Â¨Â¤Â¦Â¤ÃÂ¤ÃÂ¤Ã«Â¡Â£

```
target www.winton.org.uk:http,ftp
```

Â¤Ã¢Â¤Â·Â¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÂ¥ÃªÂ¥Â¹Â¥Ã(Â¤ÃÂ¥Â³Â¥ÂÂ¥Ã³)Â¤Â¬Â¾ÃÃÂ¬Â¤ÂµÂ¤Ã¬Â¤ÃÂ¤ÃÂ¤ÃÂ¿Â¤Ã©Â¡Â¢ Â¥ÃªÂ¥ÃÂ¥Â¤Â¥ÃÂ¥Â¯Â¥Â·Â¥Ã§Â¥Ã³Â¤ÃÃÃÂµÃ¡Â¤Ã**redirect**ÃÂ¸Â¤ÃÂ»ÃÃÂªÂ¤Ã(Â¤ÃÂ¢Â¤Â·Â¤Â¢Â¤Ã¬Â¤Ã)ÃÃ©Â¸Ã¦Â¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£

Â¤Â³Â¤ÃÂ¥ÂÂ¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÃÂ±Â¤Â¸Â·ÃÂ¼Â°Â¤ÃÂ¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã©Â¥Â¤Â¥Ã³Â¤ÃÂ°Â¿Ã´Â¤ÃÃÂ±Â¤Â¸Â°ÃÃ£Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£ (“ÃÃ£Â¿Ã´Â¤ÃÂ¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥Ã(Multiple Destinations)”Â»Â²Â¾Ã)Â¡Â£ Â¤Â³Â¤Ã¬Â¤ÃÂ²Â¿Â²Ã³Â·Â«Â¤ÃªÃÃÂ¤Â·Â¤ÃÂ¤Â¢Â¤Ã¨Â¤Â¡Â£ Â¤Â³Â¤ÃÂ¥ÂÂ¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÂ¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã©Â¥Â¤Â¥Ã³Â¤Â²ÃÃÂ¤Â·Â¤ÃÂ°ÃÂ¸Â¥ÃÂ¤ÃÂ¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥ÃÂ¤Â¬Â¡Â¢ Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤Â¬Â°Â¸ÃÃ¨Â¤ÃÂ¤Â·Â¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ¥ÃÂ¥Â¹Â¥ÃÃÂ¾Â¤Â²Â»ÃÃÂªÂ¤Â·Â¤Â¿Â»Â¾Â¤ÃÂ¡Â¢ Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â¤ÃÃÃÃªÃÃÂ¤ÃÂ¤ÃÂ¤Ã«Â¡Â£

Â°ÂµÂ½ÃÂ¤ÃÂ°ÃÂ¹Ã¦Â²Â½Â´ÃÃÂ¢Â¤ÃÂ¥ÃÂ¡Â¼Â¥Ã¯Â¡Â¼Â¥Ã(Compression and Encryption Keywords)

Â°ÃÂ²Â¼Â¤ÃÂ¥ÂÂ¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÂ¡Â¢Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«ÃÂ¢Â¤Ã²ÃÂ®Â¤Â¬Â¤Ã«Â¥ÃÂ¡Â¼Â¥Â¿Â¤ÃÂ°ÂµÂ½ÃÂ¤ÃÂ°ÃÂ¹Ã¦Â²Â½Â¤Ã²ÃÂ©Â¸Ã¦Â¤Â¹Â¤Ã«Â¡Â£ Â¤Â³Â¤Ã¬Â¤Ã©Â¤ÃÂ¡Â¢Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ¤ÃÂ¤Ã©Â¤ÃÂ¤Ã¢Â»ÃÃÂ¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£

compression (Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã©Â¥Â¤Â¥Ã³Â¤ÃÂ¤Ã **−z**)

Zebedee Â¤ÃÂ°ÂµÂ½ÃÃÂ½Â¼Â°Â¤ÃÂ¤Â·Â¤Ã **zlib** Â¤ÃÂ²Â¥ÂµÂ¥ÃÂ¡Â¼Â¥ÃÂ¤Â¹Â¤Ã«Â¡Â£ Â¤Â½Â¤Â·Â¤ÃÂ¡Â¢Â¤Â¢Â¤Â·Â¥Â³Â¥Ã³Â¥ÃÂ¥ÃÂ¤Â¥Ã«Â»Ã¾Â¤ÃÃÂ¸Ã°Â¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¤Ã¬Â¤Ã**bzip2**Â¤Ã¢Â¥ÂµÂ¥ÃÂ¡Â¼Â¥ÃÂ¤Â¹Â¤Ã«Â¡Â£ Â¤Â³Â¤ÃÂ¥Â-

Â¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÂ°ÂµÂ½ÃÂ¤ÃÃ½Â¼Â°Â¤ÃÂ°ÂµÂ½ÃÂ¥Ã¬Â¥ÃÂ¥Ã«Â¤Ã²Â»ÃÃªÂ¤Â¹Â¤Ã«Â¡Â£
Â¤Â³Â¤ÃÃÂ¤ÃÂ·ÃÂ¼Â°Â¤Ã *type:level* Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£*type* Â¤Ã `"zlib“` Â¤Ã
`”bzip2"`Â¤ÃÂ¤ÃÂ¤ÃÂ¤Ã©Â¤Â«Â¡Â¢*level*
Â¤Ã0Â¤Â«Â¤Ã©9Â¤ÃÃÂ°Â¿Ã´Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£
Â¥ÃÂ¥Ã¬Â¥ÃÂ¥Â£Â¥ÃÂ¥Â¯Â¥Â¹Â¤ÃÂ¤Â·Â¤ÃÃÂ°Â¿Ã´Â¤ÃÂ¤Â±Â¤ÃÂ¾Ã¬Â¹Ã§Â¤ÃÂ¡Â¢**zlib**Â¤Â¬ÃÂªÃ²Â¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£

level Â¤ÃÂ»ÃÃÂ²ÃÃ½Â¤ÃÂºÃÃ§Â¤ÃÂ°ÂµÂ½ÃÂ¥Ã¬Â¥ÃÂ¥Ã«Â¤Ã²ÃÃÃªÂ¤Â¹Â¤Ã«
(9Â¤Â¬ÂºÃÃ§Â¤Ã0Â¤Â¬Â°ÂµÂ½ÃÂ¤ÃÂ¤Â·)Â¡Â£
Â¼ÃÂºÃÂ¤ÃÂ»ÃÃÂ¤ÂµÂ¤Ã¬Â¤Ã«Â°ÂµÂ½ÃÂ¥Ã¬Â¥ÃÂ¥Ã«Â¤ÃÂ¡Â¢Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÃÃÂ¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÃÃÂ¤ÃÂºÃÂ¾Â®ÃÃÂ¤ÃÂ¤Â¢Â¤Ã«Â¡Â£
Â¤Â³Â¤ÃÃÃÃÂªÂ¤ÃÂ¤ÃÂ¡Â¢(0Â°ÃÂ³Â°Â¤Ã)**bzip2**Â¥Ã¬Â¥ÃÂ¥Ã«Â¤ÃÂ¤ÃÂ¤Â«Â¤ÃÂ¤Ã«**zlib**Â¥Ã¬Â¥ÃÂ¥Ã«Â¤ÃÃÃÂ¤Ã¨Â¤ÃªÂ¾Ã¥Â¤ÃÂ¤Â¢Â¤Ã«Â¤ÃÂ¤ÃÂ¤ÃÂ¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£
Â½Â¾Â¤ÃÂ¤ÃÂ¡Â¢Â¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ¤Â¤Â°Â¤Ã¬Â¤Â«Â¤Â¬**bzip2**Â¥Ã¬Â¥ÃÂ¥Ã«Â¤Ã²Â¥ÂµÂ¥ÃÂ¡Â¼Â¥ÃÂ¤Â·Â¤ÃÂ¤Â¤ÃÂ¤Â±Â¤Ã¬Â¤ÃÂ¡Â¢
Â¥ÃÂ¥ÃÂ¥ÃÂ¥Â³Â¥Ã«Â¤Ã**zlib**Â¤Ã²ÃÂªÃ²Â¤Â¹Â¤Ã«Â¡Â£
Â¥ÃÂ¥ÃÂ¥Â©Â¥Ã«Â¥ÃÂ¤ÃÂ°ÂµÂ½ÃÂ¥Ã¬Â¥ÃÂ¥Ã«Â¤Ã`"zlib:6"`Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£

bzip2Â°ÂµÂ½ÃÂ¤ÃÃÂ°ÂºÃ®ÃÃ½Â¼Â°Â¤ÃÂ¥ÃÂ¥ÃÂ¥ÃÂ¥Â¡Â¡Â¼Â¥ÂµÂ¥Â¤Â¥ÂºÂ¤ÃÂ¤Â¿Â¤Ã¡Â¤ÃÂ¡Â¢
bzip2Â¤ÃÃÂ¢ÃÂ³ÃÂªÂ¤ÃÂ¥ÃÂ¡Â¼Â¥Â¿Â¤ÃÂ¥Â¹Â¥ÃÂ¥ÃªÂ¡Â¼Â¥Ã Â¤Â¬ÃÂ®Â¤Â¬Â¤Ã«Â¾Ã¬Â¹Ã§Â¤ÃÂ¤ÃÂ¤Â±Â»ÃÂ¤Â¦Â°ÃÃÂ£Â¤Â¬Â¤Â¢Â¤Ã«Â¡Â£
ÃÃÂ¾Ã¯Â¤Ã**telnet**Â¥Â»Â¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤ÃÂ¤Ã¨Â¤Â¦Â¤ÃÂ¡Â¢Â¾Â®Â¤ÂµÂ¤ÃÃÂ¾ÃÂ·Â¤ÃÂ¤Ã**zlib**Â¤ÃÃÃ½Â¤Â¬ÃÂ-
ÃÃ½Â¤Â¬Â¤Ã¨Â¤Â¤Â¡Â£
Â¤ÃÂ¤ÃÂ¤Ã©Â¤Â¬Â¤Â¢Â¤ÃÂ¤Â¿Â¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¤Ã¨Â¤Â¯ÃÂ¯Â¤Â¯Â¤Â«Â¤ÃÂ¡Â¢Â¼Ã¸Â³Â¤Â·Â¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¤Â¯Â¤Â«Â¤Ã©Â¤ÃÂ¤ÃÂ¤ÃÂ¤Ã-
Â¤Â¦Â¡Â£
Â²ÃÂ¤Â¨Â¤ÃÂ¡Â¢Â¥ÃÂ¥ÃÂ¥ÃÂ¥Â¡Â¡Â¼Â¥ÂµÂ¥Â¤Â¥ÂºÂ¤Â¬Â¾Â®Â¤ÂµÂ¤ÃÂ¤ÃÂ¤ÃÂ¡Â¢**bzip2**Â¤Ã1Â¤Ã¨Â¤ÃªÂ¾Ã¥Â¤Â«Â¤Ã©Â¤ÃÃÃÂ¤Ã«Â¤Â¢Â¤ÃÂ¤Â¬Â¤ÃÂ¤Â¡Â£
ZebedeeÂ¤ÃÂ¤Â³Â¤Â¬Â¤Ã¨Â¤ÃªÂ¾Ã¥Â¤ÃÃÃÂ¤ÃÂ¤Â³Â¤ÃÃÃÂ¤ÃÃÃÂ¹Â¹Â¤Â¹Â¤Ã«Â¡Â£

verbosity levelÂ¤Ã²2Â°ÃÂ¾Ã¥Â¤ÃÂ¤Â¹Â¤Ã¬Â¤ÃÂ¡Â¢
ÃÃÂ³Â¤Â¬Â½ÂªÃÂ»Â¤Â·Â¤Â¿Â»Ã¾Â¤ÃÂ´Ã°ÃÃÂªÂ¤ÃÃ½Â·ÃÃÂ¤Â¬Â¥ÃÂ¥ÃªÂ¥Ã³Â¥ÃÂ¥Â¢Â¥Â¦Â¥ÃÂ¤ÂµÂ¤Ã¬Â¤Ã«Â¤ÃÂ¤ÃÂ¡Â¢
Â¤ÃÂ¤Ã¬Â¤ÃÂ¤Â±Â°ÂµÂ½ÃÂ¤Â¬ÃÂ-
Â¸ÃºÂ¤ÃÂ¤ÃÂ¤Â¿Â¤Â«ÃÂµÂ³ÃÂ¤ÃÃÂ¤Ã«Â¤Â³Â¤ÃÂ¤Â¬Â¤ÃÂ¤ÃÂ¤Ã«Â¡Â£
ÃÂ£Â¤Â¨Â¤ÃÂ¡Â¢

```
 zebedee(232/210):   read 166 bytes (265 expanded) in 3 messages
 zebedee(232/210):   wrote 20969 bytes (30499 expanded) in 247 messages
```

generator

Â¤Â³Â¤Ã¬Â¤ÃÂ¡Â¢Diffie−HellmanÂ¥Â-
Â¡Â¼Â¸Ã²Â´Â¹Â¤Ã“genera-
tor”Â¤ÃÂ¡Â¢16Â¿ÃÂ¿Ã´Â¤ÃÃÂ¸Â»ÃºÃ³Â¤ÃÂ»ÃÃªÂ¤Â¹Â¤Ã«Â¡Â£
Â¥ÃÂ¥ÃÂ¥Â©Â¥Ã«Â¥ÃÂ¤ÃÃ“2”Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£
Â¤ÃÂ¤Ã³Â¤ÃÂ¤Ã³Â¤ÃÂ¤Â«Â¤Ã¯Â¤Â«Â¤Ã©Â¤ÃÂ¤Â±Â¤Ã¬Â¤ÃÂ¡Â¢
Â²Â¼Â¼ÃªÂ¤ÃÂ¤ÃÂ¤Â¤Â¸Â¤Ã©Â¤ÃÂ¤ÃÂ¤ÃÃ½Â¤Â¬Â¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÃÂ¤Â¦Â¡Â£

keygencommand

Â¤Â³Â¤ÃÂ¥ÃÂ¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤Â¬Â»ÃÃªÂ¤ÂµÂ¤Ã¬Â¤Ã«Â¤ÃÂ¡Â¢
Â¤Â³Â¤ÃÃ(Â¥Ã³Â¥ÃÂ¥Ã³Â¥ÃÃÂ¸Â»ÃºÃ³)Â¤Â¬ÃÃ«Ã©Â¸Â°Â¤Ã²ÃÂ¸ÃÂ®Â¤Â¹Â¤Ã«Â¤Â¿Â¤Ã¡Â¤ÃÂ»ÃÃÂ¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£
Â¤Â½Â¤ÃÂ¥Ã³Â¥ÃÂ¥Ã³Â¥ÃÂ¤ÃÃÂ¸Â½Ã Â½ÃÃÃÂ¤Ã1Â¹Â¤Ã16Â¿ÃÂ¿Ã´Â¤Ã²Â½ÃÃÂ¤ÃÂ·Â¤ÃÂ¤Â¯Â¤ÃÂ¤ÃÂ¤ÃÂ¤Ã©Â¤ÃÂ¤ÃÂ¤Â¡Â£
Â¤Â³Â¤ÃÂ¹ÃÂ¤ÃÂ¾Â¯Â¤Â¯Â¤ÃÂ¤Â¢10Â·Â¥Â¤Ã16Â¿ÃÂ¿Ã´Â¤ÃÂ¤Â¢Â¤Ã«Â¤Â³Â¤ÃÂ¡Â£

keygenlevel

Â¤Â³Â¤Ã¬Â¤Ã0Â¤Ã2Â¤ÃÂ´ÃÂ¤ÃÃÂ°Â¿Ã´Â¤ÃÂ¡Â¢**Zebedee**Â¤ÃÂ»ÃÃÂ¤Â¹Â¤Ã«ÃÃ«ÃÂ©Â¸Â°ÃÂ¸ÃÂ®Â¤ÃÂ¶Â¯ÃÃÂ¤Ã²Â·Â¨ÃÃªÂ¤Â¹Â¤Ã«Â¡Â£
Â¥ÃÂ¥ÃÂ¥Â©Â¥Ã«Â¥ÃÂ¤Ã2(Â°ÃÂ¶Â¯)Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£ÃÃÂ³Â»Ã¾Â¤ÃÂ¥ÃÂ¥ÃÂ¥Â©Â¡Â¼Â¥ÃÂ¥Ã³Â¥Â¹Â¤Â¬ÃÃÂ¤Ã¨Â¤Â¬Â¤Â¿Â¤Â¤Â¾Ã¬Â¹Ã§Â°ÃÂ³Â°Â¤ÃÂ¤ÃÂ¡Â¢
Â°Ã¬ÃÃÂªÂ¤ÃÂ¤ÃÂ¤Â³Â¤Ã¬Â¤Ã²ÃÂ¹Â¹Â¤Â·Â¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¦Â¤Â¬Â¤Ã¨Â¤ÃÂ¡Â£

Â´ÃÂ±Â¤ÃÂ¸ÃÂ¤ÃÂ¤ÃÂ¡Â¢UNXIÂ·ÃÂ¤ÃÂ¥Â·Â¥Â¹Â¥ÃÂ¥Ã Â¤ÃÂ¤ÃÂ¥Ã¬Â¥ÃÂ¥Ã«2Â¤ÃÂ¥Â-
Â¡Â¼ÃÂ¸ÃÂ®Â¤ÃÂ¥ÃÂ¡Â¥Ã«Â¥ÃÂ¥ÂºÂ¥Ã Â¤ÃÂ¡Â¢ Â²ÃÃ½Â¤ÃÂ¤Â¢Â¤Ã¬Â¤Ã
`/dev/random` Â¤Ã²Â»ÃÃÂ¤Â¹Â¤Ã«Â¡Â£
Â¤Â·Â¤Â«Â¤Â·Â¤ÃÂ¤Ã¬Â¤Ã©Â¡Â¢Â¤Â¢Â¤ÃÂ¤ÃªÂ¤ÃÂ¤Â¢ÃÂ¿Â¤Â¯ÃÃÃÂµÂ¡Â¤Ã²ÃÂ¢ÃÂ³ÃÂªÂ¤ÃÂ¤Â³Â¤ÃÂ¥ÃÂ¥ÃÂ¥ÃÂ¤Â¥Â¹Â¤ÃÃÃÂ¤Â·Â¤ÃÂ¹ÃÂ¤ÃÂ¦Â¤ÃÂ¡Â¢
Â¥Â«Â¡Â¼Â¥ÃÂ¥Ã«Â¤Â¬ÃÂ¬ÃÃÂ¤Ã“Â¥Â¨Â¥Ã³Â¥ÃÂ¥ÃÂ¥ÃÂ¡Â¼”Â¤Ã²Â¤Â«Â¤Â-
Â½Â¸Â¤Â¡Â¤Â«Â´ÃÂ¡Â¢ Â¥ÃÂ¥ÃÂ¥Â»Â¥Â¹Â¤Â¬Â¥ÃÂ¥Ã-
Â¥ÃÂ¥Â¯Â¤ÂµÂ¤Ã¬Â¤Â«Â²ÃÃ½ÃÂ-
Â¤Â¬Â¤Â¢Â¤Â«(Â¤Â½Â¤Ã¬Â¤Â¬Â¿Ã´ÃÂ¤ÃÂ¤ÃÂ¤Â«Â¤Â³Â¤ÃÂ¤Â¢Â¤Â¢Â¤Ã«)Â¡Â£

/dev/randomÂ¤Â¬Â»ÃÃÃÂ¤ÃÂ¤ÂÂ¤ÃÂ¤Â¤Â¾Ã¬Â¹Ã§Â¤Ã¤ Â¥Ã¬Â¥ÃÂ¥Ã«Â¤Â¬1Â¤ÃÂ¥Â»Â¥ÃÂ¥ÃÂ¤ÂµÂ¤Ã¬Â¤Â¿Â¾Ã¬Â¹Ã§Â¤ÃÂ¡Â¢ /procÂ¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¥Â·Â¥Â¹Â¥ÃÂ¥Ã Â¤ÃÂ¸Â½Â°ÃÂ¤ÃÃ¢ÃÃÂ¤Â¬(Â¤Ã¢Â¤Â·Â¤Â¢Â¤Ã¬Â¤Ã)Â»ÃÃÃÂ¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£ Â¥Ã¬Â¥ÃÂ¥Ã«0Â¤ÃÂ¤ÃÂ¸Â½Â°ÃÂ¤ÃÂ¥ÃÂ¥Ã-Â¥Â»Â¥Â¹Â¤ÃÂ¤Â¢Â¤Ã«Â¾Ã°ÃÃ³Â¤ÃÂ¤Â±Â¤Â¬Â»ÃÃÃÂ¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£

WindowsÂ¾Ã¥Â¤ÃÂ¥Â·Â¥Â¹Â¥ÃÂ¥Ã Â¤ÃÂ¤ÃÂ¡Â¢Â¸Â½Â°ÃÂ¤ÃÂ¤ÃÂ¤Â³Â¤ÃÂ¡Â¢ Â¥Â-Â¡Â¼ÃÂ¸ÃÂ®Â¶Â¯ÃÃÂ¤ÃÂ¥Ã¬Â¥ÃÂ¥Ã«Â¤Â´Â¤ÃÂ¤ÃÂ°Ã£Â¤Â¤Â¤ÃÂ¤ÃÂ¤Â¯Â¡Â¢ Â¤Â³Â¤ÃÂ¥ÃÂ¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÂ¼ÃÂºÃÂ¤ÃÂ¤ÃÃÂµÂ»Ã«Â¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£

keylength (Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã©Â¥Â¤Â¥Ã³Â¤ÃÂ¤Ã **–k**)
Â¤Â³Â¤Ã¬Â¤ÃÂ¡Â¢BlowfishÂ°ÃÂ¹Ã¦Â²Â½Â¤ÃÂ¥Â-Â¡Â¼Â¤ÃÂ¥ÃÂ¥ÃÂ¥ÃÃÂ¹Â¤ÃÂºÃÃ§ÃÂ¤ÃÃÂ°Â¿Ã´Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£ Â¤Â³Â¤ÃÃÃÂ¤Ã4Â¤Â«Â¤Ã©576Â¤ÃÂ´ÃÂ¤Ã4Â¤ÃÃÃÂ¿Ã´Â¤ÃÂ¤ÃÂ¤Â±Â¤Ã¬Â¤ÃÂ¤ÃÂ¤Ã©Â¤ÃÂ¤Â¤Â¡Â£ Â»ÃÃÃÂ¤ÂµÂ¤Ã¬Â¤Ã«Â¥Â-Â¡Â¼ÃÂ¹Â¤ÃÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÃÃÂ¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÃÃÂ¤ÃÂºÃÂ¾Â®ÃÃÂ¤ÃÂ¤ÃÂ¤Ã«Â¡Â£ (**minkeylength**Â»Â²Â¾Ã)

Â¥ÃÂ¥ÃÂ¥Â©Â¥Ã«Â¥ÃÂ¤Ã128Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£ ÃÃÃÂ¤ÃÂ¥Â±Â¡Â¼Â¥Â¹Â¤ÃÂ¤Â·Â¤ÃÂ¡Â¢Â¤Â³Â¤ÃÃÃÂ¤Â¬0Â¤ÃÃÃÃÂªÂ¤ÂµÂ¤Ã¬Â¤Ã«Â¤ÃÂ¡Â¢ Â¥Â-Â¡Â¼Â¤ÃÂ¥ÃÂ¥Â´Â¥Â·Â¥Â¨Â¡Â¼Â¥Â·Â¥Ã§Â¥Ã³Â¤ÃÂ°ÃÂ¹Ã¦Â²Â½Â¤ÃÃÂµÂ¸ÃºÂ¤ÃÂ¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£

keylifetime
Â¤Â³Â¤ÃÂ¥ÃÂ¥Ã©Â¥Ã¡Â¡Â¼Â¥Â¿Â¤ÃÃÃÂ¤Â¬0Â°ÃÂ³Â°Â¤ÃÃÃÃÂªÂ¤ÂµÂ¤Ã¬Â¤Ã«Â¤ÃÂ¡Â¢Â¤Â³Â¤Ã¬Â°ÃÂ¹ÃÂ¤ÃÃÃÃÂ³Â¤ÃÂ¤ÂªÂ¤Â¤Â¤ÃÂ¡Â¢ Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ¥Â»Â¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¥Â-Â¡Â¼Â¤ÃÃÂ³Â½ÃÂ¤ÃÂ¤Â¿Â¤Ã¡Â¤ÃÂ¡Â¢Â°ÃÃÂ°ÃÃÃÂªÂ¤ÂµÂ¤Ã¬Â¤Â¿shared secret keyÂ¤Ã² Â°ÃÃ¸ÃÃÂ¤Â¹Â¤Ã«Â¤Ã¨Â¤Ã¦Â¤ÃÃÃÂµÃ¡Â¤Â¹Â¤Ã«Â¡Â£ Â¤ÃÂ¤ÃÂ¤ÃªZebedeeÂ¤ÃÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ¡Â¢ Â°ÃÂ½Ã©Â¤ÃÃÃÃÂ³Â¤ÃÂ¤ÂªÂ¤Â¤Â¤ÃÂ¤ÃÂ¤ÃÂ¥Â-Â¡Â¼Â¸Ã²Â´Â¹Â¤ÃÃÃÃÃÂ¤Ã²ÃÂ´Â¤ÃÂ¹ÃÂ¤ÃÂ¤Â¦Â¡Â£ Â¤Â½Â¤Ã¬Â°ÃÂ¹ÃÂ¤ÃÃÃÃÂ³Â¤ÃÂ¤ÃÂ¡Â¢Â¥ÃÂ¡Â¼Â¤ÃÃÃÂ-Â¸ÃºÂ´Ã¼Â¸ÃÂ¤Â¬ÃÃÂ¤Ã¬Â¤Ã«Â¤ÃÂ¤ÃÂ¤ÃÂ¡Â¢ÃÂ±Â¤Â¸secret keyÂ¤Â¬Â°ÃÃ¸ÃÃÂ¤ÂµÂ¤Ã¬Â¡Â¢ Â¤Â³Â¤ÃÂ¥ÃÂ¡Â¼Â¤Â«Â¤Ã©session keyÂ¤Â¬ÃÂ³Â½ÃÂ¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£ Â¥ÃÂ¡Â¼Â¤ÃÃÂ-Â¸ÃºÂ´Ã¼Â¸ÃÂ¤Â¬ÃÃÂ¤Ã¬Â¤Ã«Â¤ÃÂ¡Â¢Â¼Â«ÃÂ°ÃÂªÂ¤ÃÂ¿Â·Â¤Â·Â¤ÃÂ¥Â-Â¡Â¼Â¤ÃÂ¸Ã²Â´Â¹Â¤Â¬Â¹ÃÂ¤ÃÂ¤Ã¯Â¤Ã¬Â¤Ã«Â¡Â£

