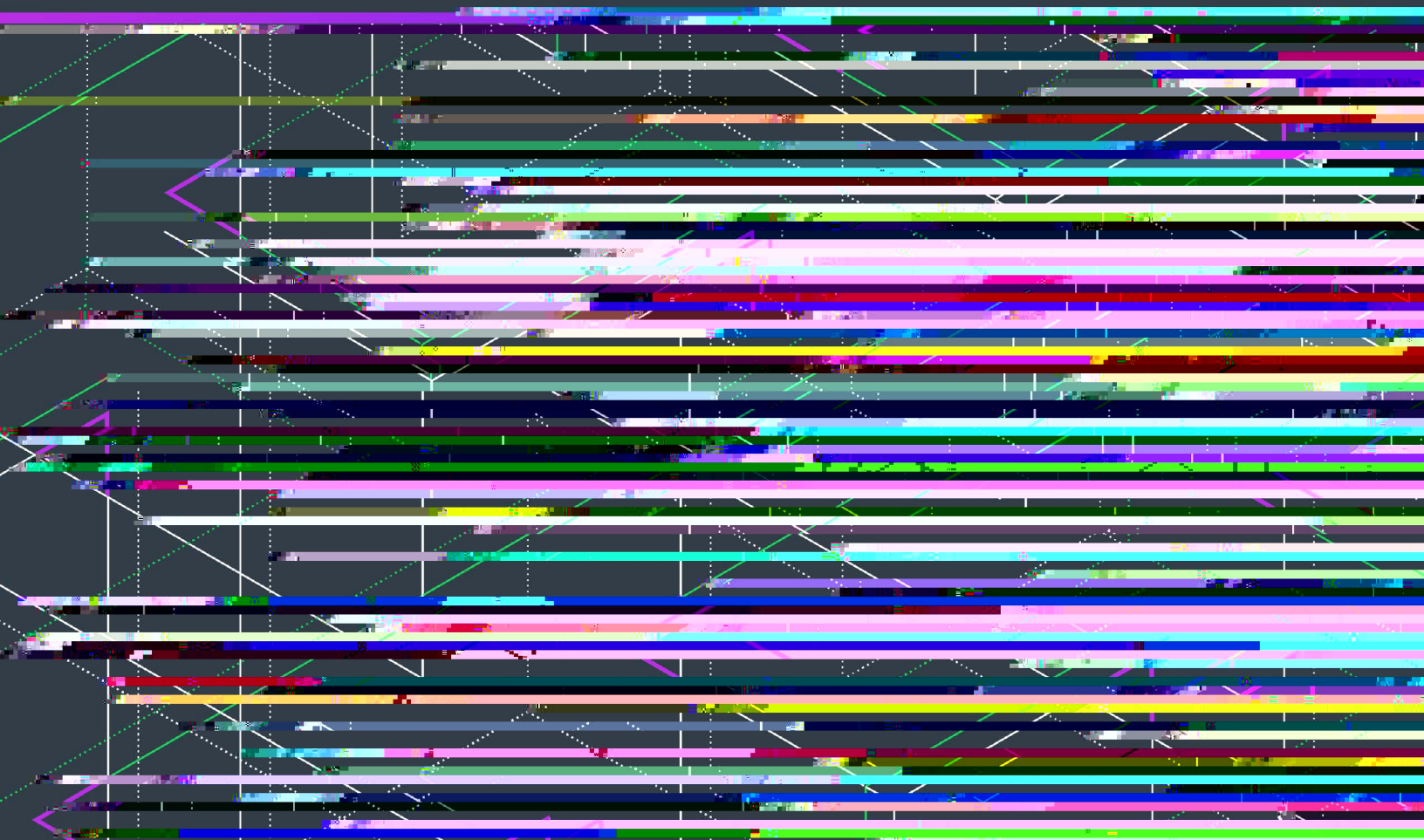
FlexNet Publisher 2023 R2 (11.19.4)



Contents

1 FlexNet Publisher License Administration Guide 11

Product Support Resources 12

Contact Us 14

2 Overview of Licensing 15

License Server 16

Using a License Server With License Files 17

3 Trusted Storage 19

Overview of Trusted Storage 19

"VUPNBUFE %FMJWFSZ PG -JDFOTFT UP B -JDFOTF 4FSWFS

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Using a License Server With Trusted Storage 21