Â¤Â½Â¤Â·Â¤ÃÂ¡Â¢Â¤Â³Â¤ÃÂ¥ÃÂ¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤Â¬Â¡Â¢shared secret keyÂ¤Â¬ÃÂ¸ÃºÂ¤ÃÂ´Ã¼Â´ÃÂ¤Ã²Â»ÃÃªÂ¤Â¹Â¤Ã«Â¡Â£ Â¤Â³Â¤Ã¬Â¤ÃÂ¡Â¢Â´Ã»Â¤ÃÃÃÃÂ³Â¤ÂµÂ¤Ã¬Â¤Â¿ÃÃÃÂ³Â¤ÃÂ¤ÃÂ±ÃÂ¶ÃÂ¤Â·Â¤ÃÂ¤Â¤Â¤ÃÂ¡Â¢Â¿Â·Â¤Â·Â¤Â¤ÃÃÃÂ³Â¤ÃÂ¤Â±Â¤ÃÂ±ÃÂ¶ÃÂ¤Â¹Â¤Ã«Â¡Â£

Â¤Â³Â¤ÃÂ¥Â-Â¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÃÃÂ¤ÃÃÂ±Â°ÃÂ¤ÃÃÃÂ¤ÃÂ¤Â¢Â¤ÃªÂ¡Â¢65535(ÃÃ³18Â»Â¾Â´Ã)Â°ÃÂ²Â¼Â¤ÃÂ¤ÃÂ¤Â±Â¤Ã¬Â¤ÃÂ¤ÃÂ¤Ã©Â¤ÃÂ¤Â¤Â¡Â£ Â¥ÃÂ¥ÃÂ¥Â©Â¥Ã«Â¥ÃÂ¤Ã3600ÃÃ(1Â»Ã¾Â´Ã)Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£ Â¤Â³Â¤ÃÂ¥Â-Â¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÃÃÂ¤Ã²0Â¤ÃÃÃÃÂªÂ¤Â¹Â¤Ã«Â¤ÃÂ¡Â¢Â¥Â-Â¡Â¼Â¤ÃÂ°ÃÃ¸ÃÃÂ¤ÃÂ¹ÃÂ¤ÃÂ¤Ã¯Â¤Ã¬Â¤ÃÂ¤Â¯Â¤ÃÂ¤ÃªÂ¡Â¢ ÃÃÂ³Â¤ÃÃÃÂ¤ÃÂ¡Â¢Â´Â°ÃÂ´Â¤Ãshared keyÂ¤ÃÂ¸Ã²Â´Â¹Â¼ÂªÃÂ³Â¤Â-Â¤Â¬Â¹ÃÂ¤ÃÂ¤Ã¯Â¤Ã¬Â¤Ã«Â¡Â£ Â¤ÃÂ¤ÃÂ¤ÃªÂ¡Â¢Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤Ã¢Â¥ÂµÂ¡Â¼Â¥ÃÂ¤Ã¢ÃÂ¨Â²Ã³ÃÃ«ÃÂ©Â¸Â°Â¤Ã²Â¿Â·Â¤Â·Â¤Â¯ÃÂ¸ÃÂ®Â¤Â¹Â¤Ã«Â¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¹Â¡Â£ Â¤Â¿Â¤ÃÂ¤Â·Â¡Â¢Â¤Â³Â¤ÃÃÂ½ÃÂ¡Â¤ÃÂ¥ÃÂ¥ÃÂ¥Â©Â¡Â¼Â¥ÃÂ¥Ã³Â¥Â¹Â¤ÃÃÂ¿ÃÂ§Â¤ÃÂ±ÃÂ¶ÃÂ¤Â¬Â¤Â¢Â¤Ã«Â¤ÃÂ¤ÃÂ¡Â¢ ÃÃÂ¼Â¹Â¶Â¸ÃÂªÂ¤ÃÂ¹Ã¢ÃÃÂ¤ÃÂ°ÃÃÂ´ÃÂ-Â¤Ã²ÃÂ¬ÃÃÂ¤ÃÂ¤Â¹Â¤Ã«Â¾Ã¬Â¹Ã§Â°ÃÂ³Â°Â¤ÃÂ¤ÃÂ´Â«Â¤Ã¡Â¤Ã©Â¤Ã¬Â¤ÃÂ¤Â¤Â¡Â£

minkeylength
Â¤Â³Â¤Ã¬Â¤ÃÂ¡Â¢Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ¤Â¿Â¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂµÃ¶ÃÃÂ¤ÂµÂ¤Ã¬Â¤Ã«Â°ÃÂ¾Â®Â¤ÃÂ¥Â-Â¡Â¼ÃÂ¹Â¤Ã²Â»ÃÃªÂ¤Â¹Â¤Ã«Â¡Â£ Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤Â¬Â¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ¥Ã¬Â¥ÃÂ¥Ã«Â¤Ã¨Â¤ÃªÂ¾Â®Â¤ÂµÂ¤Â¤ÃÃÂ¤Ã²ÃÃÂµÃ¡Â¤Â¹Â¤Ã«Â¤ÃÂ¡Â¢

Â¥Âµ Â¡Â¼Â¥ÃÂ¤ÃÂ¤Â³Â¤Â³Â¤ÃÂ»ÃÃÂªÂ¤Â·Â¤Â¿Â°ÃÂ¾Â®ÃÃÂ¤Ã²ÃÃÃºÂ¤Â¹Â¤Ã«Â¡Â£
Â¥ÂµÂ¡Â¼Â¥ÃÂ¤Â¬Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ°ÃÂ¾Â®ÃÃÂ¤Ã¨ÂªÂ¤ÃªÂ²Â¼Â¤ÃÂ¥Ã¬Â¥ÃÂ¥Ã«Â¤Ã²ÃÃÃºÂ¤Â¹Â¤Ã«Â¤ÃÂ¡Â¢
Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÃÃÃÂ³Â¤Ã²Â½ÂªÃÂ»Â¤Â¹Â¤Ã«Â¡Â£

Â¥ÃÂ¥ÃÂ¥Â©Â¥Ã«Â¥ÃÂ¤Ã0Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£

modulus

Â¤Â³Â¤ÃÂ¥ÂÂ¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÃÃÂ¤ÃÂ¡Â¢Diffie−HellmanÂ¥Â-
Â¡Â¼Â¸Ã²Â´Â¹Â¤ÃÂ¾ÃªÃÂ¾ÃÃÂ¤Ã²ÃÂ½Â¤Â¹16Â¿ÃÂ¿Ã´Â¤ÃÃÂ¸Â»ÃºÃÂ³Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£
Â¤Â³Â¤Ã¬Â¤Â¬Â²Â¿Â¤Â«Â¤Ã¯Â¤Â«Â¤Ã«Â¿ÃÂ¤ÃÂ¿Ã´Â³ÃÂ¥ÂªÂ¥Â¿Â¥Â¯Â¤ÃÂ¿ÃÂ°ÃÂ³Â°Â¤ÃÂ¤Â¤Â¤Â¸Â¤ÃÂ¤ÃÂ¤Ã£Â¤ÃÂ¤Ã¡Â¡Â£

Â¥ÃÂ¥ÃÂ¥Â©Â¥Ã«Â¥ÃÂ¤ÃÃÃÂ¤ÃÂ²Â¼ÂµÂ-
Â¤Ã1024Â¥ÃÂ¥ÃÂ¥ÃÂ¤ÃÃÃÂ¿Ã´Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£

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f488fd584e49dbcd 20b49de49107366b 336c380d451d0f7c 88b31c7c5b2d8ef6
f3c923c043f0a55b 188d8ebb558cb85d 38d334fd7c175743 a31d186cde33212c
b52aff3ce1b12940 18118d7c84a70a72 d686c40319c80729 7aca950cd9969fab
d00a509b0246d308 3d66a45d419f9c7c bd894b221926baab a25ec355e92f78c7
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Â¤Â³Â¤Ã¬Â¤Ã Peter Gutman Â¤Ã **CryptLib** Â¤ÃÃÃ¦Â¤Ã *testdh.h* Â¤ÃÂ¤Â¤Â¤Â¦Â¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤Â«Â¤Ã© Â¤ÃÂ¤Ã©Â¤Ã¬Â¤Â¿Â¡Â£ Â¤Â½Â¤Â³Â¤ÃÂ¤ÃÂ¡Â¢Â¤Â³Â¤ÃÃÃÂ¤Â¬ “generated by Colin Plumb for SKIP”Â¤ÃÂ¤ÃÂ¥Â³Â¥Ã¡Â¥Ã³Â¥ÃÂ¤Â¬Â¤Â¢Â¤Ã«Â¡Â£ Â¤Â½Â¤Ã¬Â¤Â«Â¤Ã© “these values were chosen as representative well-known public values to allay fears of possible trapdoors in self-generated values. The generation method and actual values can be checked against the SKIP standards document.” Â¤ÃÂ¤ÃÂ¤ÂµÂ¡Â£

privatekey

Â¥ÃÂ¥ÃÂ¥Â©Â¥Ã«Â¥ÃÂ¤ÃÂ¤ÃÂ¡Â¢**Zebedee**Â¤ÃÂ¥Â»Â¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤Â´Â¤ÃÂ¤ÃÂ¿Â·Â¤Â·Â¤Â¤ÃÃ«ÃÂ©Â¸Â°Â¤Ã²ÃÂ¸ÃÂ®Â¤Â¹Â¤Ã«Â¡Â£
Â¤Â·Â¤Â«Â¤Â·Â¡Â¢Â¤Ã¢Â¤Â·Â¤Â¢Â¤ÃÂ¤Â¿Â¤Â¬ÃÃ¨Â²Ã³ÃÂ±Â¤Â¸Â¥Â-
Â¡Â¼Â¤Ã²Â»ÃÂ¤Â¤Â¿Â¤Â¤Â¾Ã¬Â¹Ã§Â¤ÃÂ¡Â¢
16Â¿ÃÂ¿Ã´Â¤ÃÃÂ¸Â»ÃºÃÂ³Â¤ÃÂ·Â¤ÃÂ¤Â³Â¤Ã¬Â¤Ã²Â»ÃÃÂªÂ¤Â¹Â¤Ã¬Â¤ÃÂ¤Â¤Â¤Â¤Â¡Â£
Â¤Ã¢Â¤Â·Â¸Ã¸Â³Â«Â¸Â°Â°ÃÂ¹Ã¦Â¤ÃÂ¤Ã¨Â¤Ã«ÃÂ§Â¾Ã(identitychecking)Â¤Ã²Â»ÃÃÂ¤Â·Â¤Â¿Â¤Â¤Â¾Ã¬Â¹Ã§Â¤ÃÂ¡Â¢
ÃÂ¬Â¤ÂºÂ¤Â³Â¤Ã¬Â¤Ã²ÃÃÃªÂ¤Â·Â¤ÃÂ¤Â¯Â¤ÃÂ¤ÃÂ¤Â¤Â±Â¤ÃÂ¤Â¤Â¡Â£ Â¥Â-
Â¡Â¼Â¤Â¬Â¾Â¯Â¤Â¯Â¤ÃÂ¤Ã¢10Â·Ã¥Â¤ÃÃÂ¬ÃÃÂ¤ÃÂ¤Â³Â¤ÃÂ¤ÃÃÃ-
Â°ÃÂ¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¡Â£

ÃÃÂ¡Â¹Â¤ÃÂ¥ÂÂ¡Â¼Â¥Ã¯Â¡Â¼Â¥Ã(Miscellaneous Keywords)

Â°ÃÂ²Â¼Â¤ÃÂ¥Â-
Â¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ¤Ã¢Â¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ¤Ã¢ÃÂ¹Â¤Â·Â¤Â¯ÃÂ¬ÃÃÂ¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£

checkidfile

Â¤Â³Â¤Ã¬Â¤ÃÂ¡Â¢ÃÃÃÂ³Â¤Ã²ÂµÃ¶Â²ÃÂ¤Â¹Â¤Ã«ÃÂ°Â¤ÃÂ¥ÃÂ¥Â§Â¥ÃÂ¥Â¯Â¤Â¹Â¤Ã«Â¥Â¢Â¥Â¤Â¥ÃÂ¥Ã³Â¥ÃÂ¥Â£Â¥ÃÂ¥Â£Â¤Ã²ÃÂ£Â¿Ã´ÂµÂ-
Â½ÃÂ¤Â·Â¤Â¿Â¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤ÃÃÂ¾Â¾ÃÂ¤ÃÂ¤Â¢Â¤Ã«Â¡Â£
Â¤Â³Â¤Ã¬Â¤ÃÂ¤ÃÂ¤Â¤Â¤ÃÂ¤Ãidentity checkingÂ¤ÃÂ¾ÃÂ¤Â·Â¤Â¯Â½ÃÂ¤ÃÂ¤Ã«Â¡Â£
Â¤Â³Â¤ÃÂ¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ·Â¤Â«Â»ÃÃÂªÂ¤ÃÂ¤Â-
Â¤ÃÂ¤Â¡Â£Â¤Ã¢Â¤Â·ÃÂ£Â¿Ã´Â½ÃÂ¸Â½Â¤Â·Â¤Â¿Â¤Ã©Â¡Â¢
ÂºÃÂ¸Ã¥Â¤ÃÃÃÂ¤Â¬Â»ÃÃÃÂ¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£

Â¤Ã¢Â¤Â·Â¡Â¢**keylength**Â¤Â¬0Â¤ÃÂ¤Â¢Â¤Ã«Â¤Â³Â¤ÃÂ¤Ã (Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤Â¬)ÃÂ±Â°ÃÂ¤Â·Â¤Â¿Â¾Ã¬Â¹Ã§Â¤ÃÂ¡Â¢Â¥Â¢Â¥Â¤Â¥ÃÂ¥Ã³Â¥ÃÂ¥Â£Â¥ÃÂ¥Â£Â¤ÃÂ¥ÃÂ¥Â§Â¥ÃÂ¥Â¯Â¤ÃÂ¹ÃÂ¤ÃÂ¤Ã¯Â¤Ã¬Â¤ÃÂ¤Â¤Â¡Â£

connecttimeout

ZebedeeÂ¤Â¬Â¡ÃÂµÃÂ¤Ã Â¤ÃÂ¥Ã¢Â¡Â¼Â¥ÃÂ¡Ã(**listenmode** ÂµÃÂ¤Ã **clienthost**Â»Â²Â¾Ã)Â¤ÃÂ»ÃÃÂ¤ÂµÂ¤Ã¬Â¤ÃÂ¤Â¤Â¤Ã«Â»Ã¾Â¡Â¢
ÃÃÂ³Â¤Â¬Â¼ÃµÂ¤Â±Â¤ÃÂ¤Â±Â¤Ã©Â¤Ã¬Â¤Ã«Â¤ÃÂ¤Ã²ÃÂ¤ÃÂ»Ã¾Â´ÃÂ¤ÃÂ¤Â³Â¤ÃÂ¥Â-
Â¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÃÂ©Â¸Ã¦Â¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£
ÃÃÂ¤ÃÃÃÂ±Â°ÃÂ¤Ã65535ÃÂ¤ÃÃ¾Â¤ÃÂ¤Â¢Â¤Ã«Â¤Â³Â¤ÃÂ¡Â£

Â´Ã»ÃÃªÃÃÂ¤Ã300ÃÃÂ¤ÃÂ¤Â¢Â¤Ã«Â¡Â£

debug (Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã©Â¥Â¤Â¥Ã³Â¤ÃÂ¤Ã **–D**)
Â¤Â³Â¤Ã¬Â¤Ã**Zebedee**Â¤Â¬ “debug”
Â¥Ã¢Â¡Â¼Â¥ÃÂ¤ÃÃÂ°Âº Ã®Â¤Â¹Â¤Ã«Â¤Â«Â¤Ã²Â»ÃÃªÂ¤Â¹Â¤Ã«Â¿Â¿ÂµÂ¶ÃÃÂ¤ÃÂ¤Â¢Â¤Ã«Â¡Â£
“debug” Â¥Ã¢Â¡Â¼Â¥ÃÂ¤ÃÂ¤ÃÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤Ã (**mul-**
tiuseÂ¥Ã¢Â¡Â¼Â¥ÃÂ¤ÃÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥Ã)Â¤Ã
Â°Ã¬ÃÃÂ¤ÃÂ°Ã¬Â¤ÃÂ¤ÃÃÃÃÂ³Â¤Â·Â¤Â«Â¼ÃµÂ¤Â±ÃÃÂ¤Â±Â¤ÃÂ¤Â¤Â¡Â£
Â¤Â½Â¤Â·Â¤ÃÂ¡Â¢ÃÃÂ¥ÃÂ¥Ã-
Â¥Â»Â¥Â¹Â¤Ã¤ÃÃÂ¥Â¹Â¥Ã¬Â¥ÃÂ¥ÃÂ¤Ã²ÃÂ¸ÃÂ®Â¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤ÃÂ¤Â¯ “inline”
Â¤ÃÃÂ°ÂºÃ®Â¤Â¹Â¤Ã«Â¡Â£ Â¤Â³Â¤Ã¬Â¤ÃÂ¥ÃÂ¥ÃÂ¥ÃÂ¥Â¬Â¾Ã¥Â¤ÃÂ¥ÃÂ¥Ã-
Â¥Â°Â¥Ã©Â¥Ã Â¤Ã²ÃÂ°Â¤Â«Â¤Â¹Â»Ã¾Â¤ÃÃÃÃÃ¸Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£
Â¥ÃÂ¥ÃÂ¥Â©Â¥Ã«Â¥ÃÂ¤ÃfalseÂ¤ÃÂ¤Â¢Â¤Ã«Â¡Â£Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã©Â¥Â¤Â¥Ã³Â¥ÂªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤Ã
–D Â¤Ã Â¤Â³Â¤Ã¬Â¤Ã² **true** Â¤ÃÃÃÃªÂ¤Â¹Â¤Ã«Â¤ÃÂ¤ÃÃÃÂ±Â¤Â¸Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£

ÃÃ-
Â¡Â§Â¤Â³Â¤ÃÃÃÃªÂ¤ÃÂ¡Â¢UDPÂ¥Ã¢Â¡Â¼Â¥ÃÂ¤ÃÂ¤ÃÃÂµÂ¤Â·Â¤Â¯ÃÂ°ÂºÃ®Â¤Â·Â¤ÃÂ¤Â¤Â¤ÃÂ¤ÃÂ¡Â¢Â»Ã®Â¤ÂµÂ¤ÃÂ¤Â¤Â¤ÃÂ¤Â¦Â¤Â¬Â¤Â¤Â¤Â¤Â¡Â£

detached (Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã©Â¥Â¤Â¥Ã³Â¤ÃÂ¤Ã **–d**)
Â¤Â³Â¤Ã¬Â¤ÃÂ¥ÃÂ¥Ã-
Â¥Â»Â¥Â¹Â¤Â¬ÃÂ©Â¸Ã¦ÃÂ¼ÃÃ¶Â¤Â«Â¤Ã©Â¼Â«ÃÂ¬Â¼Â«Â¿ÃÂ¤Ã²ÃÃÃÂ¥Â¤Â·Â¤ÃÂ¥ÃÂ¥ÃÂ¥Â¯Â¥Â°Â¥Ã©Â¥Â¦Â¥Ã³Â¥ÃÂ¤Ã
(UNIXÃÃÂ¸Ã¬Â¤ÃÂ¤ÃÂ¥ÃÂ¡Â¼Â¥Ã¢Â¥Ã³Â¤ÃÂ¤Â·Â¤Ã)ÃÂ°ÂºÃ®Â¤Â¹Â¤Ã«Â¤Â«Â¤ÃÂ¤Â¦Â¤Â«Â»ÃÃªÂ¤Â¹Â¤Ã«Â¿Â¿ÂµÂ¶ÃÃÂ¤ÃÂ¤Â¢Â¤Ã«Â¡Â£
Â¤Â³Â¤Ã¬Â¤ÃÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ¤Â¢Â¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ¤Â¢ÃÂ-
Â¸ÃºÂ¤ÃÂ¤Â¢Â¤ÂªÂ¡Â¢ Â¥ÃÂ¥ÃÂ¥Â©Â¥Ã«Â¥ÃÂ¤Ã **true**
Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã©Â¥Â¤Â¥Ã³Â¥ÂªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤Ã**–d**Â¤Ã
Â¤Â³Â¤Ã¬Â¤Ã² **false** Â¤ÃÃÃÃªÂ¤Â¹Â¤Ã«Â¤ÃÂ¤ÃÃÃÂ±Â¤Â¸Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£

ÃÃÂ¡Â§WindowsÂ¤ÃÂ¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥ÃÂ¥Ã-
Â¥Ã³Â¥ÃÂ¥ÃÂ¤ÃÂ¤ÃÂ¤Â³Â¤Ã¬Â¤Â¬Â¤Â¦Â¤ÃÂ¤Â¯ÃÂ°ÂºÃ®Â¤Â·Â¤ÃÂ¤Â¤Â¤Â³Â¤ÃÂ¤Ã¢Â¤Â¢Â¤Ã«Â¤Ã¨Â¤Â¦Â¤ÃÂ¡Â£
Â¤Â½Â¤ÃÃÂ§Â¸ÃµÂ¤ÃÂ¡Â¢Â¥Â³Â¥Ã³Â¥Â½Â¡Â¼Â¥Ã«Â¥Â¦Â¥Â¤Â¥Ã³Â¥ÃÂ¥Â¦Â¤ÃÂ¤ÃÂ½ÃÃÃÂ¤Â¬Â»ÃÂ¤ÃÂ¤ÃªÂ³Â¤Â¹Ã¾Â¤ÃÂ¤Ãsig-
nalÂ¤Â¬ÃÂµÂ»Ã«Â¤ÂµÂ¤Ã¬Â¤Ã«Â¤Â¬Â¡Â¢ Â¥Â³Â¥Ã³Â¥Â½Â¡Â¼Â¥Ã«Â¤ÃÂ¥ÃÂ¥Ã-
Â¥Ã³Â¥ÃÂ¥ÃÂ¤Â¬**Zebedee**Â¤Â¬Â½ÂªÃÂ»Â¤Â¹Â¤Ã«Â¤ÃÂ¤ÃÃÂ½Â¼Â¨Â¤ÂµÂ¤Ã¬Â¤ÃÂ¤Â¤Â¤Â³Â¤ÃÂ¤ÃÂ¡Â£
Â¤Â³Â¤Ã¬Â¤Ã²Â²Ã³ÃÃ²Â¤Â¹Â¤Ã«Â¤ÃÂ¤ÃÂ¡Â¢Â°ÃÂ²Â¼Â¤ÃÂ¤Ã¨Â¤Â¦Â¤Ã “start”
Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¤Ã²Â»ÃÃÃÂ¤Â¹Â¤Ã¬Â¤ÃÂ¤Ã¨Â¤Â¤Â¡Â£

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DOS> start zebedee -f server.zbd
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Â¤Â³Â¤Ã¬Â¤Ã**Zebedee**Â¤Ã²Â¿Â·Â¤Â·Â¤Â¤Â¥Â³Â¥Ã³Â¥Â½Â¡Â¼Â¥Ã«Â¥Â»Â¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤ÃÂµÂ¯ÃÂ°Â¤Â·Â¡Â¢Â¤Â½Â¤Â³Â¤Â«Â¤Ã©ÃÃÂ¤ÃªÃÂ¥Â¤Â¹Â¡Â£
ÃÃÂ¤ÃªÃÂ¥Â¤Â¹ÃÂ°Â¤ÃÂ°Ã¬Â½ÃÂ¤ÃÂ¤Â±Â¥ÃÂ¥Ã©Â¥ÃªÂ¤ÃÂ¤Â½Â¤ÃÂ¥Â³Â¥Ã³Â¥Â½Â¡Â¼Â¥Ã«Â¤Â¬Â¸Â«Â¤Â¨Â¤Ã«Â¤Â¬Â¡Â¢Â¤Â½Â¤Ã¬Â¤Â¬Â¾ÃÂ¤Â¨Â¤ÃÃÂ¤Â¢
ZebedeeÂ¤ÃÂ¥ÃÂ¥ÃÂ¥Â¯Â¥Â°Â¥Ã©Â¥Â¦Â¥Ã³Â¥ÃÂ¤ÃÃÂ°ÂºÃ®Â¤Â·Â¤ÃÂ¤Â¤Â¤Ã«Â¡Â£

include
Â¤Â³Â¤Ã¬Â¤ÃÃÃÂ¤ÃÃÃÃÃªÂ¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤ÃÃÃÂ¾ÃÂ°Â¤Ã²Â»ÃÃªÂ¤Â¹Â¤Ã«Â¡Â£
Â¤Â½Â¤ÃÂ¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤ÃÃÂ¤Â³Â¤ÃÂ¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤ÃÃÂ»ÃÂ¤ÃªÂ¤Ã²Â½Ã¨ÃÂ½Â¤Â¹Â¤Ã«ÃÂ°Â¡Â¢
Â¤Â³Â¤ÃÂ»Ã¾ÃÃÂ¤ÃÂ½Ã¨ÃÂ½Â¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£
ÃÃ£Â¤Â¨Â¤ÃÂ¡Â¢ÃÃ«ÃÂ©Â¸Â°Â¤Ã²Â¤Ã¢Â¤ÃÂ¤ÃÂ¤Â-
Â¤ÃÂ¤ÃÂ¤ÃªÂ¥Â¬Â¡Â¼Â¥ÃÂ¤Â·Â¤Â¿Â¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤ÃÃÂ¬ÃÂ¥Â¤Â·Â¤ÃÃÃÃÂ¸Â¤Â·Â¤Â¿Â¾Ã¬Â¹Ã§Â¤ÃÂ¡Â¢
Â¤Â½Â¤ÃÂ¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤Ã²Â¼Ã¨Â¤ÃªÂ¹Ã¾Â¤Ã Â¤Â¿Â¤Ã¡Â¤ÃÂ»ÃÃÃÂ¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£
includeÂ¤Ã5Â¥Ã¬Â¥ÃÂ¥Ã«Â¤ÃÂ¿Â¼Â¤ÂµÂ¤ÃÂ¤ÃÃÂ¸ÃÃªÂ¤ÂµÂ¤Ã¬Â¤Ã«(ÂºÃÂ½Ã©Â¤ÃÂ¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤Ã²Â¥Ã¬Â¥ÃÂ¥Ã«1Â¤ÃÂ¤Â·Â¤Ã)Â¡Â£
Â¤Â³Â¤Ã¬Â¤ÃÂ¤Â¦Â¤ÃÂ¤Â«Â¤ÃªÃÂµÂ¸ÃÂ¥Ã«Â¡Â¼Â¥ÃÂ¤Ã²ÂºÃ®Â¤Ã©Â¤ÃÂ¤Â¤Â¤Â¿Â¤Ã¡Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£

maxbufsize
Â¤Â³Â¤Ã¬Â¤ÃÂ¡Â¢ **Zebedee**
Â¤Â¬Â¥Â¢Â¥ÃÂ¥ÃªÂ¥Â±Â¡Â¼Â¥Â·Â¥Ã§Â¥Ã³Â¤Â«Â¤Ã©Â¥ÃÂ¡Â¼Â¥Â¿Â¤Ã²ÃÃÂ¤Ã Â¤Â¿Â¤Ã¡Â¤ÃÂ»ÃÃÂ¤Â¹Â¤Ã«Â¥ÃÂ¥ÃÂ¥ÃÂ¥Â¡Â¤ÃÃÂ¹Â¤Âµ(Â¥ÃÂ¥Â¤Â¥ÃÃÂ±Â°Ã)Â¤Ã²Â»ÃÃªÂ¤Â¹Â¤Ã«Â¡Â£
Â¼ÃÂºÂ¤ÃÂ»ÃÃÂ¤ÂµÂ¤Ã¬Â¤Ã«Â¥ÃÂ¥ÃÂ¥ÃÂ¥Â¡Â¤ÃÃÂ¹Â¤ÂµÂ¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÃÃÂ¤ÃÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÃÃÂ¤ÃÂºÃÂ¾Â®ÃÃÂ¤ÃÂ¤ÃÂ¤Ã«Â¡Â£

Â¥ÃÂ¥ÃÂ¥Â©Â¥Ã«Â¥ÃÂ¤ÃÂ¤ÃÂ¡Â¢**Zebedee**Â¤ÃÂ¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â¤ÃÃÂ¾ÃÂ¼Â¤Ã
Â¥ÂµÂ¡Â¼Â¥ÃÂ¥ÃÂ¥ÃÂ¥Â°Â¥Ã©Â¥Ã Â¡Â¢Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¥ÃÂ¥Ã-
Â¥Â°Â¥Ã©Â¥Ã Â¤Â«Â¤Ã©8192Â¥ÃÂ¥Â¤Â¥ÃÃÂ±Â°ÃÂ¤ÃÃÃÂ¤ÃÂ½ÃÂ¤Â¹Â¡Â£

ÃÃ£Â¤Â¨Â¤ÃÂ¡Â¢Â¤Â¹Â¤Â´Â¤Â¯ÃÃÃÃÃÂªÂ¤ÃÂ¥Â¢Â¥ÃÂ¥ÃªÂ¥Â±Â¡Â¼Â¥Â·Â¥Ã§Â¥Ã³Â¤Â¬Â¤Â¢Â¤ÃÂ¤ÃÂ¡Â¢
ÃÃ§Â¤Â-
Â¤ÃÂ¥ÃÂ¡Â¼Â¥Â¿ÃÂ¾ÃÃ·Â¤Ã²ÃÃÂ¤ÃÂ¤Â¿Â¤Ã¡Â¤ÃÂ¤ÃÂ¤ÃÂ¤Â¤Â¥Ã¬Â¥Â¹Â¥ÃÂ¥Ã³Â¥Â¹Â¤ÃÂ¤ÃÂ¤Â¿Â¤ÃªÂ¤Â·Â¤Â¿Â»Ã¾Â¤ÃÂ¤ÃÂ¡Â¢
Â¤Â³Â¤Ã¬Â¤Ã²Â¾Â®Â¤ÂµÂ¤Â¯Â¤Â·Â¤Â¿Â¤Â¤Â¤Â³Â¤ÃÂ¤Â¢Â¤Â¢Â¤Ã«Â¤ÃÂ¤Ã-
Â¤Â¦Â¡Â£
Â¥ÃÂ¥ÃÂ¥ÃÂ¥Ã¡Â¥ÂµÂ¥Â¤Â¥ÂºÂ¤Ã1Â¥ÃÂ¥Â¤Â¥ÃÂ¤ÃÂ¤ÃÂ½ÃÂ¤Ã¡Â¤Ã«Â¤Â³Â¤ÃÂ¤Â¬Â¤ÃÂ¤Â-
Â¤Ã«Â¤Â¬Â¡Â¢ Â¤ÂªÂ¤Â«Â¤Â·Â¤ÃÃÂ°Â¤Â-
Â¤Ã²Â¥ÃÂ¥ÃÂ¥ÃÂ¥Â°Â¤Â·Â¤Ã¨Â¤Â¦Â¤ÃÂ¤Â·Â¤ÃÂ¤Â¤Â¤Ã«Â¤ÃÂ¤Â«Â»Ã¾Â´ÃÂ¤Ã²ÃÂµÃÃÂ¤ÃÂ¤Â·Â¤Â¿Â¤Â¤Â¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ±Â¤Ã¬Â¤ÃÂ¡Â¢
Â¤Â³Â¤Ã¬Â¤ÃÂ¤ÂªÂ´Â«Â¤Ã¡Â¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¤Â¤Â¡Â£
ÂµÃÂ¤ÃÂ¡Â¢ÃÃ§ÃÃÂ¤ÃÂ¥ÃÂ¡Â¼Â¥Â¿Â¤ÃÃÂ¾ÃÃ·Â¤Â¬Â¤Â¢Â¤ÃÂ¤ÃÂ¡Â¢
Â°ÂµÂ½ÃÂ¤Ã²Â¤Ã¡Â¤Â¤Â¤ÃÂ¤ÃÂ¤ÃÂ¤Â¸ÃºÂ¤Â«Â¤Â»Â¤Â¿Â¤Â¤Â¾Ã¬Â¹Ã§Â¤ÃÂ¡Â¢16383Â¥ÃÂ¥Â¤Â¥ÃÂ¤ÃÂ¤ÃÃÃ§Â¤Â-
Â¤Â¯Â¤Â·Â¤ÃÂ¤Â¢Â¤Ã¨Â¤Â¤Â¡Â£ ÃÂ¡Â§**maxbufsize** Â¤Ã **Zebedee**
Â¤Â¬Â»ÃÃÂ¤Â¹Â¤Ã«Â¥Ã¡Â¥Ã¢Â¥ÃªÃÃÂ¤ÃÂ¤ÃÂ´ÃÂ·Â¸Â¤ÃÂ¤ÃÂ¡Â£
Â°Ã¬ÃÃÂ¤ÃÃÃÂ¤ÃÂ¤Â³Â¤Ã Â¥ÃÂ¡Â¼Â¥Â¿Â¤ÃÂ¤ÃÂ¤Â«Â¤Â¿Â¤ÃÂ¤ÃÂªÂ¤ÃÂ¥ÂµÂ¥Â¤Â¥ÂºÂ¤ÃÂ¤ÃÂ±Â¤ÃÂ±ÃÂ¶ÃÂ¤Â¹Â¤Ã«Â¡Â£

UDPÂ¥Ã¢Â¡Â¼Â¥ÃÂ¤ÃÂ¤ÃÂ¡Â¢Â¥ÃÂ¥ÃÂ¥ÃÂ¥Â¡Â¥ÂµÂ¥Â¤Â¥ÂºÂ¤ÃÂ°Â·Â¤Â¨Â¤Ã«Â¥ÃÂ¡Â¼Â¥Â¿Â¥Â°Â¥Ã©Â¥Ã Â¤ÃÂºÃÃ§ÃÂ¹Â¤ÃÂ¤Ã¢Â±ÃÂ¶ÃÂ¤Â¹Â¤Ã«Â¡Â£
Â¸Â½ÂºÃÂ¤ÃÂ¥ÃÂ¥ÃÂ¥ÃÂ¥Â¡Â¥ÂµÂ¥Â¤Â¥ÂºÂ¤Ã¨Â¤ÃªÃÃ§Â¤Â-
Â¤ÃÂ¥ÃÂ¡Â¼Â¥Â¿Â¥Â°Â¥Ã©Â¥Ã Â¤ÃÃÂ¬ÃÃÂ¤ÂµÂ¤Ã¬Â¡Â¢
Â¤Â½Â¤Ã¬Â¤Ã²Â¼ÂµÂ¿Â®Â¤Â¹Â¤Ã«Â¥Ã¢Â¥ÃÂ¥ÃªÂ¥Â±Â¡Â¼Â¥Â·Â¥Ã§Â¥Ã³Â¤Â¬ÃÃ®Â¤ÃÂ¤Ã«Â¤Â³Â¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¤ÃªÂ¤Â¬Â¤ÃÂ¤ÃÂ¡Â£
16383Â¥ÃÂ¥Â¤Â¥ÃÂ°ÃÂ¾Â¥Â¤ÃÂ¥ÃÂ¡Â¼Â¥Â¿Â¥Â°Â¥Ã©Â¥Ã Â¤ÃÂ°Â·Â¤Â¦Â¤Â³Â¤ÃÂ¤Â¬Â¤ÃÂ¤Â-
Â¤ÃÂ¤Â¤Â¡Â£

message
verbosity level
Â¤Â¬1Â¤ÃÂ¤Ã©Â¤ÃÂ¡Â¢ÃÃÃªÂ¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤ÃÂ¤Â³Â¤ÃÃÂ´ÃÂ¬Â¤Ã²Â½Ã¨ÃÂ½Â¤Â·Â¤Â¿Â»Ã¾Â¤ÃÂ¡Â¢
Â¤Â³Â¤ÃÂ¥Ã¡Â¥ÃÂ¥Â»Â¡Â¼Â¥Â¸Â¤Â¬Â¥ÃÂ¥Â°Â¤ÃÂµÃÂ¿Â¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£

name (Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã©Â¥Â¤Â¥Ã³Â¤ÃÂ¤Ã **−n**)
Â¤Â³Â¤Ã¬Â¤ÃÂ¡Â¢Â¼ÃÂ¹ÃÂ¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤ÃÂ¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«ÃÂ¾Â¤ÃÃÂ¥Â¤Ã¯Â¤ÃªÂ¤ÃÂ¡Â¢
Â¥Ã¡Â¥ÃÂ¥Â»Â¡Â¼Â¥Â¸Â¤ÃÃÂ¦Â¤ÃÂ»ÃÂ¤Ã¯Â¤Ã¬Â¤Ã«Â¥ÃÂ¥Ã-
Â¥Â°Â¥Ã©Â¥Ã ÃÂ¾Â¾ÃÂ¤ÃÂ¤ÃÂ¤Ã«Â¡Â£ WindowsÂ´ÃÂ¶Â-
Â¤ÃÂ¤ÃÂ¡Â¢Â¥Â¤Â¥Ã³Â¥Â¹Â¥ÃÂ¡Â¼Â¥Ã«Â¤Â¢Â¤Ã«Â¤ÃÂ¤ÃÂ¤ÃÂºÃ¯Â½Ã¼Â¤ÂµÂ¤Ã¬Â¤Ã«Â¥ÂµÂ¡Â¼Â¥ÃÂ¥Â¹Â¤ÃÃÂ¾ÃÂ°Â¤ÃÂ¤Â·Â¤ÃÂ¤Ã¢ÃÃÂ¤ÃÂ¤Ã©Â¤Ã¬Â¤Ã«Â¡Â£

logfile (command−line **−o**)
Â¤Â³Â¤Ã¬Â¤ÃÂ¥Ã¡Â¥ÃÂ¥Â»Â¡Â¼Â¥Â¸Â¤Â¬Â½ÃÃÃÂ¤ÂµÂ¤Ã¬Â¤Ã«Â¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤ÃÃÃÂ¾ÃÂ°Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£
Â¤Ã¢Â¤Â·Â¾ÃÃÂ¬Â¤ÂµÂ¤Ã¬Â¤Ã«Â¤ÃÂ¥Ã¡Â¥ÃÂ¥Â»Â¡Â¼Â¥Â¸Â¤ÃÃÂ¸Â½Ã Â¥Â¨Â¥Ã©Â¡Â¼Â¤ÃÂ½ÃÃÃÂ¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£

2Â¤ÃÂ¤ÃÃÃÂ¼Ã¬Â¤ÃÂ¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«ÃÂ¾Â¤Ã¢ÃÂµÂ¤Â·Â¤Â¤ÃÂ¾ÃÂ°Â¤ÃÂ¤Â·Â¤ÃÃÂ§Â¼Â±Â¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£
Â¤Ã¢Â¤Â·Â¡Â¢ÃÂ¾Â¾ÃÂ¤Â¬**NULL**Â¤ÃÂ¤ÃÂ¡Â¢ÃÂ´Â¤ÃÂ¤ÃÂ¥Ã¡Â¥ÃÂ¥Â»Â¡Â¼Â¥Â¸Â½ÃÃÃÂ¤ÃÂ»ÃÂ¤Ã¡Â¤Ã©Â¤Ã¬Â¤Ã«Â¡Â£
SYSLOGÂ¤ÃÂ¤ÃÂ¡Â¢Â¥Ã¡Â¥ÃÂ¥Â»Â¡Â¼Â¥Â¸Â¤ÃÂ¥ÃÂ¥Â¹Â¥ÃÂ¤ÃÂ¥Â·Â¥Â¹Â¥ÃÂ¥Ã Â¥Ã-
Â¥Â°Â¤ÃÂ½ÃÃÃÂ¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£
WindowsÂ¥Â·Â¥Â¹Â¥ÃÂ¥Ã Â¤ÃÂ¤ÃÂ¡Â¢Â¥Â¢Â¥ÃÂ¥ÃªÂ¥Â±Â¡Â¼Â¥Â·Â¥Ã§Â¥Ã³Â¥Â¤Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã-
Â¥Â°Â¤Ã²Â°ÃÃÂ£Â¤Â¹Â¤Ã«Â¡Â£
ÃÂ¾Â¤ÃÂ¥Â·Â¥Â¹Â¥ÃÂ¥Ã Â¤ÃÂ¤ÃÂ¡Â¢Â¥Ã¡Â¥ÃÂ¥Â»Â¡Â¼Â¥Â¸Â¤Ã**syslog**
Â¥ÂµÂ¡Â¼Â¥ÃÂ¥Â¹Â¤ÃÂ½ÃÃÃÂ¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£

serverport
Â¤Â³Â¤Ã¬Â¤ÃÂ¡Â¢**Zebedee**
Â¥ÂµÂ¡Â¼Â¥ÃÂ¤Â¬ÃÃÂ³Â¤Ã²ÃÃÂ¤ÃÂ¼ÂµÂ¤Â±Â¤Ã«Â¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÂ¤Â¢Â¤Ã«Â¡Â£
Â¥ÃÂ¥ÃÂ¥Â©Â¥Ã«Â¥ÃÂ¤ÃTCPÂ¥Ã¢Â¡Â¼Â¥ÃÂ¤ÃÂ¤Ã11965
(0x2EBD)Â¡Â¢UDPÂ¥Ã¢Â¡Â¼Â¥ÃÂ¤ÃÂ¤Ã11230(0x2BDE)Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£
Â¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ¤Â³Â¤Ã¬Â¤Ã²Â»ÃÃÂªÂ¤Â¹Â¤Ã«Â¤ÃÂ¡Â¢Â¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ¤Â³Â¤ÃÂ¥ÃÂ¡Â¼Â¥ÃÂ¤Ãlisten
Â¤Â¹Â¤Ã«Â¡Â£
Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ¤Â³Â¤Ã¬Â¤Ã²Â»ÃÃÂªÂ¤Â¹Â¤Ã«Â¤ÃÂ¡Â¢Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤Ã
Â¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ¤Â³Â¤ÃÃÃÂ¹Ã¦Â¤ÃÂ¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÃÃÃÂ³Â¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¤Ã«Â¡Â£

Â¥ÂµÂ¡Â¼Â¥ÃÂ¼Ã§ÃÂ³Â¤ÃÃÃÃÂ³(**listenmode** ÂµÃÂ¤Ã **clienthost**Â»Â²Â¾Ã)Â¤Ã²Â»ÃÃÃÂ¤Â¹Â¤Ã«Â¾Ã¬Â¹Ã§Â¤ÃÂ¡Â¢

Â¤Â³Â¤Ã¬Â¤ÃÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤Â¬Â¥ÂµÂ¡Â¼Â¥ÃÂ¤Â«Â¤Ã©Â¤ÃÃÃÂ³Â¤Ã²ÃÃÂ¤ÃÂ¼ÃµÂ¤Â±Â¤Ã«Â¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÂ¤Â³Â¤ÃÂ¤Ã¢Â°ÃÃÂ£Â¤Â¹Â¤Ã«Â¡Â£

timestamplog (Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã©Â¥Â¤Â¥Ã³Â¤ÃÂ¤Ã **–t**)

Â¤Â³Â¤Ã¬Â¤ÃÂ¡Â¢Â¥Ã- Â¥Â°Â¥Ã¡Â¥ÃÂ¥Â»Â¡Â¼Â¥Â¸Â¤ÃÂ¥Â¿Â¥Â¤Â¥Ã Â¥Â¹Â¥Â¿Â¥Ã³Â¥ÃÂ¤Ã²Â´ÃÂ¤Ã¡Â¤Ã«Â¤Â«Â¤ÃÂ¤Â¦Â¤Â«Â¤Ã²Â¼Â¨Â¤Â¹Â¿Â¿ÂµÂ¶ÃÃÂ¤ÃÂ¤Â¢Â¤Ã«Â¡Â£ Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã©Â¥Â¤Â¥Ã³Â¥ÂªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤Ã **–t** Â¤ÃÂ¤Â³Â¤Ã¬Â¤Ã²**true**Â¤ÃÃÃÃÂªÂ¤Â¹Â¤Ã«Â¤ÃÂ¤ÃÃÂ±Â¤Â¸Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£

udpmode (Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã©Â¥Â¤Â¥Ã³Â¤ÃÂ¤Ã **–u**)

Â¥ÃÂ¥ÃÂ¥Â©Â¥Ã«Â¥ÃÂ¤ÃÂ¤Ã**Zebedee**Â¤ÃÂ¡Â¢Â¥Â³Â¥ÃÂ¥Â¯Â¥Â·Â¥Ã§Â¥Ã³Â¥ÃÂ¡Â¼Â¥Â¹Â¤ÃTCP/IPÂ¤ÃÃÃÂ¿Â®Â¤Ã²Â°Â·Â¤Â¦Â¡Â£ Â¤Ã¢Â¤Â·Â¡Â¢Â¤Â³Â¤ÃÂ¥Â- Â¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤Â¬Â»ÃÃªÂ¤ÂµÂ¤Ã¬Â¤Ã«Â¤ÃÂ¡Â¢Â¤Â«Â¤Ã¯Â¤ÃªÂ¤ÃÂ¥Â³Â¥ÃÂ¥Â¯Â¥Â·Â¥Ã§Â¥Ã³Â¥Ã¬Â¥Â¹Â¤ÃUDP/IPÂ¤ÃÃÃÂ¿Â®Â¤Ã²Â°Â·Â¤Â¦Â¡Â£

Â¤Â³Â¤ÃÂ¾Ã¬Â¹Ã§Â¤ÃÂ¤Ã¢Â¡Â¢**Zebedee**Â¤ÃÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ´ÃÂ¤ÃÂ¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â¤ÃTCP/IPÃÃÃÂ³Â¤Ã²Â»ÃÃÃÂ¤Â¹Â¤Ã«Â¡Â£ UDPÂ¤ÃÂ°Â¸ÃÃ¨Â¤Â´Â¤ÃÂ¤ÃÃÃÂ¡Â¹Â¤ÃÃÃÃÂ³Â¤Â¬Â»ÃÃÂ¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£ UDPÂ¤ÃÂ¥Â³Â¥ÃÂ¥Â¯Â¥Â·Â¥Ã§Â¥Ã³Â¥Ã¬Â¥Â¹Â¤ÃÂ¤ÃÂ¤ÃÂ¡Â¢ÃÃÂ¿Â®Â¤Â¬Â´Â°ÃÂ»Â¤Â·Â¤Â¿Â¤Â³Â¤ÃÂ¤Ã²Â´ÃÃÂ±Â¤ÃÃÃÂ¤Ã«Â¤Â³Â¤ÃÃÂ¤ÃÂ¤ÃÃÂ¤Â- Â¤ÃÂ¤ÃÂ¡Â£ Â¤Â³Â¤ÃÃÂ½ÃÂ³Â¤ÃÂ¡Â¢**Zebedee**Â¤ÃÃÃÃÂ³Â¤ÃÂ°Ã¬ÃÃªÂ¤ÃÂ»Ã¾Â´ÃÃÃÂ¿Â®Â¤Â¬ÃÂµÂ¤Â¤Â¾Ã¬Â¹Ã§Â¤ÃÂ¥Â¿Â¥Â¤Â¥Ã Â¥Â¢Â¥Â¦Â¥ÃÂ¤Â¹Â¤Ã«ÃÂ¬ÃÃÂ¤Â¬Â¤Â¢Â¤Ã«Â¡Â£ Â¤Â³Â¤ÃÂ»Ã¾Â´ÃÂ¤Ã**udptimeout**Â¤ÃÃÃÂ¤ÃÃÂ©Â¸Ã¦Â¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£

Â¤Â¹Â¤ÃÂ¤ÃÂ¥Â¿Â¥Â¤Â¥Ã Â¥Â¢Â¥Â¦Â¥ÃÂ¤Â·Â¤ÃÂ¤Â·Â¤ÃÂ¤ÃÂ¤Â¿Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â¤ÃÂ¸Ã¾Â¤Â±Â¤Â¿Â¥ÃÂ¡Â¼Â¥Â¿Â¤Â¬Ã¾ÃÂ¥Â¤Â·Â¤Â¿Â¾Ã¬Â¹Ã§Â¡Â¢ ÃÃÃÂ³Â¤Ã²Â°ÃÂ³ÃÃÂ©Â¤Â¹Â¤Ã«ÃÂ¬ÃÃÂ¤Â¬Â¤Â¢Â¤Ã«Â¡Â£ Â¤Â³Â¤ÃÂ¤Â¿Â¤Ã¡Â¤ÃÂ¡Â¢Â¥Â¢Â¥ÃÂ¥ÃªÂ¥Â±Â¡Â¼Â¥Â·Â¥Ã§Â¥Ã³Â¤ÃÃÃÃÂ- Â¤ÃÂ¤Ã¨Â¤ÃÂ¤ÃÂ¤ÃÂ¡Â¢ UDPÂ¥Â¢Â¡Â¼Â¥ÃÂ¤ÃÂ¥ÃÂ¥ÃÂ¥Â©Â¡Â¼Â¥ÃÂ¥Ã³Â¥Â¹Â¤Ã¬Â¤Ã¨Â¤Ã¯Â¤ÃÂ¤ÃÂ¤Ã¨Â¤Â¦Â¤ÃÂ¸Â«Â¤Ã¨Â¤Ã«Â¤Â³Â¤ÃÂ¤Ã¢Â¤Â¢Â¤Ã«Â¡Â£ **keylifetime**Â¤ÃÃÃÂ¤Ã²ÃÃÂ¹Â¹Â¤Â·Â¤ÃÂ¡Â¢ ÃÃÃÂ³Â¤ÃÂ¥Â»Â¥ÃÂ¥ÃÂ¥Â¢Â¥ÃÂ¥ÃÂ¤ÃÂ»Â¾Â´ÃÂ¤Ã²Â°ÃÂ¾Â®Â¤ÃÂ¤Â¹Â¤Ã¬Â¤ÃÂ¡Â¢Â¥ÃÂ¥ÃÂ¥Â©Â¡Â¼Â¥ÃÂ¥Ã³Â¥Â¹Â¤Ã²Â¸Â¾Â¾Â¥ÂµÂ¤Â»Â¤Ã«Â¤Â³Â¤ÃÂ¤Ã¬Â¤ÃÂ¤Â- Â¤Ã«Â¡Â£ **udptimeout** Â¤ÃÃÃÂ¤Ã²ÃÃÂ¹Â¹Â¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤Ã¢ÃÂ±ÃÃÂ¤ÃÃÃ²Â¤ÃÃÂ©Â¤ÃÂ¡Â£

Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã©Â¥Â¤Â¥Ã³Â¥ÂªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤Ã**–u**Â¤ÃÂ¡Â¢Â¤Â³Â¤ÃÃÃÂ¤Ã²**true**Â¤ÃÃÃÃÂªÂ¤Â¹Â¤Ã«Â¤ÃÂ¤ÃÃÂ±Â¤Â¸Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£

udptimeout

Â¥ÃÂ¥ÃÂ¥Â©Â¥Ã«Â¥ÃÂ¤ÃÂ¤ÃÂ¡Â¢UDPÂ¥Ã¢Â¡Â¼Â¥ÃÂ¤ÃÂ¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â¤ÃÂ¡Â¢300ÃÃÃÂ¿Â®Â¤Â¬ÃÂµÂ¤ÃÂ¤ÃÃÃÃÂ¤Â¸Â¤Ã©Â¤Ã¬Â¤Ã«Â¡Â£ Â¤Â³Â¤ÃÂ¥ÃÂ¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÂ¤ÃÂ½Â¤ÃÂ»Ã¾Â´ÃÂ¤Ã²ÃÃÂ¹Â¹Â¤ÃÂ¤Â- Â¤Ã«(ÃÂ±Â°ÃÂ¤ÃÃÃ)Â¡Â£ Â¤Â³Â¤ÃÃÃÂ¤Ã65535Â¤Ã¨Â¤ÃªÃÃ§Â¤Â- Â¤Â¯Â¤ÃÃÂ¤ÃÃÂ¤ÃÃÂ¤ÃÂ¤Â±ÃÃÂ¤ÃÂ¡Â£ Â¤Â³Â¤Ã¬Â¤Ã²0Â¤ÃÂ¤Â¹Â¤Ã«Â¤ÃÂ°Ã¬ÃÃÃÂ¿Â®Â¤Â¬Â¹ÃÂ¤ÃÂ¤Ã¯Â¤Ã¬Â¤ÃÂ¤ÃÂ¤(Â¤Â½Â¤Â¦Â¤ÃÂ¤ÃÂ¤ÂÃÃÃªÂ¤Ã¢Â¤ÃÂ¤Â- Â¤Ã«Â¤Â±Â¤ÃÂ¡Ã)Â¡Â£

verbosity (Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã©Â¥Â¤Â¥Ã³Â¤ÃÂ¤Ã **–v**)

Â¤Â³Â¤Ã¬Â¤ÃÂ¡Â¢Â¥Ã- Â¥Â°Â¤Â¹Â¤Ã«Â¥Ã¡Â¥ÃÂ¥Â»Â¡Â¼Â¥Â¸Â¤ÃÂ¥Ã¬Â¥ÃÂ¥Ã«Â¤Ã²Â¼Â¨Â¤Â¹ÃÂ°Â¿Ã´ÃÃÂ¤ÃÂ¤Â¢Â¤Ã«Â¡Â£ 0Â¤ÃÂ¤ÃÂ¥Â¨Â¥Ã©Â¡Â¼Â¥Ã¡Â¥ÃÂ¥Â»Â¡Â¼Â¥Â¸Â¤ÃÂ¤Â±Â¡Â¢ 5Â¤ÃÂ¤Â¹Â¤Ã«Â¤ÃÂ¥Ã¡Â¥ÃÂ¥Â»Â¡Â¼Â¥Â¸Â¥ÃÂ¥Ã©Â¥ÃÂ¥Â£Â¥ÃÂ¥Â¯Â¤ÃÃÂ³Â¾Â¯Â¤ÃÂ°ÃÂ¤Â«Â¤Â¤Â¥ÃÂ¥Â£Â¥Ã¡Â¼Â¥Ã«Â¤ÃÂ¤ÃÂ´ÃÂ¤Ã¡Â¤Ã«Â¡Â£ Â¥ÃÂ¥ÃÂ¥Â©Â¥Ã«Â¥ÃÂ¤Ã1Â¤ÃÂ¤Â¢Â¤ÃªÂ¡Â¢ÃÃÂ¾Â¯Â¤ÃÂ¤Â½Â¤Â¬Â¤Â¬Â°ÃÂ¤Â¢Â¤Â»ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¤Â¹Â¤ÃÂ¡Â£