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1"$,"(& -JOFT
61(3"%& -JOFT
Order of 42

10 License Server Manager “lmgrd” 103
lmgrd Command-Line Syntax 103
Starting the License Server Manager on UNIX Platforms 106
.BOVBM 4UBSU
"VUPNBUJD 4UBSU
4ZTUFNE $POGJH 'JMF
4ZTUFN7 *OJU 4DSJQU
Starting the License Server Manager on Windows 109
.BOVBM 4UBSU GSPN UIF $PNNBOE -JOF
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$POGJHVSJOH UIJHVSJOH UIJHVSJOH U` 4FSWFS .B h BHS ð tFF H ðHJ JH à ð
$POGJHVS
$POGJHVS
$POGJHVS
$PO0 ð FS .BGBHFSE& ðHt ý` 0 à H`ð -J JH d ðG(ð ` H €ðHF H ðHB@
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M N W F S
M N W N J O G P
0 U I F S *N Q P S U B O U 6 U J M J U J F T
M N P C G T M P H
lmtools (Windows only) 154

13 Managing the Options File 156
Creating an Options File 157
Options File Syntax 157
"6 5 0 ." 5 * $ @ 3 & 3 & " %
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How the Ve ow the Vendo. . e Vendo. . e Ven . . e Vend . e Vend. . e Veʊ ļ . . e Vd. . e Vddʌe Vddɐ ɔ
H . 184
4 H. e Vend

6TJOH MNBENJO
6TJOH MNHSE
One System with One License Server and Multiple License Files. 215
4UBSUJOH UIF -JDFOTF 4FSWFS
6TJOH MNBENJO
6TJOH MNHSE
Managing Multiple License Files. 218
.BOBHJOH .VMUJQMF 'JMF JO MNBENJO
.BOBHJOH .VMUJQMF 'JMFT JO MNHSE
%FGJOJOH UIF -JDFOTF 'JMF -JTU
Additional Considerations 219

*OGPSNBUJPOBM .FTTBHFT
$POGJHVSBUJPO 1SPCMFN .FTTBHFT
%BFNPO 4PGUXBSF &SSPS .FTTBHFT

23 Identifying FlexNet Publisher Versions 251

Version Compatibility Between Components 251

Determining the License File Version 252

24 Environment Variables. 253

How to Set Environment Variables 253

8JOEPXT 3FHJTUSZ
1SFDFFOEDF

Environment Variables 254

1

FlexNet Publisher License Administration Guide

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BENJOJTUFS 'MFY/FU 1VCMJTIFS MJDFOTJOH GPS MJDFOTF NPEFMT UIBU SF

*O UIJT EPDVNFOU |ZPV} HFOFSBMMZ SFGFST UP UIF MJDFOTF BENJOJTUS

Table 1-1 • -JDFOTF "ENJOJTUSBUJPO (VJEF '/1 -"($PNQBOZ $POGJEFOUJ

Section	Content
This section	"O PWFSWJFX PG UIF DPOUFOUT PG UIJT EPDVN
Overview of Licensing	0WFSWJFX PG MJDFOTJOH BOE TQFDJGJDBMMZ GJMFT
Trusted Storage	"O PWFSWJFX PG MJDFOTJOH VTJOH MJDFOTF S TUPSBHF
Reading a License File	" EFTDSJQUJPO PG UIF FMFNFOUT JO B MJDFOT
Locating Licenses	)PX UP MPDBUF MJDFOTFT TP UIBU UIFZ BSF BW BQQMJDBUJPOT
Hostids for Supported Platforms	%FUBJMT PG IPTUJET BWBJMBCMF CZ QMBUGPS DIPPTJOH BO &UIFSOFU BEESFTT BT IPTUJE
License Models	0WFSWJFX@PGTC BTXDNB@FOaJFX0pp DMt`UBCB `FNcJ0

‡ 3FWFOFSB 4VQQPSU

Revenera Product Documentation

:PV DBO GJOE EPDVNFOUBUJPO GPS BMM 3FWFOFSB QSPEVDUT BU UIF GPMMPXJOH MPDBUJPO

IUUQT EPDT SFWFOFSB DPN

Revenera Community

0O UIF 3FWFOFSB $PNNVOJUZ ZPV DBO RVJDLMZ GJOE BOTXFST UP ZPVS RVFTUJPOT DVTUPNFST QSPEVDU FYQFSUT BOE UIPVHHU MFBEFST :PV DBO BMTP QPTT UP BZ

2

Overview of Licensing

'MFY/FU 1VCMJTIFS JT B NFUIPE PG QSPWJEJOH TPGUXBSF MJDFOTJOH UIB

‡ **FlexEnabled application** x5IF TPGUXBSF BQQMJDBUJPO UIBU SFRVJSFT B MJDFOTF

‡ **A license** x$POUBJOT UIF MJDFOTF SJHIUT UIBU EFGJOF IPX UIF TPGUXBSF B

5ZQJDBMMZ UIF MJDFOTF EFGJOFT

‡ 8IBU TPGUXBSF GVODUJPOBMJUZ DBO CF VTFE 'VODUJPOT QSPWJEFE CZ MJDFOTFE GVODUJPOT GFBUVSFT BSF EFGJOF QSPEVDU DBO CF MJDFOTFE CZ JODMVEJOH EJGGFSFOU GFBUVSF TFUT UIF QSPEVDU DPVME JODMVEF UIF GFBUVSF yUSJBMz UIF yTUBOEBSEz W yCBTJDz BOE UIF yQSPGFTTJPOBMz WFSTJPO yUSJBMz yCBTJDz BOE yFY

‡ 8IBU WFSTJPOT PG UIF TPGUXBSF DBO CF VTFE

‡)PX NBOZ DPQJFT PG UIF TPGUXBSF DBO CF SVOOJOH

‡ 5IF TZTUFNT PO XIJDI UIF TPGUXBSF DBO CF VTFE

‡ 5IF QFSJPE EVSJOH XIJDI UIF TPGUXBSF DBO CF VTFE

5IFTF BOE PUIFS JUFNT JO UIF MJDFOTF EFGJOF IPX UIF TPGUXBSF DBO CF MJDFOTF NPEFM

5IF MJDFOTF DBO CF TUPSFE

‡ **In a license file** x" UFYU GJMF DPOUBJOJOH BMM PS TPNF PG UIF MJDFOTF DPOUFOUT BSF QSPUFDUFE CZ TJHOB

PO Cð UY` VPT @ N@p A€@ FP TÒp4ðTFð0PBSCFO„B TF JW

-‡ B

VPTòÐp J3BJ ! FÐ F @yð @ @A ? 'Z

5IJT EPDVNFOU EFTDSJCFT IPX UP JOTUBMM BOE VTF B MJDFOTF TFSWFS U
VTF TFSWFE MJDFOTF NPEFMT 5IF CBTJD MJDFOTF NPEFM UIBU SFRVJSFT
EFQFOEJOH PO UIF DPOUFYU

‡ $PODVSSFOU

‡ 'MPBUJOH

$PODVSSFOUFDOTFT BMMPX B GJYFE OVNCFS PG DPODVSSFOU VTFST UP VTF
MJDFOTF TFSWFS DPOUSPMT UIF VTF PG UIFTF MJDFOTFT XIJDIBSFBOPU O
PO UIF OFUXPSL 'MFY/FU 1VCMJTIFS QSPWJEFT GPS NBOZ WBSJBUJPOT PG
B TFU PG DPODVSSFOU MJDFOTFT DBO CF SFTUSJDUFE UP B HSPVQ PG VTF

License Server

5IF CBTJD DPNQPOFOUT PG B 'MFY/FU 1VCMJTIFS MJDFOTF TFSWFS BSF BT

‡ **License server manager** x Ž•ƒ†•‹•P Š•‰”†TVQQMJFE CZ ZPVS TPGUXBSF TVQQMJFS PS