Â¥Ã¡Â¥ÃÂ¥Â»Â¡Â¼Â¥Â¸Â¤Ã *stderr* Â¤ÃÂ½ÃÃÃÂ¤ÂµÂ¤Ã¬Â¤Ã«(Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã©Â¥Â¤Â¥Ã³Â¥ÂªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤Ã**–o**Â¤Â« **logfile** Â¥Â- Â¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÂ¥ÃªÂ¥ÃÂ¥Â¤Â¥Ã¬Â¥Â¯Â¥ÃÂ¤ÂµÂ¤Ã¬Â¤ÃÂ¤Â¤Â¸ÃÂ¤Ãª) Â°Ã¬ÃÃÂªÂ¤ÃÂ¥Ã¡Â¥ÃÂ¥Â»Â¡Â¼Â¥Â¸Â¤ÃÂ¤Â³Â¤Ã³Â¤ÃÂ´Â¶Â¤Â¸Â¤ÃÂ¤Â¢Â¤Ã«:

```
zebedee(54/119):  Listening on local port 1172
```

Â¥Â«Â¥ÃÂ¥Ã³Â¤ÃÃÃ¦Â¤ÃÂ¿Ã´Â»ÃºÂ¤ÃÂ¥Ã¡Â¥ÃÂ¥Â»Â¡Â¼Â¥Â¸Â¤Ã²Â½ÃÃÃÂ¤Â·Â¤Â¿Â¥ÃÂ¥Ã- Â¥Â»Â¥Â¹Â¤ÃÂ¥Â¹Â¥Ã¬Â¥ÃÂ¥ÃÂ¤ÃIDÂ¤Ã²Â½Â¤Â·Â¤ÃÂ¤ÃÂ¤ÃÂ¤Ã«Â¡Â£ ÃÂ´Â¤ÃÂ¤ÃÂ¥Â¨Â¥Ã©Â¡Â¼Â¥Ã¡Â¥ÃÂ¥Â»Â¡Â¼Â¥Â¸Â¤ÃÂ¥Ã¬Â¥ÃÂ¥Ã«0Â¤ÃÂ¤ÃÃ¢Â¥Ã- Â¥Â°Â¤Â¬Â¼Â¨Â¤Ã©Â¤Ã¬Â¡Â¢ Â°ÃÂ²Â¼Â¤ÃÃÃÂ¤ÃÂ¡Â¢ÃÃ¨ÃÂ¬Â¤Â¬ `ERROR` Â¤ÃÂ¤ÃÂ¤Â¦ÃÂ±Â¸Ã¬Â¤Â«Â¤Ã©Â»ÃÂ¤ÃÂ¤Ã«Â¡Â£

```
zebedee(54/119): ERROR: failed to connect to localhost:11965
```

Â¥Ã¡Â¥ÃÂ¥Â»Â¡Â¼Â¥Â¸Â¤ÃÂ¥ÃÂ¥Â°Â¤Â¬Â¼Ã¨Â¤Ã©Â¤Ã¬Â¤Â¿Â¥Ã¬Â¥ÃÂ¥Ã«Â¤ÃÂ½Â¾Â¤ÃÂ¤ÃÂ¥Â¤Â¥Ã³Â¥ÃÂ¥Ã³Â¥ÃÂ¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£

ÃÃÂ»ÃÂ¤ÂµÂ¤Ã¬Â¤Â¿Â¥ÂÂ¡Â¼Â¥Ã¯Â¡Â¼Â¥Ã(Obsolete Keywords)

ZebedeeÂ¤Â³Â«ÃÂ¯Â¤ÃÃÂ¹Â¤Â¯ÃÂ³Â¤Â¤Â¤ÃÂ¤Â¤Â¤Ã«Â¤ÃÃÂ¤ÃÂ¡Â¢Â¥Â¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÂ°Ã¬ÃÃ´Â¤Ã¢Â¤Â³Â¤Ã¬Â¤ÃÃÃÂ±Ã¾Â¤Â·Â¤ÃÃÃÂ²Â½Â¤Â·Â¤ÃÃÂ¤Â¤Â¤Ã«Â¡Â£ ÃÃ³Â¡Â¢Â»Â°Â¤ÃÂ¥Â¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÃÂ¾Â¤ÃÂ¤Â¢Â¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÃÂ¤Â«Â¤Ã¯Â¤Ã©Â¤Ã¬ÃÃÂ»ÃÂ¤ÂµÂ¤Ã¬Â¤ÃÂ¤Â¤Â¤Ã«Â¡Â£ Â¸ÃÂ¤Â¤Â¥Â³Â¥Ã³Â¥ÃÂ¥Â£Â¥Â®Â¥Ã¥Â¥Ã¬Â¡Â¼Â¥Â·Â¥Ã§Â¥Ã³Â¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤ÃÃÃÂ¤Â¹Â¤Ã«Â¸Ã¥ÃÂ½Â¸ÃÂ´Â¹ÃÂ¤Ã²ÃÃÂ¤ÃÂ¤Â¿Â¤Ã¡Â¤ÃÃ¡Â¢ Â¤Â³Â¤Ã¬Â¤Ã©Â¤ÃÃÃÂ»ÃÂ¤ÂµÂ¤Ã¬Â¤Â¿Â¥Â¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÂ¢ÃÂ§Â¼Â±Â¤ÂµÂ¤Ã¬Â¤Ã«Â¤Â¬Â¡Â¢ Â¿Â·Â¤Â·Â¤Â¤Â¥Â³Â¥Ã³Â¥ÃÂ¥Â£Â¥Â®Â¥Ã¥Â¥Ã¬Â¡Â¼Â¥Â·Â¥Ã§Â¥Ã³Â¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤ÃÂ¤ÃÂ»ÃÂ¤Â¦Â¤ÃÂ¤Â¤ÃÃÂ¤ÃÂ¤ÃÂ¤Â¡Â£

clientport
: Â¤Â³Â¤ÃÂ¥ÂÂ¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÂ¤Ã¨Â¤ÃªÂ°Ã¬ÃÃÂªÂ¤Ã**tunnel**Â¤ÃÃÃÂ¤Â´Â¹Â¤Â¨Â¤Ã©Â¤Ã¬Â¤Â¿Â¡Â£

Â¤Â³Â¤Ã¬Â¤Ã**Zebedee**Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤Ã¬ÃÃÂ³Â¤Â²ÃÂ¤ÃÂ¥ÃÂ¡Â¼Â¥(Â¤Â¢Â¤Ã«Â¤Â¤Â¤ÃÂ¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÂ¥ÃªÂ¥Â¹Â¥Ã)Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£ Â¤Â³Â¤Ã¬Â¤ÃÂ¡ÃÂ¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â»ÃÃÂ¡ÃÂ¤ÃÂ°ÃÂ½Ã©Â¤ÃÃ´ÃÂ¬Â¤ÃÃÂ¹Â¤Â·Â¤Â¤Â¡Â£

localport
: Â¤Â³Â¤Ã¬Â¤ÃÂ¥ÃÂ¡Â¼Â¥Â¸Â¥Ã§Â¥Ã³ 2.0.0Â°ÃÂ°Â¤Ã**Zebedee**Â¤ÃÂ¤ÂªÂ¤Â±Â¤Ã«Â¡Â¢**clientport**Â¤ÃÃÂ¾ÃÂ°Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£

redirecthost
: Â¤Â³Â¤Ã¬Â¤ÃÂ¥ÃÂ¡Â¼Â¥Â¸Â¥Ã§Â¥Ã³ 2.0.0Â°ÃÂ°Â¤Ã**Zebedee**Â¤ÃÂ¤ÂªÂ¤Â±Â¤Ã«Â¡Â¢**targethost**Â¤ÃÃÂ¾ÃÂ°Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£

remoteport
: Â¤Â³Â¤Ã¬Â¤ÃÂ¥ÃÂ¡Â¼Â¥Â¸Â¥Ã§Â¥Ã³ 2.0.0Â°ÃÂ°Â¤Ã**Zebedee**Â¤ÃÂ¤ÂªÂ¤Â±Â¤Ã«Â¡Â¢**targetport**Â¤ÃÃÂ¾ÃÂ°Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£

targethost
: Â¤Â³Â¤ÃÂ¥ÂÂ¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÂ¤Ã¨Â¤ÃªÂ°Ã¬ÃÃÂªÂ¤Ã**tunnel**Â¤ÃÃÃÂ¤Â´Â¹Â¤Â¨Â¤Ã©Â¤Ã¬Â¤Â¿Â¡Â£

Â¤Â³Â¤ÃÂ¥ÂÂ¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÂ¡Â¢ **Zebedee**Â¥ÂµÂ¡Â¼Â¥ÃÂ¤Ã¬Â¥Â¡Â¼Â¥Ã«Â¥Ã«Â¥ÃÂ¥Â·Â¥Ã³Â¤ÃÂ¥ÃÂ¡Â¼Â¥ÃÂ¤Ã«Â¤Ã©Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â¤Â¹Â¤Ã«Â¥ÃÂ¥Â¹Â¥ÃÂ¤ÃÃÂ¾ÃÂ°Â¤Ã²ÃÂ¿Â¤Â¨Â¤Ã«Â¡Â£

targetport
: Â¤Â³Â¤ÃÂ¥ÂÂ¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÂ¤Ã¨Â¤ÃªÂ°Ã¬ÃÃÂªÂ¤Ã**tunnel**Â¤ÃÃÃÂ¤Â´Â¹Â¤Â¨Â¤Ã©Â¤Ã¬Â¤Â¿Â¡Â£

Â¤Â½Â¤Ã¬Â¤ÃÂ¡Â¢Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤Â¬ÃÃÂµÃ¡Â¤Â¹Â¤Ã«Â¥ÃÂ¡Â¼Â¥ÃÂ¤Ã«Â¥ÃÂ¡Â¼Â¥ÃÂ¥ÃªÂ¥Â¹Â¥Ã (**Zebedee**Â¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥ÃÂ¥Â¹Â¥ÃÂ¾Â¥Â¤ÃÂ¤Â½Â¤ÃÂ¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÃÃÂ³Â¤Â¹Â¤Ã«)Â¤Ã²Â°ÃÃÂ£Â¤Â¹Â¤Ã«Â¡Â£ Â¤Â³Â¤Ã¬Â¤ÃÂ¡ÃÂ¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â»ÃÃÂ¡ÃÂ¤ÃÂ°ÃÂ¸Â¥Â¤ÃÃ´ÃÂ¬Â¤ÃÃÂ¹Â¤Â·Â¤Â¤Â¡Â£

Â¤Â½Â¤ÃÃÂ¾Â¤ÃÂ¥ÂªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³(Other Options)

ÃÃÃªÂ¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤ÃÃÃ±Ã¾Â¤Â¹Â¤Ã«Â¤Â¢Â¤ÃÂ¤Ã²Â»Ã½Â¤Â¿Â¤ÃÂ¤Â¤Â¥Â³Â¥Ã³Â¥ÃÂ¥Ã³Â¥ÃÂ¥ÂªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³ Â¤Â¬Â¤Â¤Â¤Â¯Â¤ÃÂ¤Â«Â¤Â¢Â¤Ã«Â¤ÃÂ¤ÃÂ¡Â¢Â¤Â½Â¤Ã¬Â¤ÃÂ¤ÃÂ¤Â¤Â¤ÃÂ¤Â³Â¤Â³ÃÃÃ¢ÃÂ¤Â¹Â¤Ã«Â¡Â£

−p
: Â¤Â³Â¤ÃÂ¥ÂªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤Ã **Zebedee** Â¤ÃÃ«ÃÂ©Â¸Â°Â¤ÃÃÃÂ¤Ã²ÃÂ¸Â½Ã Â½ÃÃÂ¤ÃÂ½ÃÃÂ¤Â¹Â¤Ã«Â¡Â£ Â¤Â³Â¤ÃÂ½ÃÃÂ¤ÃÃÃÃªÂ¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤ÃÂ¤Â½Â¤ÃÂ¤ÃÂ»ÃÃÂ¤ÃÂ¤Â-

Â¤Ã«Â·ÃÂ¼Â°Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£ ÃÃ£Â¤Â¨Â¤ÃÂ¡Â¢

```
privatekey "c480bd48f707c69dec54c9e7b6e22dd04cac659e"
```

Â¤ÃÃÃÂ¤ÃÂ·ÃÂ¤ÃÂ¤Â¢Â¤Ã«Â¡Â£

−P Â¤Â³Â¤ÃÂ¥ÂªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤Ã **Zebedee** Â¤Ãidentity checking Â¤Ã Â»ÃÃÃÂ¤ÃÂ¤Â-
Â¤Ã«Â¥ÃÂ¥ÃÂ¥ÃªÂ¥ÃÂ¥Â¯Â¥Â¢Â¥Â¤Â¥ÃÂ¥Ã³Â¥ÃÂ¥Â£Â¥ÃÂ¥Â£Â¤Ã²ÃÂ¸ÃÂ®Â¤Â¹Â¤Ã«Â¡Â£Â·Ã«Â²ÃÂ¤ÃÃÂ¸Â½Ã Â½ÃÃÃÂ¤ÃÂ½Ã±Â¤Â«Â¤Ã¬Â¤Ã«Â¡Â£
ÃÃ£Â¤Â¨Â¤ÃÂ¡Â¢

```
ef8153a0e392df005f67321ca2f0ace5bb8c5a1f myhostname
```

Â¤ÃÃÃÂ¤ÃÂ·ÃÂ¤ÃÂ¤Â¢Â¤Ã«Â¡Â£

Â¤Â³Â¤ÃÂ¥ÂªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤ÃÃÃ«ÃÂ©Â¸Â°Â¤Ã²Â´ÃÂ¤Ã ÃÃÃªÂ¤ÃÂ¶Â¦Â¤ÃÂ»ÃÃªÂ¤Â¹Â¤Ã«Â¤Â«Â¡Â¢
−p
Â¤ÃÂ¶Â¦Â¤ÃÃÃÂ¤Â¤Â¤ÃÃÃ«ÃÂ©Â¸Â°Â¤ÃÂ¸Ã¸Â³Â«Â¸Â°Â¤Ã²ÃÂ¾ÃÃ½ÃÂ±Â»Ã¾Â¤ÃÃÂ¸ÃÂ®Â¤Â·Â¤ÃÂ¤Â¯Â¤ÃÂ¤ÃÂ¤Â¤Â¤Â±Â¤ÃÂ¤Â¤Â¡Â£

−h Â¤Â³Â¤ÃÂ¥ÂªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤ÃÂ°ÃÂ¹ÃÂ¤ÃÂ°ÃºÂ¿Ã´Â¤Ã²Â¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«ÃÂ¾Â¤ÃÂ¤ÃÂ¤ÃÂ¹Â¡Â£
Â¤Â½Â¤Â·Â¤ÃÂ¡Â¢Â¤Â½Â¤Ã¬Â¤Â¾Â¤Ã¬Â¤ÃÂ¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤Ã8192Â¥ÃÂ¥Â¤Â¥ÃÂ¤ÃÂ¤Â«Â¤Â¿Â¤ÃÂ¤ÃªÂ¤ÃÂ¤Â·Â¤ÃÃÃÂ¤ÃÂ¤Â³Â¤ÃÂ¤Ã¬Â¡Â¢
SHAÂ¥ÃÂ¥ÃÂ¥Â·Â¥Ã¥Â¤Â¬Â·ÃÂ»Â»Â¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£
Â°ÃºÂ¿Ã´Â¤Â¬Â¤ÃÂ¤Â¤Â¾Ã¬Â¹Ã§Â¤ÃÂ°ÃºÂ¿Ã´Â¤Â¬"−"Â¤ÃÂ¤Â¢Â¤ÃÂ¤Â¿Â¾Ã¬Â¹Ã§Â¤ÃÃÂ¸Â½Ã ÃÃ¾ÃÃÂ¤ÃÂ¥ÃÂ¥ÃÂ¥Â·Â¥Ã¥Â¤Â¬Â·ÃÂ»Â»Â¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£
ÃÃ£Â¤Â¨Â¤ÃÂ¡Â¢

```
$ zebedee -h /etc/passwd
bb1e734aeffd2111417761f5938dea3b53759598 /etc/passwd
$ zebedee -h < /etc/passwd
bb1e734aeffd2111417761f5938dea3b53759598 -
```

Â¤ÃÃÃÂ¤ÃÂ·ÃÂ¤ÃÂ¤Â¢Â¤Ã«Â¡Â£

−H Â¤Â³Â¤ÃÂ¤Ã©Â¤Ã**−h**Â¤ÃÂ»Ã·Â¤ÃÂ¤Â¤Â¤Ã«Â¤Â¬Â¡Â¢Â°ÃºÂ¿Ã´Â¤Â¬ÃÂ¸Â»ÃºÃ³Â¤ÃÂ¤Â·Â¤ÃÂ°Â·Â¤Ã¯Â¤Ã¬Â¡Â¢
Â¤Â½Â¤ÃÃÂ¸Â»ÃºÃ³Â¤ÃSHAÂ¥ÃÂ¥ÃÂ¥Â·Â¥Ã¥Â¤Â¬Â·ÃÂ»Â»Â¤ÂµÂ¤Ã¬ÃÂ½Â¼Â¨Â¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£

```
$ zebedee -H hello world
ac62a630ca850b4ea07eda664eaecf9480843152 hello
86bf25ecb8a40b40b885c097c683b6e236fc8085 world
```

−S (Windows only)
WindowsÂ¥Â·Â¥Â¹Â¥ÃÂ¥Ã Â¤ÃÂ¤Ã **Zebedee** Â¤Ã²
Â¥ÂµÂ¡Â¼Â¥ÃÂ¥Â¹(Â¥ÃÂ¡Â¼Â¥ÃÂ»Ã¾Â¤ÃÂ¼Â«ÃÂ°ÃÂªÂ¤ÃÂµÂ¯ÃÂ°Â¤ÂµÂ¤Ã¬ÃÃÂ©Â¤Â·Â¤ÃÃÂ°Â¤Â¯Â¥ÃÂ¥Ã-
Â¥Â»Â¥Â¹)Â¤ÃÂ¤Â·Â¤Ã Â¥Â¤Â¥Ã³Â¥Â¹Â¥ÃÂ¡Â¼Â¥Ã«Â¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤Ã¢Â¤ÃÂ¤Â-
Â¤Ã«Â¡Â£

ZebedeeÂ¤Ã**install**Â¥ÃÂ¥Ã©Â¥Ã¡Â¡Â¼Â¥Â¿Â¤ÃÃÃÃªÂ¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤ÃÃÂ¾ÃÂ°Â¤Ã²Â»ÃÃªÂ¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤Ã
Â¥ÂµÂ¡Â¼Â¥ÃÂ¥Â¹Â¤ÃÂ¤Â·Â¤ÃÂ¥Â¤Â¥Ã³Â¥Â¹Â¥ÃÂ¡Â¼Â¥Ã«Â¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£ÃÃ£Â¤Â¨Â¤ÃÂ¡Â¢

```
zebedee -Sinstall=c:\zebedee\service.zbd
```

Â¤ÃÃÃÂ¤ÃÂ·ÃÂ¤ÃÂ¤Â¢Â¤Ã«Â¡Â£

Â¾Ã¯Â¤ÃÂ¡Â¢ÃÃÃªÂ¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤ÃÂ¥ÃÂ¥Ã«Â¥ÃÂ¥Â¹Â¤Ã²Â»ÃÃªÂ¤Â·Â¤ÃÂ¤Â±Â¤Ã¬Â¤ÃÂ¤ÃÃ©Â¤ÃÂ¤Â¤Â¡Â£
Â¤Â³Â¤ÃÂ¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤ÃÂ¥Â¹Â¥Â¿Â¡Â¼Â¥ÃÂ¥Â¢Â¥ÃÂ¥ÃÂ»Ã¾Â¤ÃÃÃÂ¤ÃÂ¤Â³Â¤ÃÂ¤Ã¬Â¡Â¢
Â¥ÂµÂ¡Â¼Â¥ÃÂ¥Â¹Â¤Â¬ÃÂ°ÂºÃ®Â¤Â¹Â¤Ã«Â¤Â¿Â¤Ã¡Â¤ÃÃÂ¬ÃÃÂ¤ÃÂ¥ÃÂ¥Ã©Â¥Ã¡Â¡Â¼Â¥Â¿Â¤Ã²ÃÂ´Â¤ÃÂ´ÃÂ¤Ã³Â¤ÃÂ¤Â¤Â¤ÃÂ¤Â±Â¤Ã¬Â¤ÃÂ¤ÃÃ©Â¤ÃÂ¤Â¤Â¡Â£

Â¥ÃÂ¥ÃÂ¥Â©Â¥Ã«Â¥ÃÂ¤ÃÂ¤ÃÂ¡Â¢
Â¥Â¤Â¥Ã³Â¥Â¹Â¥ÃÂ¡Â¼Â¥Ã«Â¤ÂµÂ¤Ã¬Â¤Ã«Â¥ÂµÂ¡Â¼Â¥ÃÂ¥Â¹Â¤ÃÃÂ¾ÃÂ°Â¤ÃÂ¥ÃÂ¥Ã-
Â¥Â°Â¥Ã©Â¥Ã Â¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤ÃÃÂ¾ÃÂ°Â¤Â«Â¤Ã©Â¼Ã¨Â¤Ã©Â¤Ã¬Â¤Ã«Â¡Â£
Â½Â¾Â¤ÃÂ¤ÃÃÃÂ¾Ã¯Â¤Ã**Zebedee**Â¤ÃÂ¤ÃÂ¤Ã«Â¡Â£
Â¤Â·Â¤Â«Â¤Â·Â¡Â¢**−n**Â¥ÂªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤Ã²Â»ÃÃÂ¤Â·Â¤ÃÃÃÂ¹Â¹Â¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤Ã¢Â¤ÃÂ¤Â-
Â¤Ã«Â¡Â£

```
zebedee -n "Zebedee Client Service" -Sinstall=c:\zebedee\clientsvc.zbd
```

Â°Ã¬ÃÂ¶Â¡Â¢Â¥ÂµÂ¡Â¼Â¥ÃÂ¥Â¹Â¤Â¬Â¥Â¤Â¥Ã³Â¥Â¹Â¥ÃÂ¡Â¼Â¥Ã«Â¤ÂµÂ¤Ã¬Â¤Ã«Â¤ÃÂ¡Â¢Â¼Â¡Â¤ÃÂ¥Â·Â¥Â¹Â¥ÃÂ¥Ã Â°ÃÂµÂ¯ÃÂ°Â¤Â«Â¤Ã©Â¼Â«ÃÂ°ÃÂªÂ¤ÃÂµÂ¯ÃÂ°Â¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£
Â¤Ã¢Â¤Â·Â¤Â¯Â¤Ã(Windows NTÂ¤ÃÂ¾Ã¬Â¹Ã§)Â¥ÂµÂ¡Â¼Â¥ÃÂ¥Â¹Â¥Â³Â¥Ã³Â¥ÃÂ¥Ã-
Â¡Â¼Â¥Ã«Â¥ÃÂ¥ÃÂ¥Ã«Â¤ÃÂ¼ÃªÃÂ°ÂµÂ¯ÃÂ°Â¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤Ã¢Â¤ÃÂ¤Â-
Â¤Ã«Â¡Â£

Â¥ÂµÂ¡Â¼Â¥ÃÂ¥Â¹Â¤Ã²Â°Ã¯Â½Ã¼Â¤Â¹Â¤Ã«Â¤ÃÂ¤ÃÂ¤ÃÂ°Â¥ÂµÂ¡Â¼Â¥ÃÂ¥Â¹Â¤Ã²Â½ÂªÃÂ»Â¤Â·Â¤ÃÂ¤Â«Â¤Ã©Â¡Â¢**–S**Â¥ÂªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤Ã
remove Â¥ÃÂ¥Ã©Â¥Ã¡Â¡Â¼Â¥Â¿Â¤Ã²Â»ÃÂ¤Â¦Â¡Â£
Â¤Â½Â¤Â·Â¤ÃÂ¡Â¢Â¤Ã¢Â¤Â·ÃÂ¬ÃÃÂ¤ÃÂ¤Ã©Â¤Ã**–n**Â¥ÂªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¥Â¹Â¤ÃÃÂ¾Â¾ÃÂ¤Ã²Â»ÃÃªÂ¤Â¹Â¤Ã«Â¡Â£
ÃÃ£Â¤Â¨Â¤ÃÂ¡Â¢

```
zebedee -n "Zebedee Client Service" -Sremove
```

Â¤ÃÃÂ¤ÃÂ·ÃÂ¤ÃÂ¤Â¢Â¤Ã«Â¡Â£

–SÂ¤ÃÂ¥ÃÂ¥Ã©Â¥Ã¡Â¡Â¼Â¥Â¿Â¤ÃÃÂ¾Â¤Ã **run**
Â¤Â¬Â¤Â¢Â¤Ã«Â¡Â£Â¤Â³Â¤Ã¬Â¤ÃÃÃ¢ÃÂ´Â¤Ã **Zebedee** Â¤Ã
Â¥ÂµÂ¡Â¼Â¥ÃÂ¥Â¹Â¥Â¹Â¥Â¿Â¡Â¼Â¥ÃÂ¥Â¢Â¥ÃÂ¥ÃÂ¥Â³Â¡Â¼Â¥ÃÂ¤Ã²ÂµÂ¯ÃÂ°Â¤Â¹Â¤Ã«Â¤Â¿Â¤Ã¡Â¤ÃÂ»ÃÂ¤Â¦Â¤Ã¢Â¤ÃÂ¤ÃÂ¡Â¢
Â¥Ã¦Â¡Â¼Â¥Â¶Â¤Â¬ÃÂ¾ÃÂ»ÃÃÂ¤Â·Â¤ÃÂ¤ÃÂ¤ÃÂ¤Ã©Â¤ÃÂ¤Â¤Â¡Â£

−x Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã©Â¥Â¤Â¥Ã³Â¤ÃÂ»ÃÃªÂ¤ÃÂ¤Â-
Â¤ÃÂ¤Â¤ÃÃÃªÂ¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤ÃÂ¥ÃÂ¥Ã©Â¥Ã¡Â¡Â¼Â¥Â¿Â¤Ã²
Â»ÃÃªÂ¤Â¹Â¤Ã«Â¤Â¿Â¤Ã¡Â¤ÃÂ¡Â¢Â¤Â³Â¤ÃÂ¥ÂªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤Ã²Â»ÃÃÂ¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤Ã¢Â¤ÃÂ¤Â-
Â¤Ã«Â¡Â£ Â¤Â³Â¤Ã¬Â¤ÃÃÂ¸Â»ÂºÃ³Â¤ÃÂ°ÃºÂ¿Ã´Â¤Ã²Â¤ÃÂ¤Â±Â¤Ã«Â¤ÃÂ¡Â¢
Â¤Â½Â¤Ã¬Â¤Â¬Â¤Â¢Â¤Â¿Â¤Â«Â¤Ã¢ÃÃÃªÂ¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤Ã1Â¹ÃÂ¤ÃÂ¤Â¢Â¤Ã«Â¤Â«Â¤ÃÂ¤Ã¨Â¤Â¦Â¤ÃÂ½Ã¨ÃÂ½Â¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£
Â¥Â³Â¥Ã¡Â¥Ã³Â¥ÃÂ¤ÃÃÂ§Â¼Â±Â¤ÂµÂ¤Ã¬Â¤Ã«Â¤Â¬Â¡Â¢“\”Â¤ÃÂ·ÃÃÂ³Â¹ÃÂ¤ÃÂ»ÃÃÃÂ¤ÃÂ¤Â-
Â¤ÃÂ¤Â¤Â¡Â£ ÃÃ£Â¤Â¨Â¤ÃÂ¡Â¢

```
zebedee -x " server true # It’s a server!"
```