‡ **License file** x$SFBUFE CZ ZPVS TPGUXBSF TVQQMJFS *O UIJT EPDVNFOU UIF T
SFGFSSFE QP CMJUIFS

‡ **Vendor daemon** x$SFBUFE CZ UIF QVCMJTIFS &BDI QVCMJTIFS IBT UIFJS PXO W
'MFY&OBCMFE BQQMJDBUJPOT GSPN TFWFSBM QVCMJTIFST ZPV XJMM OI

‡ **Debug log** x8SJUUFO CZ UIF MJDFOTF TFSWFS NBOBHFS

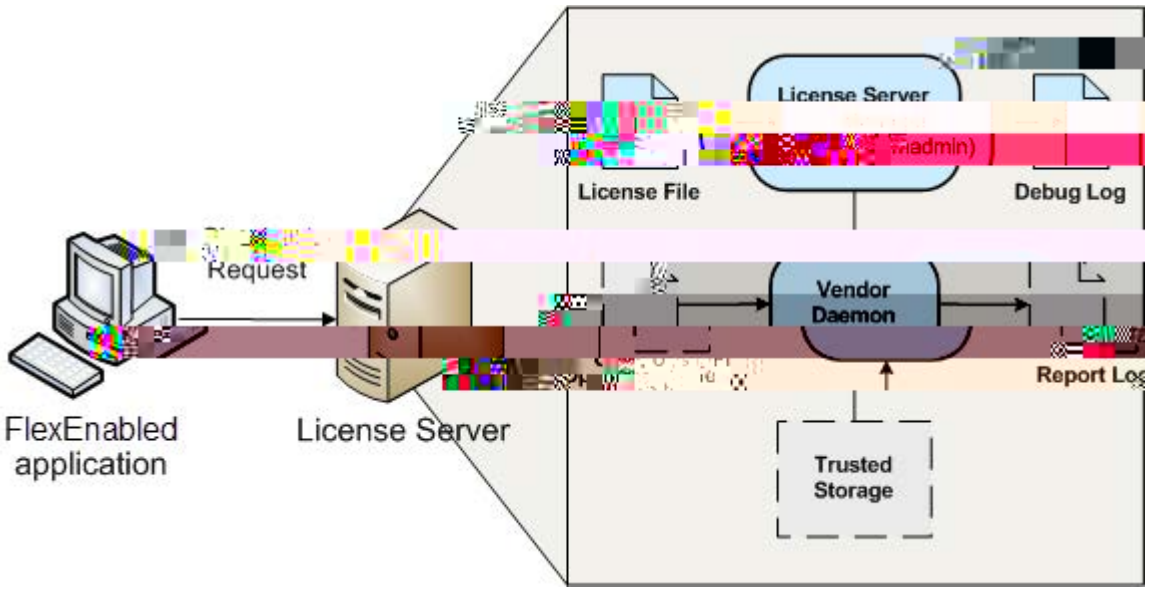

Figure 2-1: 'MFY/FU 1VCMJTIFS MJDFOTF TFSWFS

5IF GPMMPXJOH DPNQPOFOUT NBZ CF QSFTFOU PO B MJDFOTF TFSWFS

‡ **Options file** x0QUJPOBM GJMF UIBU ZPV DSFBUF 6TF JU UP MJNJU MJDFOTF V
MJDFOTFT UP B VTFS PS HSPVQ PG VTFST

3

Trusted Storage

4PNF QVCMJTIFST VTF USVTUFE TUPSBHF UP TUPSF MJDFOTFT 5IFZ NJHIU
VTF B DPNCJOBUJPO PG MJDFOTFT IFME JO MJDFOTF GJMFT BOE JO USVTU
TFSWF MJDFOTFT GSPN CPUI MJDFOTF GJMFT BOE USVTUFE TUPSBHF

Overview of Trusted Storage

5SVTUFE TUPSBHF JT B TFDVSF MPDBUJPO UIBU JT MPDLFE UP UIF NBDIJOF
NBDIJOF JEFOUJUJFT 5IF DPOUFOUT PG USVTUFE TUPSBHF BSF FODSZQUF
DPNQPOFOUT 5IJT NFUIPE PG TUPSJOH MJDFOTFT FOBCMFT ZPVS QVCMJTI
BVUPNBUF TPNF MJDFOTJOH QSPDFTTFT

Automated Delivery of Licenses to a License Server

5SVTUFE TUPSBHF JT NBJOUBJOFE CZ MJDFOTJOH MJGF DZDMF PQFSBUJPO

‡ **Rehost of license server** x8IFO ZPV OFFE UP NPWF B MJDFOTF TFSWFS UP B EJGGF
SFUVSO BOE UIFO BDUJWBUJPO PQFSBUJPOT DBO QSPWJEF B DPNQMFUF

/PUF/PU BMM QVCMJTIFST QSPWJEF UIFTF GBDJMJUJFT

Using Licenses From Trusted Storage on a License Server

5XP UZQFT PG MJDFOTFT DBO CF VTFE JO USVTUFE TUPSBHF PO B MJDFOTF
CPUI PG UIFTF UZQFT PG MJDFOTF 5IFZ BSF VTFE UP QSPWJEF EJGGFSFOU

‡ **Concurrent** x"MMPXT B GJYFE OVNCFS PG DPODVSSFOU VTFST UP VTF MJDFOT
TFSWFS DPOUSPMT UIF VTF PG UIFTF MJDFOTFT XIJDI BSF GMPBUJOH
UIF OFUXPSL 'MFY/FU 1VCMJTIFS QSPWJEFT GPS NBOZ WBSJBUJPOT PG
PG B TFU PG DPODVSSFOU MJDFOTFT DBO CF SFTUSJDUFE UP B HSPVQ P

‡ **Activatable** x-JDFOTFT BSF EJTUSJCVUFE CZ UIF MJDFOTF TFSWFS UP OFUXPS
'MFY&OBCMFE BQQMJDBUJPOT *O UIJT MJDFOTF NPEFM 'MFY&OBCMFE D
MJDFOTF GSPN UIF MJDFOTF TFSWFS -JDFOTF SJHIUT IFME JO USVTUFE
USVTUFE TUPSBHF PO UIF OFUXPSL NBDIJOF 5IJT QSPWJEFT B MJDFOTF
%FQFOEJOH PO XIJDI MJDFOTF NPEFMT ZPVS QVCMJTIFS JT QSPWJEJOH
BOE BVUPNBUJDBMMZ SFUVSO UP UIF MJDFOTF TFSWFS XIFO UIFZ FYQJS
USBOTGFSSFE UP UIF OFUXPSL NBDIJOF yQFSNBOFOUMZz

Trusted Storage Components on a License Server

5IF CBTJD DPNQPOFOUT PG B 'MFY/FU 1VCMJTIFS MJDFOTF TFSWFS UIBU V
JMMVTUSBUFE JPPSBðPFSPäÐMPXJPPH EJ` ...SBá³

‡ **Server activation utility** x" 'MFY&OBCMFE DPNQPOFOU UIBU NBOBHFT UIF USBOTBDU
BOE DSFBUFT BOE NBOBHFT UIF DPOUFOUT PG USVTUFE TUPSBHF

Figure 3-1: -JDFOTF 4FSWFS 6TJOH -JDFOTFT JO 5SVTUFE 4UPSBHF

5IF GPMMPXJOH DPNQPOFOUT OPU TIPXO PO UIF EJBHSBN NBZ CF QSFTFOU

‡ **Debug log** x8SJUUFO CZ UIF MJDFOTF TFSWFS NBOBHFS

‡ **Options file** x0QUJPOBM GJMF UIBU ZPV DSFBUF

‡ **Report log** x0QUJPOBM GJMF VTFE CZ 'MFY/FU .BOBHFS

Using a License Server With Trusted Storage

5IF GPMMPXJOH HJWFT BO PVUMJOF PG UIF TUFQT JO JOTUBMMJOH B MJDF
TUPSBHF 'PS GVSUIFS JOGPSNBUJPO BCPVU FBDI PG UIFTF TUFQT SFBE UI