Â¤ÃÂ¤Â¤Â¤Â¦Â¤ÃÂ¤Ã¯Â¤ÃªÂ¤Â¯Â¤ÃÂ¤Â¤Â¤ÃÂ¤ÃªÂ¤Â«Â¤Â¿Â¤ÃÂ¤Ã¢Â¼Â¡Â¤ÃÂ¥Â³Â¥ÃÂ¥Ã³Â¥Ã

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zebedee -s
```

Â¤ÃÃÂ±Â¤Â¸Â¸ÃºÂ²ÃÂ¤Ã²ÃÃÂ¤Ã«Â¤Â³Â¤ÃÂ¤Â¬Â¤ÃÂ¤ÂÂ¤Ã«Â¡Â£

Â¥Â¯Â¥Â¤Â¥ÃÂ¥Â¯Â¥ÃªÂ¥ÃÂ¥Â¡Â¥Ã¬Â¥Ã³Â¥Â¹(Quick–Reference Summary)

Â°ÃÂ²Â¼Â¤ÃÂ°Ã¬ÃÂ·ÃÂ½Â¤ÃÂ¡Â¢ÃÂ§Â¼Â±Â¤ÂµÂ¤Ã¬Â¤Ã«Â¥Â-
Â¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¡Â¢Â°ÃºÂ¿Ã´Â¡Â¢Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã©Â¥Â¤Â¥Ã³Â¤ÃÃÂ±ÃÂ¹Â¥ÂªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¡Â¢
Â»ÃÃªÂ¤ÃÂ¤Â-
Â¤Ã«Â¤ÃÂ¤Â¬Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥Ã(C)Â¤Â«Â¥ÂµÂ¡Â¼Â¥Ã(S)Â¤ÃÂ¤Â¿Â¤ÃÃÂ¾ÃÂ½(CS)Â¡Â¢Â´ÃÃÂ±Â¤ÃÃÃ¢ÃÃÂ¡Â¢
Â¤Ã²Â¼Â¨Â¤Â¹Â¡Â£

```
checkidfile     filename       CS  ÃÃªÂ¼ÃªÃÂ¦Â¤Ã²ÃÂ§Â¾ÃÂ¤Â¹Â¤Ã«
clienthost      hostname  -c   S   Â¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¥ÃÂ¥Â¹Â¥ÃÂ¤ÃÃÃÃÂ³Â¤Â¹Â¤Ã«Â¤Ã¨Â¤Â¦Â»ÃÂ¼Â¨Â¤Â¹Â¤Ã«
command         string    -e   C   Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«ÃÃÃÂ³Â»Ã¾Â¤ÃÂ¼ÃÂ¹ÃÂ¤Â¹Â¤Ã«Â¥Â³Â¥ÃÂ¥Ã³Â¥Ã
compression     level     -z   CS  ÃÃÂµÃ¡Â¤Â¹Â¤Ã«Â°ÂµÂ½ÃÂ¥Ã¬Â¥ÃÂ¥Ã«Â¤ÃÂ°ÃÃÃ§ÃÃ
connecttimeout  seconds        CS  ÃÃÃÂ³Â¤Ã²Â¼ÃµÂ¤Â±Â¤ÃÃÂ¤Â±Â¤Ã«Â¤ÃÃÂ¤ÃÃÂ¤ÃÃÃÃÂ¤ÃÃÂ»Ã¾Â´Ã
debug           boolean        CS  Â¥Â·Â¥Ã³Â¥Â°Â¥Ã«Â¥Â¹Â¥Ã¬Â¥ÃÂ¥ÃÂ¤ÃÂ¥ÃÂ¥ÃÂ¥ÃÂ¥Â°Â¥Ã¢Â¡Â¼Â¥ÃÂ¤ÃÂ¼ÃÂ¹ÃÂ¤Â¹Â¤Ã«
detached        boolean   -d   CS  ÃÂ¼ÃÃ¶/Â¥Â³Â¥Ã³Â¥Â½Â¡Â¼Â¥Ã«Â¤Â«Â¤Ã©ÃÃÃÂ¥Â¤Â¹
generator       string         CS  Â¡ÃDiffie-Hellman generator valueÂ¡ÃÂ¤Ã16Â¿ÃÂ¿Ã´
include         filename  -f   CS  Â¥Â³Â¥Ã³Â¥ÃÂ¥Â£Â¥Â®Â¥Ã¥Â¥Ã¬Â¡Â¼Â¥Â·Â¥Ã§Â¥Ã³Â¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤Ã²ÃÃÂ¤ÃÂ¤Â³Â¤Ã
keygencommand   string         CS  Â¥ÃÂ¡Â¼Â¤Ã²ÃÂ¸ÃÂ®Â¤Â¹Â¤Ã«Â¥Â³Â¥ÃÂ¥Ã³Â¥Ã
keygenlevel     level          CS  ÃÂ¸ÃÂ®Â¤Â¹Â¤Ã«Â¥ÃÂ¡Â¼Â¤ÃÂ¶Â¯ÃÃ(0Â¤Â«Â¤Ã©2)
keylength       bits           CS  ÃÃÂµÃ¡Â¤Â¹Â¤Ã«Â¥ÃÂ¡Â¼Â¤ÃÃÂ®Â¤ÂµÂ¤ÃÂ°ÃÃÃ§ÃÃ(Â¥ÃÂ¥ÃÂ¥ÃÃÂ±Â°Ã)
keylifetime     seconds        CS  ÃÃ«ÃÂ©Â¸Â°Â¤ÃÂ¼Ã·ÃÂ¿
listenmode      boolean   -l   C   Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÃÃÃÂ³Â¤Ã²ÃÃÂ¤ÃÂ¤Ã¨Â¤Â¦Â»ÃÂ¼Â¨Â¤Â¹Â¤Ã«
localsource     boolean        C   Â¥ÃÂ¡Â¼Â¥Â«Â¥Ã«Â¥ÃÂ¥Â·Â¥Ã³Â¤Â«Â¤Ã©Â¤ÃÃÃÃÂ³Â¤ÃÂ¤ÃÂ¤Ã²Â¼ÃµÂ¤Â±Â¤ÃÂ¤Â±Â¤Ã«
logfile         filename  -o   CS  Â¥ÃÂ¥Â°Â¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤Ã²ÃÃÃÂª
maxbufsize      bytes          CS  Â¥ÃÂ¡Â¼Â¥Â¿ÃÃÂ¤ÃÂ¹Ã¾Â¤ÃÃÃÂ¤ÃÂ¥ÃÂ¥ÃÂ¥ÃÂ¥Â¡Â¡Â¼Â¥ÂµÂ¥Â¤Â¥Â°Â¤Ã²Â»ÃÃÂª
message         string         CS  Â»ÃÃÂªÂ¤ÂµÂ¤Ã¬Â¤Â¿ÃÂ¸Â»Ã°ÃÃ³Â¤Ã²Â½ÃÃÃÂ¤Â¹Â¤Ã«
minkeylength    bits           CS  Â¼ÃµÂ¤Â±Â¤ÃÃÂ¤Â±Â¤Ã«Â¥ÃÂ¡Â¼ÃÂ¹Â¤ÃÂ°ÃÂ¾Â®ÃÃ
modulus         string         CS  Â¡ÃDiffie-Hellman modulus valueÂ¡ÃÂ¤Ã16Â¿ÃÂ¿Ã´
multiuse        boolean   -m   C   ÃÂ£Â¿Ã´Â¤ÃÃÃÃÂ³Â¤Ã²Â°Â·Â¤Â¦
name            string         CS  Â¥ÃÂ¥ÃÂ¥Â°Â¥ÃÂ©Â¥Ã ÃÂ¾Â¤Ã²Â»ÃÃÂªÂ¤Â¹Â¤Ã«
privatekey      string         CS  ÃÃ«ÃÂ©Â¸Â°Â¤Ã16Â¿ÃÂ¿Ã´
redirect        ports     -r   S   Â¥ÂµÂ¡Â¼Â¥ÃÂ¤Â¬Â¥ÃªÂ¥ÃÂ¥Â¤Â¥Ã¬Â¥Â¯Â¥ÃÂ¤Â¹Â¤Ã«Â¥ÃÂ¡Â¼Â¥Ã
server          boolean   -s   CS  Â¥ÂµÂ¡Â¼Â¥ÃÂ¥Ã¢Â¡Â¼Â¥ÃÂ¤Â«Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¥Ã¢Â¡Â¼Â¥ÃÂ¤Â«
serverhost      hostname       C   ÃÃÃÂ³Â¤Â¹Â¤ÃÂ¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÃÂ¾ÃÂ°
serverport      port      -T   CS  Â¥ÂµÂ¡Â¼Â¥ÃÂ¤Â¬ÃÃÂ¤ÃÂ¤Â¦Â¤Â±Â¤Ã«Â¥ÃÂ¡Â¼Â¥ÃÃÃÂ¹Ã¦
target          spec           S   Â¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¤Ã«Â¥ÃÂ¥Â¹Â¥ÃÂ¤ÃÂ¥ÃÂ¡Â¼Â¥ÃÂ¤Ã²Â»ÃÃÂªÂ¤Â¹Â¤Ã«
timestamplog    boolean   -t   CS  Â¥ÃÂ¥Â°Â¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤ÃÂ¥Â¿Â¥Â¤Â¥Ã Â¥Â¹Â¥Â¿Â¥Ã³Â¥ÃÂ¤Ã²ÃÃÂ²ÃÂ¤Â¹Â¤Ã«
tunnel          spec           C   Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÃÃÂ±Ã¾Â¤Â¹Â¤Ã«Â¥Â¿Â¡Â¼Â¥Â²Â¥ÃÂ¥ÃÂ¤Ã²Â»ÃÃÂªÂ¤Â¹Â¤Ã«
udpmode         boolean   -u   CS  UDPÂ¤ÃÃÃÂ¿Â®Â¤Ã²Â°Â·Â¤Â¦
udptimeout      seconds        CS  UDPÂ¤ÃÂ¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â¤ÃÂ¤ÂªÂ¤Â±Â¤Ã«ÃÂµÃÃÂ¿Â®Â¤ÃÃÃÂ¤ÃÂ»Ã¾Â´Ã
verbosity       level     -v   CS  Â¥Ã¡Â¥ÃÂ¥Â»Â¡Â¼Â¥Â¸Â¤ÃÂ¥ÃÂ¥Â°Â¥Ã¬Â¥ÃÂ¥Ã«Â¤Ã²ÃÃÃÂªÂ¤Â¹Â¤Ã«
```

Â°ÃÂ²Â¼Â¤ÃÂ¥ÂªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤ÃÂ¤ÃÂ¥Â- Â¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÃÃÂ±Ã¾Â¤Â¹Â¤Ã«Â¤Ã¢Â¤ÃÂ¤Â¬Â¤ÃÂ¤Â¤

```
-p  ÃÃ«ÃÂ©Â¸Â°Â¤Ã²ÃÂ¸ÃÂ®Â¤Â¹Â¤Ã«
-P  Â¥ÃÂ¥ÃÂ¥ÂªÂ¥ÃÂ¥Â¯Â¥Â¢Â¥Â¤Â¥ÃÂ¥Ã³Â¥ÃÂ¥Â£Â¥ÃÂ¥Â£Â¤Ã²ÃÂ¸ÃÂ®Â¤Â¹Â¤Ã«
-h file
   Â¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤ÃÃÃ¢ÃÃÂ¤Ã²Â¥ÃÂ¥ÃÂ¥Â·Â¥Ã¥Â¤Â·Â¤ÃÂ·Ã«Â²ÃÂ¤Ã²ÃÂ½Â¼Â¨Â¤Â¹Â¤Ã«
-Sinstall=file
   Â»ÃÃÂªÂ¤ÂµÂ¤Ã¬Â¤Â¿Â¥Â³Â¥Ã³Â¥ÃÂ¥Â£Â¥Â®Â¥Ã¥Â¥Ã¬Â¡Â¼Â¥Â·Â¥Ã§Â¥Ã³Â¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤ÃÂ¤ÃÂ¤Ã¢Â¤ÃWindowsÂ¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¥Â¹Â¤ÃÂ¤Â·Â¤ÃÂ¥Â¤Â¥Ã³Â¥Â¹Â¥ÃÂ¡Â¼Â¥Ã«Â¤Â¹Â¤Ã«
-Sremove
   WindowsÂ¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¥Â¹Â¤Ã²Â°Ã¯Â½Ã¼Â¤Â¹Â¤Ã«
-x string
   Â¥ÂªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³ÃÂ¸Â»Ã°ÃÃ³Â¤Ã²Â²Ã²Â¼Ã¡Â¤Â¹Â¤Ã«
```

Identity Checking

Zebedee

Â¤ÃÂ¥ÃÂ¥ÃÂ¥Â©Â¥Ã«Â¥ÃÂ¤ÃÂ¤ÃÂ¡Â¢2ÃÃÂ´ÃÂ¤ÃÂ°ÃÂ¹Ã¦Â²Â½Â¥ÃÂ¥Ã£Â¥ÃÂ¥Ã«Â¤Ã²ÃÂ¸ÃÂ®Â¤Â¹Â¤Ã«Â¤ÃÂ²Ã¡Â¤Â®Â¤ÃÂ¤Â¤Â¡Â£ Â¤Â´Â¾ÂµÃÃÂ¤ÃÃÃÂ¤ÃªÂ¡Â¢Â¥ÃÂ¡Â¼Â¥Â¿Â¤Ã "on the wire (ÃÃÂ¿Â®ÃÃ¾Â¾Ã¥)" Â¤ÃÂ¤ÃÃÂ°ÃÂ°Â¤Â«Â¤Ã©Â¤ÃÂ¼Ã©Â¤Ã©Â¤Ã¬Â¤Â«Â¤Â¬Â¡Â¢ Â¤Â¢Â¤ÃÂ¤Â¿Â¤Â¬ÃÃÃÂªÂ¤Â·Â¤ÃÂ¤Â¤Â¤Ã«ÃÃªÂ¼ÂªÂ¤ÃÃÃÃÂ³Â¤ÂµÂ¤Ã¬Â¤ÃÂ¤Â¤Â¤Ã«Â¤Â«ÃÃÂ¤Â«Â¤ÃÃÃÂ¾ÃÂ¤ÂµÂ¤Ã¬Â¤ÃÂ¤Â¤Â¡Â£ Â¤Â³Â¤Ã¬Â¤ÃÂ¡Â¢"man-in-the-middle (ÃÃ¨Â»Â°Â¼ÃÂ¤ÃÂ¤Ã¨Â¤Ã«Â²Â£Â¼Ã¨Â¤Ãª)"

Â¥Â¢Â¥Â¿Â¥ÃÂ¥Â¯Â¤ÃÃÃÂ¤Â·Â¤ÃÂ¤ÃÃÂµÃÃÃ·Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£
Â¤Ã¢Â¤Â·Â¡Â¢Â¤Â¢Â¤ÃÂ¤Â¿Â¤Â¬Â¥ÃÂ¡Â¼Â¥Â¿Â¤ÃÂ°ÂµÂ½ÃÂ¤ÃÂ¡Â¢ÃÃ°ÃÂ°Â¤Â«Â¤Ã©Â¼Ã©Â¤Â«Â¤Â³Â¤ÃÂ¤Ã²ÃÃ¨Â°Ã¬Â¤ÃÂ¿Â´ÃÃÂ¤Â·Â¤ÃÂ¤Â¤Â¤Ã«Â¤ÃÂ¤Ã©Â¡Â¢
Â¤Ã¢Â¤ÃÂ¤Â¿Â¤ÃÂ¤Â³Â¤ÃÂ¾Ã²Â·Ã¯Â¤ÃÃÂ¾ÃÂ¤Â¹Â¤Ã«Â¤ÃÂ¤ÃÃÂ¤Â¦Â¡Â£
Â¤Â·Â¤Â«Â¤Â·Â¡Â¢Â¤Â¢Â¤ÃÂ¤Â¿Â¤ÃÃÃÂ¿Â®Â¤Â¬ÃÃ¨Â»Â°Â¼ÃÂ¤ÃÃ²Â£Â¼Ã¨Â¤ÃªÂ¤ÂµÂ¤Ã¬Â¤ÃÂ¤Â¤Â¤ÃÂ¤Â¤Â¤Â³Â¤ÃÂ¤ÃÃÃÂ¤Â¹Â¤Ã«ÃÃ¾ÃÂ¤Ã²ÂµÃ¡Â¤Ã¡Â¤Ã«Â¤ÃÂ¤Ã©Â¡Â¢
Zebedee Â¤ÃÂ¤Â½Â¤Ã¬Â¤Ã²Â¹ÃÂ¤Â¦Â¤Â¿Â¤Ã¡Â¤ÃÃÃÂµÂ¹Â¤Ã²Ã³Â¶Â¡Â¤Â¹Â¤Ã«Â¡Â£

Â¤Ã¢Â¤Â·Â¡Â¢ÃÂ±Â°Ã¬Â¤ÃÃÃ¿Ã´Â¤ÃÂ¸Â¶Â»ÃÂ°Â¬Â¤ÃÃÃ«ÃÂ©Â¸Â°Â¤Â¬ÃÃÂ¤Â¤Â¤Ã©Â¤Ã¬Â¤Ã«Â¤ÃÂ¤Ã©Â¡Â¢Â¤Â½Â¤Ã¬Â¤Ã©Â¤Ã
Diffie-Hellman Â¤ÃÂ¸Â°Â¸Ã²Â´Â¹Â¥ÃÂ¥Ã-Â¥ÃÂ¥Â³Â¥Ã«Â¤ÃÂ¤Â¿Â¤Ã¡Â¤ÃÂ¡Â¢Â¾Ã¯Â¤ÃÃÂ±Â¤Â¸Â¸Ã¸Â³Â«Â¸Â°Â¤Ã²ÃÂ¸ÃÂ®Â¤Â¹Â¤Ã«Â¤ÃÂ¤Ã-Â¤Â¦Â¡Â£ Â¤Ã¢Â¤Â·Â¡Â¢Â¤Â¢Â¤ÃÂ¤Â¿Â¤Â¬(ÃÃÃªÂ¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤Ã**privatekey**Â¥Â-Â¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÂ¤ÃÃÃÃªÂ¤ÂµÂ¤Ã¬Â¤Â¿)
Â¸ÃÃªÂ¤ÂµÂ¤Ã¬Â¤Â¿Ã«ÃÂ©Â¸Â°Â¤Ã²ÃÃÂ¤Â¤Â¤Ã«Â¤ÃÂ¤Ã©Â¡Â¢ **Zebedee** Â¤ÃÃÃÂ¿Ã´Â¤ÃÂ¸Â¶Â»ÃÂ°Â¬Â¤ÃÃÃ«ÃÂ©Â¸Â°Â¤ÃÃÃÂ¤ÃÃÂ´Â¤ÃÂ¤Ã²Â¥ÃÂ¥Â¥ÃÂ¥Â·Â¥Ã¥Â¥Â·Â¤Ã
"fingerprint (Â»ÃÃÂ¦)" Â¤Ã²ÃÂ¸ÃÂ®Â¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤Â¬Â¤ÃÂ¤ÃÂ¤Â«Â¡Â£
Â¤Â³Â¤Ã¬Â¤ÃÂ¡Â¢**–P** Â¥ÂªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤ÃÂ¤Ã¨Â¤ÃªÂ¹ÃÂ¤Ã¯Â¤Ã¬Â¤Ã«Â¡Â£
ÃÃ£Â¤Â¨Â¤ÃÂ¡Â¢server.key Â¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤Â¬Â¼Â¡Â¤ÃÃÃ

```
privatekey "1e34d6769502bae1087c18d2e8c8776e4a17ddaf"
```

Â¤ÃÂ¤Â¢Â¤Ã«Â¤ÃÂ¤ÃÂ¡Â¢

Â¼Â¡Â¤ÃÂ¥Â³Â¥ÃÂ¥Ã³Â¥Ã

```
$ zebedee -P -f server.key > server.id
```

Â¤Ã²Â¼Â¹ÃÂ¤Â¹Â¤Ã«Â¤ÃÂ¡Â¢

Â¤Â³Â¤ÃÂ¤Ã¨Â¤Â¦Â¤ÃÂ½ÃÃ

```
135f04050961d37553731250d5c6f7495f088b32 myhostname
```

Â¤Â¬ÃÃÂ¤Ã©Â¤Ã¬Â¤Ã«Â¡Â£

Â¤Â³Â¤ÃÂ°ÃÂ½Ã©Â¤Ã16Â¿ÃÂ¿Ã´Â¤Â¬ "fingerprint (Â»ÃÃÂ¦)" Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£
Â¹ÃÃÂ¦Â¤ÃÃÂ¾Â¤ÃÃÂ¸Â»Â°ÃÂ³Â¤ÃÂ¡Â¢Â¤Â³Â¤ÃÂ¥Â¢Â¥Â¤Â¥ÃÂ¥Ã³Â¥ÃÂ¥Â£Â¥ÃÂ¥Â£Â¤ÃÂ½ÃªÃÂ-Â¼ÃÂ¤Ã²ÃÂ½Â¤Â¹Â¥Â³Â¥Ã¡Â¥Ã³Â¥ÃÂ¤ÃÂ¤Â¢Â¤Ã«Â¡Â£
Â¥ÃÂ¥ÃÂ¥Â©Â¥Ã«Â¥ÃÂ¤ÃÂ¤ÃÂ¡Â¢Â¤Â³Â¤Ã¬Â¤ÃÂ¥Â¢Â¥Â¤Â¥ÃÂ¥Ã³Â¥ÃÂ¥Â£Â¥ÃÂ¥Â£Â¤Â¬ÃÂ¸ÃÂ®Â¤ÂµÂ¤Ã¬Â¤Â¿Â¥ÃÂ¥Â·Â¥Ã³Â¤ÃÂ¥ÃÂ¥Â¹Â¥ÃÃ¾Â¤ÃÂ¤ÃÂ¤Â¢Â¤Ã«Â¡Â£

ÃÃÃªÂ¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤ÃÂ¤ÃªÂ¤Â¤Â¤Ã **checkidfile** Â¥Â-Â¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤Â¬ÃÃÃªÂ¤ÂµÂ¤Ã¬Â¤Â¿Â¾Ã¬Â¹Ã§Â¡Â¢Â½ÃÃÃÂ¤Ã "fingerprint (Â»ÃÃÂ¦)" Â¹ÃÂ¤Ã²ÂµÂ-Â½ÃÂ¤Â·Â¤Â¿Â¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤ÃÂ¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Ã¾Â¤ÃÃÂ¤Â¢Â¤Ã«Â¡Â£
Â¤Ã¢Â¤Â·Â¡Â¢ÃÃÃÂ³ ÃÃ¨Â¤ÃÂ¥Â¢Â¥Â¤Â¥ÃÂ¥Ã³Â¥ÃÂ¥Â£Â¥ÃÂ¥Â£Â¤Â¬Â¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«ÃÂ¦Â¤ÃÂ¤Â¤Â¤Â«Â¤ÃÂ¤Ã«ÃÃÂ¤ÃÂ¤Ã¢Â°Ã¬ÃÃÂ¤Â·Â¤ÃÂ¤Â¤Â¤Â¾Ã¬Â¹Ã§Â¡Â¢ÃÃÃÂ³Â¤ÃÃÃÃÃÂ¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£

Â¤Â½Â¤ÃÃÂ¾Â¤ÃÂ¥Â»Â¥ÂÂ¥Ã¥Â¥ÃªÂ¥ÃÂ¥Â£Â´ÃÃÂ¢Â¤ÃÃÃÂµÂ(Notes on Other Security Issues)

Message Integrity

Â¥ÃÂ¥Ã-Â¥ÃÂ¥Â³Â¥Ã«Â¤ÃÂ¥ÂªÂ¡Â¼Â¥ÃÂ¡Â¼Â¥ÃÂ¥ÃÂ¤Ã²Â²ÃÃÂ½Â¤ÃÂ¸ÃÂ¤ÂªÂ¾Â®Â¤ÂµÂ¤Â¯Â¤Â¹Â¤Ã«Â¤Â¿Â¤Ã¡Â¤ÃÂ¡Â¢
Zebedee
Â¤ÃÃÃÃ·Â¤ÂµÂ¤Ã¬Â¤Â¿Â¥ÃÂ¡Â¼Â¥Â¿Â¤ÃÃÂµÂ¤Â·Â¤ÂµÂ¤ÃÃÃÂ¤Â¹Â¤Ã«Â³ÃÃÂ§Â¤ÃÂ²Â¿Â¤Â¢Â¹ÃÂ¤ÃÃÃÂ¤Â¤Â¤ÃÂ¤ÃÂ¤Â¡Â£
Â¤Â½Â¤ÃÂ¤Â¿Â¤Ã¡Â¡Â¢Â¥Â¢Â¥Â¿Â¥ÃÂ¥Â«Â¡Â¼Â¤ÃÃÃÃ¦Â¤ÃÂ¥ÃÂ¡Â¼Â¥Â¿Â¥ÃÂ¥Â±Â¥ÃÂ¥ÃÂ¤Ã²Â²Ã¾Â¤ÃÂ¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤Â¬Â¤ÃÂ¤Â-Â¤Ã«Â¡Â£
Â¤Â·Â¤Â«Â¤Â·Â¡Â¢Â°ÃÂ¹Ã¦Â¤ÃÂ»ÃÃÃÂ¤ÃÂ¥ÃÂ¡Â¼Â¥Â¿Â¤Ã²ÃÂ¤Â°ÃÂ¤ÃÃÃÂ´Â¹Â¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤Ã²Â¶ÃÂ¤Ã¡Â¤ÃÂ°Â¤ÃÃÂ±Â¤ÃÂ¤Â·Â¤ÃÂ¤Â¤Â¤Ã«Â¤ÃÂ¤ÃÃÂ¤ÃÃÂ¤ÃÂ¤Â¤Â¤Â«
(ÃÃ£Â¤Â¨Â¤ÃÂ¡Â¢"ls -l"Â¤Ã²"rm -f"Â¤ÃÂ½Â±Â¤Â-Â´Â¹Â¤Â¨Â¤Ã©Â¤Ã¬Â¤Ã«Â¤Â«Â¤ÃÂ¡Â©) Â¡Â£ Â¤Â·Â¤Â«Â¤Â·Â¡Â¢**Zebedee** Â¤ÃÂ¥Ã©Â¥Ã³Â¥ÃÂ¥Ã Â¤ÃÂ¥ÃÂ¡Â¼Â¥Â¿Â¤Â¬ÃÃ·Â¤Ã©Â¤Ã¬Â¤Â¿Â¤Â³Â¤ÃÂ¤ÃÃÃ¨Â¤Ã«Â¤Â±ÃÂ¶ÃÂ¤Â«Â¤Ã©
Â¥Â¢Â¥ÃÂ¥ÃªÂ¥Â±Â¡Â¼Â¥Â·Â¥Ã§Â¥Ã³Â¤Ã²Â¼Ã©Â¤Ã«Â¤Â³Â¤ÃÂ¤ÃÂ¹ÃÂ¤Ã¯Â¤ÃÂ¤Â¤Â¡Â£

Replay and Insertion Attacks

ÃÂ¿Â¤Â¯Â¤ÃÂ¥ÃÂ¥ÃÂ¥ÃÂ¥Ã¯Â¡Â¼Â¥Â¯Â¥Â·Â¥Â¹Â¥ÃÂ¥Ã Â¤ÃÂ¤ÂªÂ¤Â¤Â¤ÃÃÂ-
Â¤ÃªÃÃÂ¤Ã«Â¹Â¶Â·Ã¢Â¤ÃÂ°Ã¬Â¤ÃÂ¤Ã Â¥ÃÂ¡Â¼Â¥Â¿Â¤ÃÂ¥Â-
Â¥Ã£Â¥ÃÂ¥ÃÂ¥Ã£Â¥ÃªÂ¥Ã³Â¥Â°Â¤ÃÂ¤Â¢Â¤ÃªÂ¡Â¢ÃÃÂ¤Â¯ÃÃÂ¤Ã©Â¤Ã¬Â¤Â¿Â¸ÃºÂ²ÃÂ¤Ã²ÂµÂ¤ÃÂ¤Â¹
(ÃÃ£Â¤Â¨Â¤ÃÂ¡Â¢Â´ÃÃÂ½Â¼ÃÂ¤Ã **telnet**
Â¥Â»Â¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤ÃÂ¤ÃÂ¤Â¢Â¤Ã«Â¼Ã¯Â¤Ã“Â´Ã-
Â¸Â±Â¤Ã”ÃÃ ÂºÃ®Â¤Â¬ÃÂ¼Â¤Â¤Â¡Â¢
Â¤Â½Â¤ÃÃÃ ÂºÃ®Â¤Ã²Â¸Ã¥Â¤ÃÂ·Â«Â¤ÃªÃÃÂ¤ÂµÂ¤Ã¬Â¤Â¿Â¤Ã©Â¤ÃÂ¤Â¦Â¤ÃÂ¤Ã«Â¤Â«)Â¡Â£
Â¤Â³Â¤Ã¬Â¤Ã²Â¹ÃÂ¤Â¦Â¤ÃÂ¤ÃÂ¡Â¢Â°ÃÂ¹Ã¦Â²Â½Â¤ÂµÂ¤Ã¬Â¤Â¿Â¥ÃÂ¡Â¼Â¥Â¿Â¥Â¹Â¥ÃÂ¥ÃªÂ¡Â¼Â¥Ã Â¤Ã²Â¾ÃÃÂ¤Â¹Â¤Ã«Ã¬ÃÃÂ¤ÃÃÂµÂ¤Â¤Â¤Ã¬Â¡Â¢
Â¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÃÂ·Â¤Ã©Â¤Ã¬Â¤Â¿ÃÂ±Â¤Â¸Â¥ÃÂ¥ÃÂ¥ÃÂ¥Ã¯Â¡Â¼Â¥Â¯Â¥ÃÂ¥Â±Â¥ÃÂ¥ÃÂ¤ÃÃÂ¡Â¢ÃÂ±Â¤Â¸Â¥Ã¬Â¥Â¹Â¥ÃÂ¥Ã³Â¥Â¹Â¤Ã²Â°Ã°Â¤Â-
Â½ÃÂ¤Â¹Â¤ÃÂ¤ÃÂ¤Â¦Â¡Â£

Zebedee Â¤Â¬ “anonymous” Â¥Ã¢Â¡Â¼Â¥ÃÂ¤ÃÃÂ°ÂºÃ®Â¤Â·Â¤ÃÂ¤Â¤Â¤Ã«Â¤ÃÂ¤ÃÂ¡Â¢
Â¥Â»Â¥ÃÂ¥Â·Â¥Ã§Â¥Ã³ÃÃ¨Â¤ÃÂ°ÃÂ¤ÃÂ¤Ã«Â¸Â°Â¤Â¬ÃÂ¸ÃÂ®Â¤ÂµÂ¤Ã¬Â¤Ã«Â¤Â¿Â¤Ã¡Â¡Â¢
Â¤Â³Â¤ÃÂ¤Ã¨Â¤Â¦Â¤ÃÂ¥Â¢Â¥Â¿Â¥ÃÂ¥Â¯Â¤Â¬ÃÂ®Â¸Ã¹Â¤Â¹Â¤Ã«Â´Ã-
Â¸Â±Â¤ÃÃÂ³Â¾Ã¯Â¤ÃÂ¾Â®Â¤ÂµÂ¤Â¤Â¡Â£ Â¤Â·Â¤Â«Â¤Â·Â¡Â¢identity
checkingÂ¤ÃÂµÂ¡ÃÂ½Â¤Â¬Â»ÃÂ¤Ã¯Â¤Ã¬Â¤ÃÂ¤Â¤Â¤Ã«Â¤ÃÂ¤ÃÂ¤Ã
Â¸Â°Â¤ÃÂ¸ÃÃªÂ¤ÂµÂ¤Ã¬Â¤ÃÂ¤Â¤Â¤Ã«Â¤ÃÂ¤ÃÂ¡Â¢Â°ÃÂ¸ÂÃÂ¼ÃÂ°ÃÂ¤ÃÂ²ÃÂ½ÃÂ-
Â¤Â¬Â¤Â¢Â¤Ã«Â¡Â£
ZebedeeÂ¤ÃÂ¡Â¢Â°Ã¬Â¤ÃÂ°Ã¬Â¤ÃÂ¤ÃÃÃÂ³ÃÂ¨Â¤ÃÂ¥Ã¦Â¥ÃÂ¡Â¼Â¥Â¯Â¤ÃÂ¥Â»Â¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¥Â-
Â¡Â¼Â¤Ã²ÃÂ¸ÃÂ®Â¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤ÃÂ¡Â¢
Â¤Â³Â¤ÃÃÂ¤ÃªÂ¤ÃÃÂ½Ã¨Â¤Â·Â¤ÃÂ¤Â¤Â¤Ã«Â¡Â£
Â¤Â³Â¤ÃÃÂ½ÃÂ¡Â¤ÃÂ¤ÃÂ¡Â¢ÃÃÂ³Â¤ÃÂ¥Â»Â¥ÃÂ¥ÃÂ¥Â¢Â¥ÃÂ¥ÃÂ¤ÃÂ°ÃÂ¸Â¥Â¤ÃÂ¡Â¢Â¥ÃÂ¥Ã£Â¥Ã¬Â¥Ã³Â¥Â¸–Â¥Ã¬Â¥Â¹Â¥ÃÂ¥Ã³Â¥Â¹Â¤ÃÂ¸Ã²Â´Â¹Â¤Â¬Â¹ÃÂ¤ÃÂ¤Ã¯Â¤Ã¬Â¡Â¢
ÃÃªÂ¼ÂªÃÂ¦Â¤ÃÂ¥Â·Â¥Â¹Â¥ÃÂ¥Ã Â¤Â¬shared secret
keyÂ¤Ã²ÃÃÂ»Ã½Â¤Â·Â¤ÃÂ¤ÂªÂ¤ÂªÂ¡Â¢ Â°ÃÃÂ°Â¤ÃÂµÂ-
ÃÂ¿Â¤ÂµÂ¤Ã¬Â¤Â¿Â¥ÃÂ¡Â¼Â¥Â¿Â¤Ã²Â¥ÂªÂ¥Â¦Â¥Ã ÃÃÂ¤Â·Â¤Â·Â¤ÃÂ¤Â¤Â¤Ã«Â¤Ã¯Â¤Â±Â¤ÃÃÂ¤ÃÃÂ¤Â¤Â¤Â³Â¤ÃÂ¤Â¬Â¡Â¢
Â³ÃÃÂ§Â¤ÂµÂ¤Ã¬Â¤Ã«Â¡Â£

Â²ÃÂ¤Â¨Â¤ÃÂ¡Â¢**Zebedee** Â¤Ã Blowfish Â°ÃÂ¹Ã¦ÃÂ¡Â¤Ã² “cipher feedback”
Â¥Ã¢Â¡Â¼Â¥ÃÂ¤ÃÃÃÂ¤Â¤Â¤ÃÂ¤ÂªÂ¤ÃªÂ¡Â¢
Â¥ÃÂ¡Â¼Â¥Â¿Â¤ÃÂ¤Â¢Â¤Ã©Â¤Ã¦Â¤Ã«ÃÂ´Â¬Â¤ÃÃÂ£Â¹Ã¦Â¤ÃÂ¡Â¢
Â¤Â½Â¤Ã¬Â°ÃÂ°Â¤ÃÃÂ´Â¤ÃÂ¤ÃÂ¥ÃÂ¡Â¼Â¥Â¿Â¥ÃÂ¥Â±Â¥ÃÂ¥ÃÂ¤ÃÃÂ£Â¹Ã¦Â¤Ã¬Â®Â¸Ã¹Â¤Â·Â¤ÃÂ¤Â¤Â¤Ã«Â¤Â«Â¤ÃÂ¤Â¦Â¤Â«Â¤ÃÂ°ÃÂ¸Â¤Â¹Â¤Ã«Â¡Â£
Â¥ÃÂ¥Ã£Â¥Ã¬Â¥Ã³Â¥Â¸Â¡Â¦Â¥Ã¬Â¥Â¹Â¥ÃÂ¥Ã³Â¥Â¹Â¤ÃÂ¥ÃÂ¡Â¼Â¥Â¿Â¥Â¹Â¥ÃÂ¥ÃªÂ¡Â¼Â¥Ã Â¤Ã
“salts” Â¤Ã²Â¸Ã²Â´Â¹Â¤Â¹Â¤Ã«Â¤ÃÂ¤ÃÂ¡Â¢
Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â²Â½Â¤ÂµÂ¤Ã¬Â¤Â¿Â¥ÃÂ¥ÃÂ¥ÃÂ¥Ã³Â¥Ã«Â¤Ã “known plain–text”
Â¥Â¢Â¥Â¿Â¥ÃÂ¥Â¯(Â¼ÃÂ½Ã±Â¹Â¶Â·Ã¢)Â¤Ã²Â²ÃÂ¤Â¨Â¤Ã«Â¤ÃÂ¤Ã
Â¤Ã¨Â¤ÃªÂ°Â¤ÃÃ±Â¤ÃÂ¤ÃÂ¤Ã«Â¡Â£

Key Generation

ÃÃÂ¤Â¯Â¤ÃÂ¤Â¤Â¸Â°Â¤ÃÂ»ÃÃÂ¤ÃÂ¡Â¢Â°ÃÂ¶Â¯Â¤ÃÂ°ÃÂ¹Ã¦Â²Â½Â¥Ã¡Â¥Â«Â¥ÃÂ¥Â°Â¥Ã Â¤Ã²Â¤Ã¢Â±Ã¸Â¤Â¹Â¤Â³Â¤ÃÂ¤Â¬Â¤ÃÂ¤Â-
Â¤Ã«Â¡Â£ Â¸Â°Â¤Ã²ÃÂ¸ÃÂ®Â¤Â¹Â¤Ã«Â¤Ã©Â¤ÃÂ¡Â¢**Zebedee**
Â¤ÃÂ²ÃÂ½Â¤ÃÂ¸Â¤ÃªÂ¿ÃÂ¤Â¬Â°Â¤ÃÃ±Â¤ÃÂ¥ÃÂ¡Â¼Â¥Â¿Â¤Ã²Â¤Ã«Â¤Â-
Â½Â¸Â¤Ã¡Â¤ÃÂ¡Â¢ Â¤Â½Â¤Ã¬Â¤Ã² SHA
Â¥ÃÂ¥ÃÂ¥Â·Â¥Â¥Â¢Â¥Ã«Â¥Â´Â¥ÃªÂ¥Â°Â¥Ã Â¤ÃÂ¤Â¨Â¤Ãª “Â¥Â¹Â¥ÃÂ¥Â¢
(Â¤Â«Â¤ÃÂ°Â®Â¤Â¼Â¤Ã«)” Â¤Â¹Â¤Ã«Â¡Â£

Win-
dowsÂ¤ÃÂ¾Ã¬Â¹Ã§Â¡Â¢Â¥Â¢Â¥Â¿Â¥ÃÂ¥Ã«Â¡Â¼Â¤Â¬Â´Ã»Â¤ÃÂ¥Â·Â¥Â¹Â¥ÃÂ¥Ã Â¤ÃÂ¥Â¢Â¥Â¯Â¥Â»Â¥Â¹Â¤Â·Â¤ÃÂ¤Â¤Â¤Ã¬Â¤ÃÂ¡Â¢
Â¼Ã¨ÃÃÂ²ÃÃÂ½Â¤ÃÂ¤Â¢Â¤Ã©Â¤Ã¦Â¤Ã«Â¥ÃÂ¡Â¼Â¥Â¿Â¤ÃÃÂ½Ã¬Â¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤Â¬Â¤ÃÂ¤Â-
Â¤Ã«Â¡Â£ Â¤Â·Â¤Â«Â¤Â·Â´Ã»Â¤ÃÂ¸ÃÂµÃÂ¤Â·Â¤Â¿Â¤Ã¨Â¤Ã¦Â¤ÃÂ¡Â¢
Â¤ÃÂ¤Ã³Â¤ÃÂ¤ÃÃÃÃÃÂ¤ÃÂ¤ÂªÂ¤Â¤ÃÂ¤Â³Â¤Ã¬Â¤ÃÂµÂ¶ÃÃÂ¤ÃÂ¤Â-
Â¤Ã«Â¤ÃÂ¤ÃÂ¤Â¦Â¡Â£ Â¶Â½ÃÂ£Â¤Â¬Â¤Â¢Â¤Ã«Â¤ÃÂ¤Ã©Â¤ÃÂ¡Â¢Â¥ÃÂ¥Â-
Â¥Â°Â¥Ã©Â¥Ã Ã¦Â¤Â¥Â³Â¥Ã¡Â¥Ã³Â¥ÃÂ¤ÃÂ¾ÃÂ°ÃÂ¤Â¬ÃÂ¢ÃÃÂ¤ÂµÂ¤Ã¬Â¤ÃÂ¤Â¤Â¤Ã«Â¤ÃÂ¤ÃÂ¡Â¢
Â»Â²Â¾ÃÂ¤ÂµÂ¤Ã¬Â¤Â¿Â¤Â¡Â£

Â¤Â¢Â¤Â·Â¡Â¢Â¸Â°Â¤ÃÃÂ¸ÃÂ®Â¥Ã¡Â¥Â«Â¥ÃÂ¥Â°Â¥Ã Â¤ÃÃÃÃ¾Â¤Â¬Â¤Â¢Â¤Ã«Â¤ÃÂ¤Ã©Â¡Â¢
ÃÃÃªÂ¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«ÃÃ¦Â¤Ã**keygencommand**

Â¥ÂªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤Ã²ÃÃÂ¤Â¤Â¤ÃÂ¡Â¢ Â³Â°ÃÃ´Â¤ÃÂ¸Â°ÃÂ¸ÃÂ®Â¥ÃÂ¥ÃÂ¥Â°Â¥Ã©Â¥Ã Â¤Ã²Â¸ÃÂ¤ÃÂ¤ÃÃÃÂ¤Â¤Â¡Â£ ÃÃÂ¤ÃÂ¹Ã¾Â¤ÃÂ¤Ã¬Â¤ÃÂ¤Â¤Â¤Ã«ÃÂÃÂ½Â¤Ã²Â²Ã¾ÃÂ±Â¤Â¹Â¤Ã«ÃÃ³Â°ÃÂ¤ÃÃÃ§Â´Â¿Â·ÃÂ¤Ã!

Â¥ÃÂ¥Ã©Â¥ÃÂ¥Ã«Â¥Â·Â¥ÃÂ¥Â¡Â¼Â¥ÃÂ¥Â£Â¥Ã³Â¥Â°(TROUBLESHOOTING)

Zebedee

Â¤ÃÂ¡ÃÃÂ¢Â¤Â«Â¤Ã©Â½ÃÂ¤Â·Â¤ÃÂ¤Â¹Â¤Â°Â¤Â½Â¤ÃÂ¤ÃÂ¤ÃÂ¡ÃÃÂ°Â¤Â¯Â¤ÃÂ¤ÂÂ¤ÃÂ¤Â¬Â¡Â¢Â¤Â¢Â¤ÃÂ¤Â¿Â¤ÃÂ¥ÃÂ¥Ã©Â¥ÃÂ¥Ã« Â¤ÃÂ¤Â¢Â¤Â¦Â¤Â«Â¤Ã¢Â¤Â·Â¤Ã¬Â¤ÃÂ¤Â¤Â¡Â£Â¤ÃÂ¤ÃÂ¤Ã³Â¤ÃÂ¤ÃÂ¥ÃÂ¥Ã©Â¥ÃÂ¥Ã«Â¤ÃÃÃÃÂ³Â¤ÃÂ³ÃÃÂ©Â»Ã¾Â¤ÃÂµÂ¯Â¤Â³Â¤Ã« (ÃÃÃÂ³Â¤ÂµÂ¤Â¨Â¤Â¦Â¤ÃÂ¤Â¯Â¤Â¤Â¤Â±Â¤ÃÂ¡Â¢Â¥ÃÂ¡Â¼Â¥Â¿ÃÂ¾ÃÃ·Â¤ÃÂ¥Â¹Â¥Ã Â¡Â¼Â¥ÂºÂ¤ÃÂ¤Â¤Â¤Â¯Â¤Â³Â¤ÃÂ¤Â¬ÃÂ¿Â¤Â¤)Â¡Â£ (ÃÃÃÂ³Â¤Ã)Â¥Â»Â¥ÃÂ¥ÃÂ¥Â¢Â¥ÃÂ¥ÃÂ¤ÃÂ¼ÃªÂ½Ã§Â¤ÃÂ²Â¿Â¤Â¬ÂµÂ¯Â¤Â³Â¤ÃÂ¤ÃÂ¤Â¤Â¤Ã«Â¤Â«Â´ÃÃÂ±Â¤ÃÂ¸Â«Â¤Ã«Â¤ÃÂ¤Ã**–v**Â¥ÂªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤Ã²Â»ÃÂ¤Â¨Â¤ÃÂ¤Ã¨Â¤Â¤Â¡Â£**–d** **–D** Â¤Ã¢Â¤Â¤Â¤ÃÂ¤Â·Â¤Ã§Â¤ÃÂ»ÃÂ¤ÃÂ¤ÃÂ¡Â¢**Zebedee**Â¤Ã²ÃÂ¼ÃÃ¶Â¤Â«Â¤Ã©Â½ÂªÃÂ»Â¤ÃÂ¤ÃÂ¤Ã«Â¤Ã¨Â¤Â¦Â¤ÃÂ¤Â·Â¤ÃÂ¡Â¢Â°Ã¬ÃÃÂ¤ÃÂ°Ã¬Â¤ÃÂ¤ÃÃÃÃÂ³Â¤Â·Â¤Â«Â½Ã¨ÃÃ½Â¤Â·Â¤ÃÂ¤Â¤Â¤Ã¨Â¤Â¦Â¤ÃÂ¤Â·Â¤Â¿Â¤ÃÂ¤Â¦Â¤Â¬Â¤Â¤ Â¤Â¤Â¤Â«Â¤Ã¢Â¤Â·Â¤Ã¬Â¤ÃÂ¤Â¤Â¡Â£Â¤ÃÂ¤ÃÂ¤Â«Â¤Ã©Â¡Â¢Â¤Â³Â¤Ã³Â¤ÃÃ´Â¶Â¤Â¸Â¤ÃÂ¤ÃÂ¤Ã«Â¤ÃÂ¤ÃÂ¤Â¦Â¡Â£

```
zebedee -dD -v 3 -s
```

Â¥ÃÂ¥Â®Â¥Ã³Â¥Â°Â¥Ã¬Â¥ÃÂ¥Ã«Â¤Ã²3Â¤ÃÃÃÃªÂ¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤ÃÂ¡Â¢ ÃÃÃÂ³Â¤ÃÂ¥Â»Â¥ÃÂ¥ÃÂ¥Â¢Â¥ÃÂ¥ÃÂ¤ÃÂ¼Ã§Â¤ÃÂ¤ÃÂ¤ÂªÂ¤ÃÂ¤ÃªÂ¤Ã²Â¸Â«Â¤Ã«Â¤Â³Â¤ÃÂ¤Â¬Â¤ÃÂ¤Â¤Ã«Â¡Â£ ÃÃ¤ÃÃªÂ¤Â¬Â¤Â½Â¤ÃÂ¸Ã¥Â¤ÃÂµÂ¯Â¤Â¤ÃÂ¤Ã«Â¤ÃÂ³ÃÂ¿Â®Â¤Â¬Â»Ã½Â¤ÃÂ¤Ã«Â¤ÃÂ¤Ã©Â¤ÃÂ¡Â¢ Â¥Ã¬Â¥ÃÂ¥Ã«Â¤Ã²4Â¤Â«5Â¤ÃÂ¤Â¹Â¤Ã¬Â¤ÃÂ¡Â¢ (ÃÃÃÂ³Â»Ã¾Â¤ÃÂ¤Â±Â¤ÃÂ¤ÃÂ¤Â¯)Â¼ÃÂºÃÂ¤ÃÃÃÂ¿Â®Â¤ÃÂ²Â¿Â¤Â¬Â¤ÃÂ¤ÃªÂ¤ÃÂ¤ÃªÂ¤ÂµÂ¤Ã¬Â¤ÃÂ¤Â¤Â¤Ã«Â¤Â«Â¤Ã¢Â¸Â«Â¤Ã«Â¤Â³Â¤ÃÂ¤Â¬Â¤ÃÂ¤ÃÂ¤Ã«Â¡Â£

EXAMPLES

Zebedee

Â¤ÃÂ¥ÃÂ¥ÃÂ¥Â±Â¡Â¼Â¥Â¸Â¤ÃÂ¤ÃÂ¡Â¢Â¤Â¿Â¤Â¯Â¤ÂµÂ¤Â³Â¤ÃÂ¥ÂµÂ¥Ã³Â¥ÃÂ¥Ã«Â¤ÃÃÃÃÃªÂ¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤Â¬Â´ÃÂ¤ÃÂ¤Ã¬Â¤ÃÂ¤Â¤Â¤Ã«Â¡Â£ Â¤Â³Â¤Â³Â¤ÃÂ¤ÃÂ¡Â¢Â¤Â½Â¤Ã¬Â¤Ã©Â¤ÃÂ»ÃÃÃÂ¡Â¤Ã **Zebedee** Â¤Ã² ÃÃÃªÂ¤ÃÂ¤Â¤Â¤Â¯Â¤ÃÂ¤Â«Â¤ÃÂ¥ÃÂ¥ÃÂ¥ÃÂ¥Â³Â¥Ã«Â¤ÃÂ»ÃÃÃÂ¤Â¹Â¤Ã«Â¶Ã±ÃÃÃÂªÂ¤ÃÃÃ½ÃÂ¡Â¤Ã²Â½ÃÂ¤ÃÂ¤Ã«Â¡Â£

Â¥ÂµÂ¡Â¼Â¥ÃÃÃÃªÂ¤ÃÃÃ£(Example Server Configuration)

ZebedeeÂ¤ÃÂ¥ÃÂ¥ÃÂ¥Â±Â¡Â¼Â¥Â¸Â¤ÃÂ´ÃÂ¤ÃÂ¤Ã¬Â¤Ã« *server.zbd* Â¤ÃÂ¤Â¤Â¤Â¦ÃÃÃªÂ¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤Â¬Â¤Â¢Â¤Ã«Â¡Â£ Â¤Â³Â¤Ã¬Â¤ÃÂ¤ÃÂ¤Ã¨Â¤Â¯Â»ÃÂ¤Ã¯Â¤Ã¬Â¤Ã«Â¤ÃÂ¤ÃÂ¤Ã³Â¤ÃÂ¤ÃÂ¥ÂªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤ÃÃÃÃªÃÃ£Â¤Â¬Â¤Â¢Â¤Ã«Â¡Â£

```
#
# Sample Zebedee server configuration file
#
# This shows the use of many, but not all, of the configuration file
# options available for use by a server.
#

verbosity 2             # Slightly more than basic messages

server true             # Yes, it’s a server!
detached true           # Run detached from terminal
udpmode false           # Are we operating in UDP mode?
```

```
# Uncomment the following line to log messages to a file
#
#  logfile './server.log'
#
# Or to log to the system logging facility uncomment this:
#
#  logfile SYSLOG

# Uncomment the following line if you want to use a fixed private
# key stored in a static file. The file should contain a line of
# the form "privatekey hexadecimal-key-string"
#
#  include './server.key'

keygenlevel 2          # Generate maximum strength private keys

# To validate the identity of clients uncomment the following
# line:
#
#  checkidfile './clients.id'

# Set up allowed redirection ports.
# These should be pretty safe -- but it's not a good idea
# to open up all ports.

redirect "telnet ftp"          # Basic services
redirect 5900-5999             # VNC traffic
redirect 6000-6010             # X Window System
redirect "daytime chargen"     # Ports useful for testing

targethost localhost           # Redirection is to the local machine

compression zlib:9             # Allow maximum zlib compression
keylength 256                  # Allow keys up to 256 bits
keylifetime 36000              # Shared keys last 10 hours
maxbufsize 16383               # Allow maximum possible buffer size
```

ÃÂ§Â¾ÃÂ¤ÃÂµÂ¡ÃÂ½Â¤Ã²Â¥ÃÂ¥Â¹Â¥ÃÂ¤Â¹Â¤Ã«Â¤Â¿Â¤Ã¡Â¤ÃÂ¤ÃÂ¡Â¢ **checkidfile**Â¤ÃÂ¹ÃÂ¤Ã²Â¥Â³Â¥Ã¡Â¥Ã³Â¥ÃÂ¥Â¢Â¥Â¦Â¥ÃÂ¤Â·Â¡Â¢Â¥ÃÂ¥ÃÂ¥Â±Â¡Â¼Â¥Â¸Â¤ÃÂ´ÃÂ¤ÃÂ¤Ã¬Â¤Ã«*client1.key*Â¤Â«*client2.key*Â¤ÃÂ¤Â¤Â¦Â¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤Ã²Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÃÂ¦Â¤ÃÂ»ÃÃÂ¤Â¹Â¤Ã¬Â¤ÃÂ¤Ã¨Â¤Â¤Â¡Â£

VNCÂ¤ÃÂ»ÃÃÃÃ£(Use with VNC)

ZebedeeÂ¤Ã²Â°Ã®Â¤ÃÂ¤Â¿ÃÃ½ÃÂ³Â¤ÃÂ°Ã¬Â¤ÃÂ¤ÃÂ¤Â·Â¤ÃÂ¡Â¢Â¥ÃÂ¥Â¤Â¥Â¢Â¥Ã«Â¥Â¢Â¥ÃÂ¥ÃÂ¤ÃVNCÂ¤Ã²Â»ÃÂ¤Â¦Â¤ÃÂ¤Â¤Â¦Â¤Â³Â¤ÃÂ¤Â¬Â¤Â¢Â¤Ã«Â¡Â£ VNCÂ¤ÃÂ¡ÃÂ¥ÃªÂ¥Ã¢Â¡Â¼Â¥ÃÂ¥ÃÂ¥Ã¬Â¡Â¼Â¥Ã Â¥ÃÂ¥ÃÂ¥ÃÂ¥Â¡Â¥Â³Â¥Ã³Â¥Â»Â¥ÃÂ¥ÃÂ¡ÃÂ¤Ã²Â»ÃÂ¤Â¤Â¡Â¢ Â¥ÃªÂ¥Ã¢Â¡Â¼Â¥ÃÂ¥ÃÂ¥Â£Â¥Â¹Â¥ÃÂ¥Ã¬Â¥Â¤Â¤Ã²ÃÃ³Â¶Â¡Â¤Â¹Â¤Ã«Â¥ÃÂ¥ÃªÂ¡Â¼Â¤ÃÂ¥Â·Â¥Â¹Â¥ÃÂ¥Ã Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£ WindowsÂ¤ÃÂ¥ÃÂ¥Â¹Â¥Â¯Â¥ÃÂ¥ÃÂ¥ÃÂ¤Ã²ÃÂ¥Â¤Ã¬Â¤Â¿Â½ÃªÂ¤ÃÃÂ½Â¼Â¨Â¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤Ã¢Â¤ÃÂ¤ÂÂ¤Ã«Â¤Â·Â¡Â¢ "Xvnc"Â¥ÂµÂ¡Â¼Â¥ÃÂ¤Ã²Â»ÃÂ¤ÃÂ¤Ã X Â¤ÃÂ¥ÃÂ¥Â¹Â¥Â¯Â¥ÃÂ¥ÃÂ¥ÃÂ¤Ã² VNCÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¥ÃÂ¥Â·Â¥Ã³Â¤Â«Â¤Ã©ÃÃ Â°Ã®Â¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤Ã¢Â¤ÃÂ¤ÂÂ¤Ã«Â¤Â·Â¡Â¢ JavaÂ¤Ã²Â»ÃÂ¤Â¨Â¤Ã«Â¥ÃÂ¥Ã©Â¥Â¦Â¥Â¶Â¡Â¼Â¤ÃÃÃ¦Â¤Â«Â¤Ã©ÃÃ Â°Ã®Â¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤Ã¢Â¤ÃÂ¤ÂÂ¤Ã«Â¡Â£ Â¾ÃÂ¤Â·Â¤Â¯Â¤Ãhttp://www.uk.research.att.com/vnc/Â¤Ã²Â»Â²Â¾ÃÂ¤ÃÂ¤Â³Â¤ÃÂ¡Â£

ÃÃ³Â¶Â¡Â¤ÂµÂ¤Ã¬Â¤Ã«Â¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÃÃÃÃªÃÃ£Â¤ÃÂ¤Â¢Â¤Ã«*server.zbd* Â¤Ã 5900–5999 Â¥ÃÂ¡Â¼Â¥ÃÂ¤Ã² Â¥ÃªÂ¥ÃÂ¥Â¤Â¥Ã¬Â¥Â¯Â¥ÃÂ¤Â·Â¤ÃVNCÂ¥Â»Â¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤Ã²Â¥ÃÂ¥Ã³Â¥ÃÂ¥ÃªÂ¥Ã³Â¥Â°Â¤Â¹Â¤Ã«Â¡Â£ Â¤Â³Â¤ÃÂ¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤ÃUNIXÂ¤ÃÂ¤Ã¢WindowsÂ¤ÃÂ¤Ã¢Â»ÃÃÃÂ¤ÃÂ¤ÂÂ¤Ã«Â¤Â¬Â¡Â¢ WindowsÂ¤ÃÂ»ÃÂ¤Â¦Â¤Â¿Â¤Ã¡Â¤ÃÂ¤ÃÂ¡Â¢Â¥Ã¬Â¥Â¸Â¥Â¹Â¥ÃÂ¥ÃªÂ¤Ã "AllowLoop-

back’’Â¥ÃÂ¥Ã©Â¥Â°Â¤Ã² Â¥Â»Â¥ÃÂ¥ÃÂ¤Â¹Â¤Ã«ÃÂ¬ÃÃÂ¤Â¬Â¤Â¢Â¤Ã«Â¤ÃÂ¤ÃÃÃ-
Â°ÃÂ¡Â£
Â°ÃÂ²Â¼Â¤ÃÃÃÃÃÂ¤Ã²(ÃÃ¨ÃÂ¬Â¤ÃÂ¥Â¹Â¥ÃÂ¡Â¼Â¥Â¹Â¤Ã²Â¼Ã¨Â¤ÃªÂ½Ã¼Â¤Â¤Â¤ÃÂ¤Â«Â¤Ã©)Â¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤ÃÃÃÃÂ¸Â¤Â·Â¤Ã
regedit
Â¤ÃÃÃÂ¤ÃÂ¤Â»Â¤Ã¬Â¤ÃÂ¡Â¢Â¤Â½Â¤ÃÂ¥ÃÂ¥ÃªÂ¥ÃÂ¥Â¯Â¤Ã²Â¼ÃÂ¹ÃÂ¤Â¹Â¤Ã«Â¡Â£

```
REGEDIT4

[HKEY_LOCAL_MACHINE\SOFTWARE\ORL\WinVNC3]
"AllowLoopback"=dword:00000001

[HKEY_LOCAL_MACHINE\SOFTWARE\ORL\WinVNC3\Default]
"AllowLoopback"=dword:00000001
```

Â¤Â³Â¤ÃÃÃ¢ÃÃÂ¤Ã **Zebedee** Â¥ÃÂ¥ÃÂ¥Â±Â¡Â¼Â¥Â¸Â¤ÃÃÃ¦Â¤Ã *vncloopback.reg*
Â¤ÃÂ¤Ã¢Â´ÃÂ¤ÃÂ¤Ã¬Â¤ÃÂ¤Â¤Â¤Ã«Â¡Â£
Â¤Â³Â¤ÃÂ¥Ã¬Â¥Â¸Â¥Â¹Â¥ÃÂ¥ÃªÂ¤Ã²ÃÃÃªÂ¤Â¹Â¤Ã¬Â¤ÃÂ¡Â¢Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã©Â¥Â¤Â¥Ã³Â¤ÃÃÂ¿Â¤Â¨Â¤Ã©Â¤Ã¬Â¤Â¿Â¥ÃÂ¥Â¹Â¥ÃÂ¤ÃÂ¥ÃÂ¥Ã³Â¥ÃÂ¥ÃªÂ¥Ã³Â¥Â°Â¤ÂµÂ¤Ã¬Â¤Â¿VNC
Â¥ÃÂ¥Ã¥Â¡Â¼Â¥Ã¯Â¤Ã² *vncviewer.zbd* Â¤ÃÂµÂ¯ÃÂ°Â¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤Â¬Â¤ÃÂ¤Â-
Â¤Ã«Â¡Â£ Â°ÃÂ²Â¼Â¤Ã *vncviewer.zbd* Â¤ÃÃÃ¢ÃÃÂ¤Ã²Â¼Â¨Â¤Â¹Â¡Â£

```
#
# Zebedee configuration file to start up a tunnelled VNC session
#
# Usage: zebedee -f vncviewer.zbd remote-host:vnc-port
#

verbosity 1         # Basic messages only

server false        # It’s a client
detached true       # Detach from terminal

message "Starting VNC viewer"

# On Windows systems you might use the following:

command ’"c:\Program Files\ORL\VNC\vncviewer.exe" localhost:%d’

# On UNIX systems you might use the following:

# command ’vncviewer localhost:%d’

compression 6       # Request normal Zlib compression
```

Â°ÃÂ²Â¼Â¤ÃÂ¤Ã¨Â¤Â¦Â¤ÃÂ¤Â³Â¤ÃÂ¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤Ã²Â»ÃÃÃÂ¤Â¹Â¤Ã«Â¤ÃÃÂ¡Â¢

```
zebedee -f vncviewer.zbd somehost:5901
```

*somehost*Â¤Ã5901ÃÃÂ¥ÃÂ¡Â¼Â¥ÃÂ¤ÃVNCÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â¤Â·Â¤Â¿VNCÂ¥ÃÂ¥Ã¥Â¡Â¼Â¥Ã¯Â¤Ã²ÂµÂ¯ÃÂ°Â¤Â¹Â¤Ã«Â¡Â£
(VNCÃÃ·Â¤ÃÂ¤Â¤Â¤Â¤Â«Â¤Â¿Â¤ÃÂ¡Â¢"**somehost:1**"Â¤ÃÂ¤Â·Â¤ÃÂ»Â²Â¾ÃÂ¤ÂµÂ¤Ã¬Â¤Ã«Â¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ¤Â¢Â¤Ã«)

VNCÂ¤ÃJavaÂ¤ÃÂ¥ÃÂ¥Ã¥Â¡Â¼Â¥Ã¯Â¤Ã¢Â¥ÂµÂ¥ÃÂ¡Â¼Â¥ÃÂ¤Â·Â¤ÃÂ¤Â¤Â¤Ã«Â¡Â£
Â¤Ã¢Â¤Â·Â¥ÂµÂ¡Â¼Â¥ÃÂ¤Â¬Â¥ÃÂ¡Â¼Â¥Ã59xxÂ¤ÃÃÂ°Â°Ã®Â¤Â·Â¤ÃÂ¤Â¤Â¤Â¿Â¤Ã©Â¡Â¢
Â¥ÃÂ¥Ã¥Â¡Â¼Â¥Ã¯Â¤Ã²58xxÂ¤Â«Â¤Ã©Â¥ÃÂ¥Â¦Â¥Ã³Â¥Ã-
Â¡Â¼Â¥ÃÂ¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤Â¬Â¤ÃÂ¤ÃÂ¤Ã«Â¡Â£ Â¤Â·Â¤Â«Â¤Â·Â¤ÃÂ¤Â¬Â¤Ã©Â¡Â¢
Â¤ÃÂ¤Â¦Â¤Â¢JavaÂ¥ÃÂ¥Ã¥Â¡Â¼Â¥Ã¯Â¤ÃÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ¤ÃÂ¥Â¡Â¥Â¤Â¥Ã³Â¤ÃVNCÂ¥ÃÂ¡Â¼Â¥ÃÃÂ¹Ã¦Â¤ÃÃÃÂ¿Â®Â¤Â·Â¤ÃÂ¤Â¤Â¤Ã«Â¤Ã¨Â¤Â¦Â¤ÃÂ¡Â£
Â¤Â½Â¤ÃÂ¤Â¿Â¤Ã¡Â¡Â¢JavaÂ¥ÃÂ¥Ã¥Â¡Â¼Â¥Ã¯Â¤ÃÂ¤Â³Â¤Ã¬Â¤Ã²Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â¤Â¹Â¤Ã«Â¤ÃÂ¤ÃÂ¡Â¢
Â¥Ã-
Â¡Â¼Â¥Â«Â¥Ã«Â¤ÃÂ¥ÃªÂ¥Ã¢Â¡Â¼Â¥ÃÂ¤ÃÃÂ±Â¤Â¸Â¥ÃÂ¡Â¼Â¥ÃÃÂ¹Ã¦Â¤Ã²Â»ÃÂ¤Â¦ÃÂ¬ÃÃÂ¤Â¬Â¤Â¢Â¤Ã«Â¡Â£
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Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â¤Â¹Â¤Ã«Â¤ÃÂ¤ÃÂ¡Â¢Â¼Â¡Â¤ÃÂ¤Ã¨Â¤Â¦Â¤ÃÂ¤Â¹Â¤Ã«Â¡Â£

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zebedee 5801,5901:remotehost:5801,5901
```

Â¤Ã¢Â¤Â·Â¥Ã-

Â¡Â¼Â¥Â«Â¥Ã«Â¥ÃÂ¥Â·Â¥Ã³Â¤ÃÂ¤Ã¢5901ÃÃÂ¥ÃÂ¡Â¼Â¥ÃÂ¤Ã²Â»ÃÂ¤ÃÂ¤Â¿VNCÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤Â¬ÃÂ°Â¤Â¤Â¤ÃÂ¤Â¤Â¤Ã«Â¤ÃÂ¡Â¢
Â¤Â³Â¤Ã¬Â¤ÃÂ¤Â¦Â¤ÃÂ¤Â¯Â¤Â¤Â¤Â«Â¤ÃÂ¤Â¤Â¡Â£
Â¤Â·Â¤Â«Â¤Â·Â¡Â¢Â¥ÃÂ¡Â¼Â¥ÃÂ¤Â¬Â¾ÃÃÂ¤Â·Â¤ÃÂ¤Â¤Â¤Ã¨Â¤Â¦Â¤ÃÃÂ¾Â¼ÃÂ¤Ã²ÃÂ´ÃÂ°Â¤Â¹Â¤Ã«Â¤Â³Â¤ÃÃÂ¤Â²ÃÃÂ½Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£

Â¤Ã¢Â¤Â¦Â¤ÃÂ¤ÃÂ¤ÃÂ¤ÃÂ¤Â±Â¸ÃÂ¤ÃÂ¤ÃÂ¤ÂªÂ¤Â¯Â¤Â³Â¤ÃÂ¤Â¬Â¤Â¢Â¤Ã«Â¡Â£
VNCÂ¤Ã²Â¥ÃÂ¡Â¼Â¥Â¿Â°ÂµÂ½ÃÂ¤ÃÂ¤ÃÂ¤Ã¢Â¤ÃÂ»ÃÂ¤ÂªÂ¤Â¦Â¤ÃÂ¤Â·Â¤ÃÂ¤Â¤Â¤Ã«Â¤ÃÂ¤Ã©Â¡Â¢
VNCÂ¤Ãprotocol encodingÂ¤ÃÂ´ÃÂ¤Â·Â¤ÃÂ¼ÃÂ¸Â³Â¤Â·Â¤Â¿Â¤ÃÂ¤Â¦Â¤Â¬Â¤Ã¨Â¤Â¤Â¡Â£
Â»ÃÂ¤ÃÂ¡Â¢“raw” encoding Â¤Â¬Â°ÂµÂ½ÃÂ¤ÃÂ¸ÃºÂ²ÃÂ¤Â¬Â¹Ã¢Â¤Â¯Â¡Â¢
ÃÃÂ¤Â¤Â²Ã³ÃÂ¾Â¾Â¥Â¤ÃÂ¤ÃÂ¤Ã¨Â¤ÃªÂ¤Ã¨Â¤Â¤Â¥ÃÂ¥ÃÂ¥Â©Â¡Â¼Â¥ÃÂ¥Ã³Â¥Â¹Â¤Ã²Â¼Â¨Â¤Â¹Â¤Â³Â¤ÃÂ¤Ã²ÃÂ¯Â¸Â«Â¤Â·Â¤Â¿Â¡Â£
Â¤Â·Â¤Â«Â¤Â·Â¡Â¢Â¤Â¢Â¤ÃÂ¤Â¿Â¤ÃÂ¾Ã¬Â¹Ã§Â¤ÃÂ°Ã£Â¤Â¦Â·Ã«Â²ÃÂ¤ÃÂ¤ÃÂ¤Ã«Â¤Â«Â¤Ã¢Â¤Â·Â¤Ã¬Â¤ÃÂ¤Â¤Â¡Â£

X Window SystemÂ¤ÃÂ»ÃÃÃÃ£(Use with the X Window System)

X Window SystemÂ¤Ã6000ÃÃÂ°ÃÂ¾Ã¥Â¤ÃÂ¥ÃÂ¡Â¼Â¥ÃÂ¤Ã²Â»ÃÂ¤Â¦Â¡Â£

xlocal Â¤ÃÂ¤Â¤Â¤Â¦Â¥ÃÂ¡Â¼Â¥Â«Â¥Ã«Â¥ÃÂ¥Â·Â¥Ã³Â¤ÃÂ¥ÃÂ¡Â¼Â¥Ã6000Â¤ÃX
Â¥ÂµÂ¡Â¼Â¥ÃÂ¤Â¬ÃÂ°ÂºÃ®Â¤Â·Â¤ÃÂ¤Â¤Â¤Ã«Â¤ÃÂ¤Â¹Â¤Ã«Â¡Â£
Â¤Â³Â¤Ã¬Â¤ÃÃÃÂ¾Ã¯Â¡Â¢**xlocal:0**
Â¤ÃÂ¤Â¤Â¤Â¦Â¥ÃÂ¥Â£Â¥Â¹Â¥ÃÂ¥Ã¬Â¥Â¤Â¤ÃÂ»ÃÂ¤Ã¯Â¤Ã¬Â¤ÃÂ¤Â¤Â¤Ã«Â¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÂ¤Â¢Â¤Ã«Â¡Â£
Â¤Â½Â¤Â·Â¤ÃÂ¡Â¢**xremote**Â¤ÃÂ¤Â¤Â¤Â¦(Â¥ÃªÂ¥Ã¢Â¡Â¼Â¥Ã)Â¥ÃÂ¥Â·Â¥Ã³Â¤Â«Â¤Ã©Â¡Â¢
Â¥ÃÂ¡Â¼Â¥Â«Â¥Ã«Â¤ÃÂ¥ÃÂ¥Â£Â¥Â¹Â¥ÃÂ¥Ã¬Â¥Â¤Â¤ÃÂ°ÃÃÂ´Â¤Ã **xterm**
Â¤ÃÂ¥Â»Â¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤Ã²ÃÂ·Â¤ÃªÃÃÂ¤Â·Â¤Â¿Â¤Â¤Â¤Ã¢Â¤ÃÂ¤ÃÂ¤Â¹Â¤Ã«Â¡Â£
Â¤Â³Â¤Ã¬Â¤Ã²Â¹ÃÂ¤ÃÂ¤Â¦Â¤ÃÂ¤ÃÂ¡Â¢Â°ÃÂ²Â¼Â¤ÃÂ¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¤Ã² **xlocal**
Â¤ÃÂ¼ÃÂ¹ÃÂ¤Â¹Â¤Ã«Â¡Â£

```
zebedee -r 6000 -s
```

Â¤Â½Â¤Â·Â¤ÃÂ¡Â¢**xremote** Â¤ÃÂ¤Ã

```
zebedee 6001:xlocal:6000
```

Â¤Ã²Â¼ÃÂ¹ÃÂ¤Â¹Â¤Ã«Â¡Â£

Â¤Â³Â¤ÃÂ¤Â³Â¤ÃÂ¤ÃÂ¡Â¢**xremote**Â¾Ã¥Â¤ÃÂ¡Â¢Â´ÃÂ¶Â-
ÃÂ¿Ã´Â¤Ã**DISPLAY**Â¤Â¬`localhost:1`Â¤ÃÃÃÂªÂ¤ÂµÂ¤Ã¬Â¤ÃÂ¤Â¤Â¤Ã¬Â¤ÃÂ¡Â¢
XÂ¤ÃÂ¥ÃÂ¥Ã©Â¥ÃÂ¥Â£Â¥ÃÂ¥Â¯Â¤Ã**xlocal**Â¤ÃÃÂ¾ÃÂ¥Â¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤Ã²Â°ÃÃ£Â¤Â¹Â¤Ã«Â¡Â£
Â¤Â½Â¤ÃÂ¤Â¿Â¤Ã¡Â¡Â¢ÃÃ£Â¤Â¨Â¤Ã**xterm**Â¤Ã²Â°ÃÂ´Â¤Ã**xremote**Â¤Â«Â¤Ã©ÃÂ·Â¤Ã-
Â¤Â¦Â¤ÃÂ¤Â¹Â¤Ã«Â¤ÃÂ¤Ã©Â¡Â¢ **xremote**Â¾Ã¥Â¤ÃÂ¼Â¡Â¤ÃÂ¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¤Ã²Â¼ÃÂ¹ÃÂ¤Â¹Â¤Ã«ÃÂ¬ÃÃÂ¤Â¬Â¤Â¢Â¤Ã«Â¡Â£

```
xterm -display localhost:1
```

Â¤Â³Â¤Ã¬Â¤Â¬ÃÂµÂ¤Â·Â¤Â¯ÃÂ°ÂºÃ®Â¤Â¹Â¤Ã«Â¤Â¿Â¤Ã¡Â¤ÃÂ¤ÃÂ¡Â¢
xremoteÂ¤ÃXÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ¥Â¢Â¥Â¯Â¥Â»Â¥Â¹Â¥Â³Â¥Ã³Â¥ÃÂ¥Ã-
Â¡Â¼Â¥Ã«Â¥ÃªÂ¥Â¹Â¥ÃÂ¤Ã**localhost**Â¤ÃÂ¥Â¨Â¥Ã³Â¥ÃÂ¥ÃªÂ¡Â¼Â¤Ã²
ÃÂ²ÃÂ¤Â·Â¤ÃÂ¤Â¯Â¤ÃÂ¤ÃÂ¤ÃÂ¤Ã©Â¤ÃÂ¤Â¤Â¡Â£
Â¤Â³Â¤Ã¬Â¤Ã²Â¹ÃÂ¤Â¦Â¤ÃÂ¤ÃÂ¼Â¡Â¤ÃÂ¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¤Ã²Â¼ÃÂ¹ÃÂ¤Â¹Â¤Ã«Â¡Â£

```
xhost +localhost
```

HTTPÂ¤ÃÃÃÂ¿Â®Â¤Ã²Â°ÃÃÂ´Â¤ÃÂ¤Â¹Â¤Ã«(Securing HTTP traffic)

ZebedeeÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤Ã²“multi–use”Â¥Ã¢Â¡Â¼Â¥ÃÂ¤ÃÃÂ°ÂºÃ®Â¤ÂµÂ¤Â»Â¤Ã«Â¤Â³Â¤ÃÂ¤ÃÂ¡Â¢
ÃÂ´Â¤ÃÂ¤ÃWebÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ¤ÃÃÃÂ¿Â®Â¤Ã²Â°ÃÃÂ´Â¤ÃÂ¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤Â¬Â¤ÃÂ¤Â-
Â¤Ã«Â¡Â£ Â¤Ã¢Â¤Â·Â¡Â¢WebÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤Â¬ **webhost**
Â¤ÃÂ¥ÃÂ¡Â¼Â¥Ã80Â¤ÃÃÂ°ÂºÃ®Â¤Â·Â¤ÃÂ¤ÂªÂ¤ÃªÂ¡Â¢
Â¤Â½Â¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¥ÃÂ¥Â·Â¥Ã³Â¤Ã **Zebedee**
Â¥ÂµÂ¡Â¼Â¥ÃÂ¤Ã¢ÃÂ°ÂºÃ®Â¤Â·Â¤ÃÂ¤Â¤Â¤Ã«Â¤ÃÂ¤Â·Â¤Â¿Â¤Ã©Â¡Â¢
Â¼Â¡Â¤ÃÂ¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¤Â¬Â¥Ã-
Â¡Â¼Â¥Â«Â¥Ã«Â¥ÃÂ¥Â·Â¥Ã³Â¤Ã8000ÃÃÂ¥ÃÂ¡Â¼Â¥ÃÂ·ÃÂ³Â¤ÃÂ¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â¤Ã²ÃÃÃªÂ¤Â¹Â¤Ã«Â¡Â£

```
zebedee 8000:webhost:80
```

will set up a tunnel via port 8000 on the client host. Now any URLs that previously were addressed via **webhost**, for example:

```
http://webhost/private/index.html
```

Â¤ÃÂ¡Â¢Â¤Â³Â¤ÃÂ¾ÃµÃÃÂ¤ÃÂ¤ÃÂ¼Â¡Â¤ÃURLÂ¤ÃÂ°ÃÃÂ´Â¤ÃÂ¥Â¢Â¥Â¯Â¥Â»Â¥Â¹Â¤ÃÂ¤ÂÂ¤Ã«Â¡Â£

```
http://localhost:8000/private/index.html
```

"localhost:8000"Â¤ÃÂ²Â¤Â¢Â¤ÃÂ¤Â¿Â¤ÃÂ¥ÃÂ¥ÃÂ¥ÂÂ¥Â·Â¡Â¼Â¤ÃÂ¤Â·Â¤ÃÃÃÃªÂ¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤ÃÂ¡Â¢ ÃÂ´Â¤ÃÂ¤ÃHTTPÂ¤ÃÂ¥ÃÂ¥Ã©Â¥ÃÂ¥Â£Â¥ÃÂ¥Â¯Â¤ÃÂ²Â°ÃÃÂ´Â¤ÃÂ¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â·ÃÃÂ³Â¤ÃÂ¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤Ã¢Â¤ÃÂ¤ÂÂ¤Ã«Â¡Â£ Â¤Â·Â¤Ã«Â¤Â·Â¡Â¢ÃÃÂ°ÃÂ¤Â¹Â¤ÃÂ¤ÃÂ¤Â³Â¤ÃÂ¤ÃÂ¡Â¢HTTPÂ¤ÃÂ¥ÃÂ¥ÃÂ¥ÂÂ¥Â·Â¡Â¼ÃÃÃÂªÂ°ÃÂ³Â°Â¤ÃÂ¤Â³Â¤ÃÃÃÃªÂ¤ÃÂ²Â¤Â·Â¤ÃÂ¤ÃÂ¤ÃÂ¤Â¤Â±Â¤ÃÂ¤Â¤Â¡Â£ Secure HTTPÂ¤ÃÂ²Â´ÃÂ¤Ã ÃÂ¾Â¤ÃÂ¥ÃÂ¥ÃÂ¥ÃÂ¥Â³Â¥Ã«Â¤ÃÃÂ¾Â¤ÃÃÂ½ÃÂ¡Â¤ÃÂ¥ÃªÂ¥ÃÂ¥Â¤Â¥Ã¬Â¥Â¯Â¥ÃÂ¤Â¹Â¤Ã«ÃÂ¬ÃÃÂ¤Â¬Â¤Â¢Â¤Ã«Â¡Â£ Â¤ÃÂ¤ÃÂ¤Â³Â¤ÃÂ¤ÃÂ¥ÃÂ¥Ã©Â¥Â¦Â¥Â¶Â¤ÃÂ°Ã£Â¤Â¦Â¥ÃÂ¥Ã¡Â¥Â¤Â¥Ã³Â¤ÃÂ°Ã£Â¤Â¦Â¥ÃÂ¥ÃÂ¥ÂÂ¥Â·Â¡Â¼Â¤ÃÂ³ÃÂ¤ÃÂªÂ¤Â¢Â¤ÃÂ¤Ã«ÃÃÃÂªÂ¤Ã¢Â²ÃÃÂ½Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£ Â¤Â½Â¤ÃÂ¤Â¿Â¤Ã¡Â¡Â¢ÃÂ¬ÃÃÂ¤ÃÂ¤Ã¢Â¤ÃÂ¤ÃÂ¤Â±ÃÂªÂ¤ÃÂ³Â¤ÃÂ¥Â¬Â¡Â¼Â¥ÃÂ¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤Ã¢Â¤ÃÂ¤ÂÂ¤Ã«Â¡Â£ Â¤Â³Â¤Ã¬Â¤ÃÂ²Â¹ÃÂ¤ÃÂ¤Â¦ÃÃ½ÃÂ¡Â¤ÃÂ¤ÃÂ¤Â¤ÃÂ¤ÃÂ¥ÃÂ¥Ã©Â¥Â¦Â¥Â¶Â¤ÃÂ¥ÃÂ¥ÃÂ¥Ã¥Â¥Â¢Â¥Ã«Â¤ÃÂ²Â»Â²Â¾ÃÂ¤ÂµÂ¤Ã¬Â¤Â¿Â¤Â·Â¡Â£

FTPÂ¤ÃÃÃÂ¿Â®Â¤ÃÂ²Â°ÃÃÂ´Â¤ÃÂ¤Â¹Â¤Ã«(Securing FTP traffic)

Â°ÃÂ²Â¼Â¤ÃÂ¼ÃªÃÃÂ¤ÃÂ¡Â¢ **Zebedee**Â¤ÃÂ²Â»ÃÂ¤ÃÂ¤ÃÂ¿Â¤Â¯Â¤ÃFTPÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ¤ÃFTPÂ¥Â³Â¥Ã³Â¥ÃÂ¥ÃÂ¡Â¼Â¥Ã«Â¥Â³Â¥ÃÂ¥Â¯Â¥Â·Â¥Ã§Â¥Ã³ (Â¥Ã¦Â¡Â¼Â¥Â¶ÃÂ¾Â¤ÃÂ¥ÃÂ¥Â¹Â¥Ã¯Â¡Â¼Â¥ÃÂ¤Â¬ÃÂ·Â¤Ã©Â¤Ã¬Â¤Ã«Â¥Â³Â¥ÃÂ¥Â¯Â¥Â·Â¥Ã§Â¥Ã³)Â¤ÃÂ²Â¼Ã©Â¤Ã«Â¤Â³Â¤ÃÂ¤Â¬Â¤ÃÂ¤ÂÂ¤Ã«Â¡Â£ Â¤ÂµÂ¤Ã©Â¤ÃÂ¡Â¢**Zebedee**Â¥ÃÂ¥ÃÂ¥Â±Â¡Â¼Â¥Â¸Â¤ÃÂ´ÃÂ¤ÃÂ¤Ã¬Â¤Ã« **ftpgw.tcl** Â¥Â¹Â¥Â¯Â¥ÃªÂ¥ÃÂ¥ÃÂ¤ÃÂ¤Ã¨Â¤ÃÂ¤ÃÂ¡Â¢ Â¥ÃÂ¥ÃÂ¥Â·Â¥ÃÂ¥Ã¢Â¡Â¼Â¥ÃÂ¤ÃÂ¥ÃÂ¡Â¼Â¥Â¿Â¥Â³Â¥ÃÂ¥Â¯Â¥Â·Â¥Ã§Â¥Ã³Â¤ÂµÂ¤Ã¨Â¤Ã¢Â¼Ã©Â¤Ã«Â¤Â³Â¤ÃÂ¤Â¬Â¤ÃÂ¤ÂÂ¤Ã«Â¡Â£

FTPÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ²Â°Â·Â¤Â¦ÂºÃÂ¤Ã¢ÃÂ±Â½Ã£Â¤ÃÃÂ½ÃÂ¡Â¤ÃÂ¡Â¢Â°ÃÂ²Â¼Â¤ÃÂ¤Ã¨Â¤Â¦Â¤Ã **Zebedee** Â¤ÃÂ²ÂµÂ¯ÃÂ°Â¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤ÃÂ¡Â£

```
zebedee -s -r ftp ftpserverhost
```

FTPÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÃÂ±Â¤Â¸Â¥ÃÂ¥Â·Â¥Ã³Â¤Ã **Zebedee** Â¤ÃÂ²ÃÂ°ÂºÃ®Â¤ÂµÂ¤Â»Â¤ÃÂ¤ÃÂ¤ÃÂ¤Ã¢Â¡Â¢Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã©Â¥Â¤Â¥Ã³Â¤Ã ÃÂ¼Â¨ÃÂªÂ¤ÃÂ¥ÃÂ¥Â¹Â¥ÃÂ¾Â¤ÃÂ²Â»ÃÃªÂ¤Â¹Â¤Ã«ÃÂ¬ÃÃÂ¤Â¬Â¤Â¢Â¤Ã«(Â¤ÃÂ¤Â¿Â¤Ã **redirecthost**Â¥ÃÂ¡Â¼Â¥Ã¯Â¡Â¼Â¥ÃÂ¤ÃÂ²Â»ÃÃ)Â¡Â£Â¤Â½Â¤Ã¬Â¤ÃÂ² **localhost**Â¤ÃÂ¤Â·Â¤ÃÂ»Â²Â¾ÃÂ¤Â·Â¤ÃÂ¤ÃÂ¤ÃÂ¤Â¤Â±Â¤ÃÂ¤Â¤Â¡Â£Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¥Â·Â¥Â¹Â¥ÃÂ¥Ã Â¤ÃÂ¤Ã **Zebedee**Â¤ÃÂ²Â¼Â¡Â¤ÃÂ¤Ã¨Â¤Â¦Â¤ÃÂµÂ¯ÃÂ°Â¤Â·Â¤ÃÂ¡Â¢Â¥ÃÂ¡Â¼Â¥Ã10000ÃÃÂ·ÃÃÂ³Â¤ÃÂ¥ÃÂ¥Ã«Â¥ÃÂ¥Ã¦Â¡Â¼Â¥Â¹Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã« Â¤ÃÂ²Â¹Â½ÃÃÂ¤Â¹Â¤Ã«Â¡Â£

```
zebedee 10000:ftpserverhost:ftp
```

FTPÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÃÃÃÂ³Â¤Â¹Â¤Ã«Â¤ÃÂ¤ÃÂ¡Â¢Â¼Â¡Â¤ÃÂ¤Ã¨Â¤Â¦Â¤ÃÂ¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¤ÃÂ²Â»ÃÃÂ¤Â¹Â¤Ã«Â¡Â£

```
ftp clienthost 10000
```

Â¤Â¯Â¤ÃÂ¤Â¤ÃÂ¨Â¤Â¦Â¤ÃÂ¤Â¬Â¡Â¢**localhost** Â¤ÃÂ¤ÃÂ¤Â¯Â¥ÃÂ¡Â¼Â¥Â«Â¥Ã«Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ¥ÃÂ¥Â¹Â¥ÃÂ¾Â¤ÃÂ²Â»ÃÂ¤Â¦Â¤Â³Â¤ÃÂ¡Â£ Â¤Ã¢Â¤Â·Â¡Â¢windowsÂ¤ÃÃÂ¸Â½Ã FTPÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ¤Ã¨Â¤Â¦Â¤ÃÂ¡Â¢ Â¤Ã¢Â¤ÃÂ¤Â¿Â¤ÃFTPÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤Â¬Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¥Ã©Â¥Â¤Â¥Ã³Â¤ÃÂ¥ÃÂ¡Â¼Â¥ÃÂ¤ÃÂ²Â»ÃÃªÂ¤ÃÂ¤ÂÂ¤ÃÂ¤Â¤Â»Ã¾Â¤ÃÂ¡Â¢ Â¥ÃÂ¥ÃÂ¥Â°Â¥Ã©Â¥Ã Â¤ÃÃÂ¦Â¤Ã(FTPÂ¥Â»Â¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤ÃÃÂ¦Â¤Ã) "open clienthost 10000" Â¤ÃÂ¤Â¤Â¦Â¥Â³Â¥ÃÂ¥Ã³Â¥ÃÂ¤ÃÂ²Â»ÃÂ¤Â¦Â¤Â³Â¤ÃÂ¤Â¬Â¤ÃÂ¤ÂÂ¤Ã«Â¡Â£

Â¤Ã¢Â¤Â·Â¡Â¢Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¥ÃÂ¥Â·Â¥Ã³Â¤ÃFTPÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤Â¬ÃÂ©Â¤ÃÂ¾Ã¥Â¤Â¬Â¤ÃÂ¤ÃÂ¤Â¤ÃÂ¤Â±Â¤Ã¬Â¤ÃÂ¡Â¢ **Zebedee** Â¤Ã²Â¤Â³Â¤ÃÂ¤Ã¨Â¤Â¦Â¤ÃÂµÂ¯ÃÂ°Â¤Â·Â¤ÃÂ¤Ã¢Â¤Ã¨Â¤Â¤Â¡Â£

```
zebedee ftp:ftpserverhost:ftp
```

Â¤Â³Â¤Ã¬Â¤ÃÂ¤ÃFTPÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¥ÃÂ¥ÃÂ¥Â°Â¥Ã©Â¥Ã Â¤ÃÂ¼Â¡Â¤ÃÂ¤Ã¨Â¤Â¦Â¤ÃÂµÂ¯ÃÂ°Â¤ÃÂ¤ÃÂ¤Ã«Â¡Â£

```
ftp clienthost
```

FTPÂ¤ÃÂ¥Â³Â¥Ã³Â¥ÃÂ¥ÃÂ¡Â¼Â¥Ã«Â¥Â³Â¥ÃÂ¥Â¯Â¥Â·Â¥Ã§Â¥Ã³Â¤ÃÂ¥ÃÂ¡Â¼Â¥Â¿Â¥Â³Â¥ÃÂ¥Â¯Â¥Â·Â¥Ã§Â¥Ã³Â¤Â¬ÃÂ±Â¤Â¸Â½ÃªÂ¤Â«Â¤Ã©Ã¨Â¤ÃÂ¤Â¤ÃÂ«Â¤Â« Â¤ÃÂ¤Â¦Â¤Â«Â¥ÃÂ¥Â§Â¥ÃÂ¥Â¯Â¤Â¹Â¤Ã«FTPÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤Â¬Â¤Â¢Â¤Ã«Â¤Â¬Â¡Â¢Â¤Â½Â¤Â¦Â¤Â¤Â¦Â¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÃÃÂ¤Â·Â¤ÃÂ¤ÃÂ¾Ã¥ÂµÂ¤ÃÂ¼ÃªÃÂ¡Â¤Ã Â¤Â¦Â¤ÃÂ¤Â¯Â¤Â¤Â¤Â«Â¤ÃÂ¤Â¤Â¡Â£**wu-ftpd** Â¤ÃÂ¤Ã¨Â¤Â¦Â¤ÃÂ¥Ã¡Â¥Â¸Â¥Ã£Â¡Â¼Â¤ÃFTPÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ¤Â³Â¤ÃÃÃÂ¤Ã Â¤ÃÂ¤Â¤Â¤ÃÂ¸Â·Â¤Â·Â¤Â¯Â¥ÃÂ¥Â§Â¥ÃÂ¥Â¯Â¤Ã²ÃÃ¾Â¤Ã¬Â¤Ã«(Â¥Â»Â¥Â¥Ã¥Â¥ÃªÂ¥ÃÂ¥Â£ÃÃÂ¤Â«Â¤Ã©Â¤ÃÃÂ¾Â¤ÃÃÂ¤Â·Â¤Â¤Â¤Â³Â¤ÃÂ¤ÃÃÂ¤Â¬Â¡Ã)Â¡Â£ Â¤Ã¢Â¤Â·Â¡Â¢Â¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ¤ÃÃÃÃÂ³Â¤ÃÃÃÂ¤Ã©Â¤Â«Â¤ÃÂ¤Â¦Â¤ÃÂ¤Â¯Â¤Â¤Â¤Â¯Â¤ÃÂ¤ÃÂ¡Â¢ Â¥ÃÂ¥Â¡Â¥Â¤Â¥Ã«Â¤ÃÂ¥ÃªÂ¥Â¹Â¥ÃÂ¤ÃÃÃÂ¤ÃÃÂ½ÃÂ¤Â·Â¤ÃÂ¼ÂºÃÃÂ¤Â·Â¤Â¿Â¤ÃªÂ¥ÃÂ¥Ã³Â¥Â°Â¥Â¢Â¥ÃÂ¥ÃÂ¤Â¹Â¤Ã«Â¤ÃÂ¤Ã©Â¡Â¢ Â¤Â½Â¤ÃÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤Â¬Â¤Â³Â¤Â³Â¤Ã²Â¸Â·Â¤Â·Â¤Â¯Â¥ÃÂ¥Â§Â¥ÃÂ¥Â¯Â¤Â¹Â¤Ã«Â¥Â¿Â¥Â¤Â¥ÃÂ¤ÃÂ¤ÃÂ¤Â¿Â¡Â¢Â¤ÃÂ¤Â¤Â¤Â¦Â¤Â³Â¤ÃÂ¤ÃÂ¡Â£

Â¤Â³Â¤ÃÃÂ¤ÃÃªÂ¤Ã²Â¹Ã®ÃÃ¾Â¤Â¹Â¤Ã«Â¤ÃÂ¤Ã²Â½ÃµÂ¤Â±Â¤Ã«Â¤Â¿Â¤Ã¡Â¤ÃÂ¡Â¢**ftpgw.tcl** Â¤ÃÂ¤Â¤Â¦FTPÂ¥Â²Â¡Â¼Â¥ÃÂ¥Â¦Â¥Â§Â¥Â¤Â¤Ã Â¥Â¹Â¥Â¯Â¥ÃªÂ¥ÃÂ¥ÃÂ¤Â¬ **Zebedee** Â¥ÃÂ¥ÃÂ¥Â±Â¡Â¼Â¥Â¸Â¤ÃÂ¤ÃÂ´ÃÂ¤ÃÂ¤Ã¬Â¤ÃÂ¤Â¤Â¤Ã«Â¡Â£ Â¤Â³Â¤ÃÂ¥ÃÂ¥Â°Â¥Ã©Â¥Ã Â¤ÃÂ¥ÃÂ¥ÃªÂ¡Â¼Â¤ÃÃÂ¾Â¼ÃªÂ²ÃÃÂ½Â¤ÃÂ¤Â¢Â¤Ã«TclÂ¥Â¹Â¥Â¯Â¥ÃªÂ¥ÃÂ¥ÃÂ¥Â£Â¥Ã³Â¥Â°Â¸ÃÂ¸Ã¬ (http://www.scriptics.comÂ»Â²Â¾Ã)Â¤ÃÂ½Ã±Â¤Â«Â¤Ã¬Â¤ÃÂ¤Â¤Â¤ÃÂ¡Â¢ FTPÂ¤ÃÂ¥ÃªÂ¥Â¯Â¥Â¨Â¥Â¹Â¥ÃÂ¤Ã²ÃÂ¦Â·ÃÂ¤Â·Â¤ÃÂºÃÃÂ·Â¿Â®Â¤Â·Â¡Â¢Â¥ÂµÂ¡Â¼Â¥ÃÂ¤Â«Â¤Ã©**Zebedee** Â¤ÃÃÂ¸ÂºÃÂ¤Ã²Â±Â£Â¤Â¹Â¡Â£ Â¤Â³Â¤Ã¬Â¤Ã **Zebedee** Â¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÃÂ±Â¤Â¸Â¥ÃÂ¥Â·Â¥Ã³Â¤ÃÃÃ¶Â¤Ã©Â¤Â»Â¤Ã«ÃÂ¬ÃÃÂ¤Â¬Â¤Â¢Â¤Ã«Â¡Â£ FTPÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤Ã¢ÃÂ±Â¤Â¸Â¥ÃÂ¥Â·Â¥Ã³Â¤ÃÃÂ°Â¤Â¤Â¤ÃÂ¤Â¤Â¤Ã«Â¤ÃÂ¤Ã©Â¡Â¢ÃÂ±Â¤ÃÂ¤Â³Â¤Â¦ÂµÂ¯ÃÂ°Â¤Â¹Â¤Ã¬Â¤ÃÂ¤Ã¨Â¤Â¤Â¡Â£

```
tclsh ftpgw.tcl
```

Â¤Â³Â¤Ã¬Â¤ÃÂ¥Â²Â¡Â¼Â¥ÃÂ¥Â¦Â¥Â§Â¥Â¤Â¤ÃÂ¥ÃÂ¡Â¼Â¥Ã2121Â¤ÃÃÃÂ¤ÃÂ¼ÃµÂ¤Â±Â¤Ã«Â¡Â£ÃÃÂ¤Ã©Â¤Â«Â¤ÃÂ¡Â¢Â¼ÃÂ°ÃÂ¤ÃÂ»ÃÃÃÂ¤ÃÂ¤ÃÂ¤Â³Â¤Ã¬ Â¤Ã²Â¥ÃÂ¥ÃÂ¥Â¯Â¥Â°Â¥Ã©Â¥Â¦Â¥Ã³Â¥ÃÂ¤ÃÂµÂ¯ÃÂ°Â¤Â·Â¤Â¿Â¤Â¤Â¤ÃÂ¤Ã Â¤Â¦Â¡Â£Â¤Â½Â¤Ã¬Â¤Â«Â¤Ã©Â¡Â¢**Zebedee**Â¥ÂµÂ¡Â¼Â¥ÃÂ¤Ã²

```
zebedee -s -r 2121
```

Â¤ÃÂ¤Â·Â¤ÃÂµÂ¯ÃÂ°Â¤Â¹Â¤Ã«Â¡Â£

Â¤Â³Â¤ÃÂ¥Â±Â¡Â¼Â¥Â¹Â¤ÃÂ¤ÃÂ¥Ã Â¡Â¼Â¥Â«Â¥Ã«Â¥ÃÂ¥Â¹Â¥ÃÃÂ¾Â¤Ã²Â»ÃÃªÂ¤Â¹Â¤Ã«ÃÂ¬ÃÃÂ¤ÃÂ¤ÃÂ¤Â¤ (Â¤Â·Â¤Â¿Â¤Â±Â¤Ã¬Â¤ÃÂ¤Â·Â¤ÃÂ¤Ã¢Â¤Â«Â¤ÃÂ¤Ã¯Â¤ÃÂ¤Â¤Â¤Â¬)Â¡Â£ Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¦Â¤ÃÂ¤ÃÂ¤Â³Â¤Â¦Â¤Â¹Â¤Ã«Â¡Â£

```
zebedee 2121:ftpserverhost:2121
```

Â¤Â½Â¤Ã¬Â¤Â«Â¤Ã©Â¤Â³Â¤Â¦Â¤Â¹Â¤Ã«Â¡Â£

```
ftp clienthost 2121
```

Â¤Â³Â¤ÃÂ¤Ã©Â¤ÃÂ¤ÃÂ¡Â¢Â¤Â³Â¤ÃÂ¾Ã¬Â¹Ã§Â¤ÃÂ¤Ã¢Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¥ÃÂ¥Â¹Â¥ÃÃÂ¾Â¤Ã²Â»ÃÂ¤Â¦Â¡Â£

Â¤Â³Â¤ÃÃÃÃªÂ¤ÃÂ¤ÃÂ¡Â¢FTPÂ¤ÃÂ¥Â³Â¥Ã³Â¥ÃÂ¥ÃÂ¡Â¼Â¥Ã«Â¥Â³Â¥ÃÂ¥Â¯Â¥Â·Â¥Ã§Â¥Ã³Â¤ÃÂ¥ÃÂ¥Ã³Â¥ÃÂ¥Ã«Â¤ÂµÂ¤Ã¬Â¤Ã«Â¤Â¬Â¡Â¢ Â¥ÃÂ¡Â¼Â¥Â¿Â¥Â³Â¥ÃÂ¥Â¯Â¥Â·Â¥Ã§Â¥Ã³Â¤ÃÂ¤ÃÂ°Ã¬ÃÂ±ÃÂ¶ÃÂ¤Ã²ÃÂ¿Â¤Â¨Â¤ÃÂ¤Â¤Â¡Â£ Â¤Ã¢Â¤Â·Â¡Â¢Â¤Â¢Â¤ÃÂ¤Â¿Â¤ÃFTPÂ¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤Â¬Â¥ÃÂ¥ÃÂ¥Â·Â¥ÃÂ¥Ã¢Â¡Â¼Â¥ÃÂ¤Ã²Â¥ÂµÂ¥ÃÂ¡Â¼Â¥ÃÂ¤Â·Â¤ÃÂ¤Â¤Â¤Ã¬Â¤ÃÂ¡Â¢ **ftpgw.tcl** Â¤ÃÂ¥ÃÂ¡Â¼Â¥Â¿Â¥ÃÂ¥Ã£Â¥Ã³Â¥ÃÂ¥Ã«Â¤Ã¢Â°ÃÃÂ´ÃÂ¤ÃÂ¤Â¹Â¤Ã«Â¤Â³Â¤ÃÂ¤Â¬Â¤ÃÂ¤Â«Â¡Â£ Netscape Navigator Â¤Ã¤ WindowsÃÃÂ¤ÃWS_FTPÂ¤ÃÂ¤ÃÂ¤ÃÂ¤Â½Â¤Ã¬Â¤Ã²Â¥ÂµÂ¥ÃÂ¡Â¼Â¥ÃÂ¤Â·Â¤ÃÂ¤Â¤Â¤Ã«Â¡Â£

Â¥ÃÂ¥ÃÂ¥Â·Â¥ÃÂ¥Ã¢Â¡Â¼Â¥ÃÂ¤ÃÂ¥ÃÂ¡Â¼Â¥Â¿Â¥Â³Â¥ÃÂ¥Â¯Â¥Â·Â¥Ã§Â¥Ã³Â¤Ã²Â°ÃÃÂ´ÃÂ¤ÃÂ¤Â¹Â¤Ã«Â¤Â¿Â¤Ã¡Â¤ÃÂ¤ÃÂ¡Â¢

Â¤ÃÂ¤Âº Â¥ÃÂ¡Â¼Â¥Â¿Â¥Â³Â¥ÃÂ¥Â¯Â¥Â·Â¥Ã§Â¥Ã³Â¤ÃÂ»ÃÂ¤Â¦Â¥ÃÂ¡Â¼Â¥ÃÃÂ¹Ã¦Â¤ÃÃÂ°ÃÂ¤Ã²ÃÂªÂ¤ÃÂ¤ÃÂ¤Â¯Â¤ÃÂ¤ÃÂ¤Â¤Â±Â¤ÃÂ¤Â¤Â¡Â£
Â¤Â³Â¤ÃÃÃ£Â¤ÃÂ¤ÃÂ¡Â£30000Â¤Â«Â¤Ã©30100ÃÃÂ¤Ã²Â»ÃÂ¤Â¦Â¤Ã¢Â¤ÃÂ¤ÃÃÂ¤Â¹Â¤Ã«Â¡Â£
Â¤ÃÂ¤Âº Â¡Â¢**ftpgw.tcl** Â¤Ã²
ÂµÂ¯ÃÂ°Â¤Â¹Â¤Ã«Â»Ã¾Â¤ÃÂ¡Â¢Â¤Â³Â¤ÃÂ¥ÃÂ¡Â¼Â¥ÃÃÂ°ÃÂ¤Ã²Â»ÃÃÂªÂ¤Â¹Â¤Ã«Â¤Â¿Â¤Ã¡Â¤ÃÂ¡Â¢
–pÂ¥ÂªÂ¥ÃÂ¥Â·Â¥Ã§Â¥Ã³Â¤Ã²Â»ÃÃÂ¤Â¹Â¤Ã«Â¡Â£

```
tclsh ftpgw.tcl -p 30000-30100
```

ZebedeeÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ¤Â³Â¤ÃÂ¤Ã¨Â¤Â¦Â¤ÃÂµÂ¯ÃÂ°Â¤Â¹Â¤Ã«Â¡Â£

```
zebedee -s -r 2121,30000-30100
```

Â¥Â¯Â¥Ã©Â¥Â¤Â¥Â¢Â¥Ã³Â¥ÃÂ¤ÃÂ¤Â³Â¤Â¦Â¤ÃÂ¡Â£

```
zebedee 2121,30000-30100:ftpserverhost:2121,30000-30100
```

NetscapeÂ¤Ã²Â»ÃÂ¤ÃÂ¤ÃÂ¥Â³Â¥Ã³Â¥ÃÂ¥ÃÂ¡Â¼Â¥Ã«Â¥Â³Â¥ÃÂ¥Â¯Â¥Â·Â¥Ã§Â¥Ã³Â¤ÃÂ¥ÃÂ¡Â¼Â¥Â¿Â¥Â³Â¥ÃÂ¥Â¯Â¥Â·Â¥Ã§Â¥Ã³Â¤Ã² ÃÂ¾ÃÂ½Â°ÃÂ´Â¤ÃÂ¥Â¢Â¥Â¯Â¥Â»Â¥Â¹Â¤Â¹Â¤Ã«Â¤ÃÂ¤ÃÂ¡Â¢Â¤Â³Â¤ÃÂ¤Ã¨Â¤Â¦Â¤ÃURLÂ¤Ã²ÃÂ¾ÃÂ¤Â¹Â¤Ã«Â¡Â£

```
ftp://username@clienthost:2121/
```

Â¤Â³Â¤Â³Â¤Ã*username*Â¤ÃFTPÂ¥ÂµÂ¡Â¼Â¥ÃÂ¤ÃÂ¤ÃÂ¥Ã¦Â¡Â¼Â¥Â¶ÃÂ¾Â¤ÃÂ¤Â¢Â¤Ã«Â¡Â£

CREDITS AND LEGALITIES

The following information can also be found in the file *LICENCE.txt* in the **Zebedee** distribution.

```
Copyright (c) 1999, 2000, 2001 by Neil Winton. All Rights Reserved.
```

```
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the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.
```

```
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GNU General Public License for more details.
```

```
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along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA  02111-1307,
USA.
```

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You may obtain the latest copy of **Zebedee**, including full source code from http://www.winton.org.uk/zebedee/ and other enquiries about **Zebedee** can be e–mailed to the author at zebedee@winton.org.uk

Zebedee would not have been possible without the use of a large amount of freely-available software to do all the really hard stuff. I gratefully acknowledge the contributions made by the authors of the following software packages.

Zebedee uses the "Blowfish" encryption algorithm devised by Bruce Schneier. For more information on Blowfish see http://www.counterpane.com/blowfish.html . The implementation used is by Eric Young and is covered by the following copyright:

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```

```
This package is an Blowfish implementation written
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```

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu
```

Zebedee may use the **bzip2** compression library by Julian Seward which is covered by the following licence:

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Julian Seward, Cambridge, UK.
jseward@acm.org
bzip2/libbzip2 version 1.0 of 21 March 2000
```

By default **Zebedee** is built using an aribtrary precision integer arithmetic library derived from the sources to `mirrordir-0.10.49` which in turn derived this from the **Python** sources. The copyright is as follows:

```
huge-number.c: arbitrary precision integer library from Python sources
This has nothing to do with cryptography.
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```

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This file was taken from the Python source for ‘long’ type integers. I have changed it to compile independently of the Python source, and added the optimisation that GNU C can use 31 bit digits instead of Python’s 15 bit. You can download the original from www.python.org. This file bears little resemblance to the original though − paul

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Zebedee uses the Secure Hash Algorith (SHA) the code for which was derived from Uwe Hollerbach’s SHA module for **perl**. The code contains the following statement:

NIST Secure Hash Algorithm
heavily modified by Uwe Hollerbach <uh@alumni.caltech edu>
from Peter C. Gutmann’s implementation as found in
Applied Cryptography by Bruce Schneier

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```

Thanks

Special thanks go to those people who have taken the trouble to give me feedback and suggestions for improvement!

```
$Id: zebedee.pod,v 1.1.1.1 2001/04/12 18:08:29 ndwinton Exp $
```