$IPPTF UIF NBDIJOF T PO XIJDI UIF MJDFOTF TFSWFS T XJMM CF JOTUB

‡ %FUFSNJOF UIF OVNCFS PG MJDFOTFT BOE NBDIJOFT PO XIJDI 'MFY&O
4FMFDUJOH B -JDFOTF G4PS GV SUIFS JOGPSNBUJPO

‡ $POTJEFS XIBU NFUIPE JG BOZ ZPV XBOU UP VTF UP FOTVSE UIBU XI
ZPVS FOE VTFST VSF H -JDFOTF GPS GVSUIFS JOGPSNBUJPO

*OTUBMM UIF MJDFOTF TFSWFS DPNQPOFOUT

5IF QVCMJTIFS XJMM TVQQMZ B DPQZ PG IJT WFOEPS EBFNPO BOE JOTUS
QSPWJEFT UIF MJDFOTF• /FU•SWF• %‰ "OBHFS MJDFOTF• /FU•SWF• TQMBCZEHF
EFUBJMT PG MJDFOTFT IF• %‰ JOD MVEF EFUBJMT PG MJDFOTF NBOBHFS
USVTUFE TUPSBHF CVU EPFT OPU EJTQMBZ EFUBJMT PG BDUJWBUBCMF M
JOTUBMMBT ZPVS MJDFOTF TFSWFS NBOBHFS

*OTUBMM MJDFOTFT PO UIF MJDFOTF TFSWFS

5IF QVCMJTIFS XJMM TVQQMZ JOTUSVDUJPOT BOE TPGUXBSF UIBU SFRVF

*OTUBMM UIF 'MFY&OBCMFE BQQMJDBUJPO PO FOE VTFS NBDIJOFT

5IF QVCMJTIFS XJMM TVQQMZ JOTUBMMBUJPO JOTUSVDUJPOT GPS JOTUB
GVSUIFS 'MFY&OBCMFE DPNQPOFOUT

4FU VQ FOE VTFS NBDIJOFT UP BDDFTT UIF MJDFOTF TFSWFS UP PCUBJC

5IFSF BSF TFWFSBM NFUIPET PG DPOGJHVSJOH UIF FOE VTFS NBDIJOF U
MJDFOTF TFSWFST 5IFTF EFQFOE PO UIF DPOUFOUT PG BOZ MJDFOTF G
QVCMJTIFS BOE ZPVS MJDFOTF TFSWFS T

0QUJPOBMMZ DSFBUF BO PQUJPOT GJMF

*G ZPV XBOU UP MJNJU MJDFOTF VTBHF DPOGJHVSF MPHHJOH PS UVSO
PQUJPOT GJMF BOE JOTUBMM JU JO UIF TBNF EJSFDU
0QUJPOT 'JMF

$POGJHVSF BOE TUBSU VQ UIF MJDFOTF TFSWFS NBOBHFS

0QUJPOBMMZ JOTUBMM OPEF MPDLFE MJDFOTFT PO FOE VTFS NBDIJOFT
TFSWFS

5IF QVCMJTIFS XJMM TVQQMZ JOTUSVDUJPOT GPS SFRVFTUJOH MJDFOTF
NBZ CF JOTUBMMFE PO UIF FOE VTFS NBDI
UP /FUXPSLFE oBLDIJOFT

5IF 'MFY&OBCMFE DPNQPOFOUT SFRVJSFE UP JNQMFNFOU UIF EJTUSJCVUJP NBDIJOFT VTJOH USVTUFE TUPSBHF BSF

‡ **License server manager** x6TŽ•ƒ†•‹BT UIF MJDFOTF TFSWFS NBOBHFS BT JU EJTQMB MJDFOTFT IFME JO USVTUFE TUPSBHF

‡ **Vendor daemon** x$SFBUFE CZ UIF QVCMJTIFS 5IJT NVTU CF UIF QVCMJTIFS WFO USVTUFE TUPSBHF &OTVSF UIBU ZPV BMXBZT VTF UIF DPSSFDU WFOEPS WFSTJPO UIBU JT POMZ BCMF UP VTF MJDFOTF GJMFT XJMM OPU CF BCM

‡ **Trusted storage on license server** x$POUBJOT BDUJWBUBCMF MJDFOTFT UIBU DBO CF U NBDIJOF $PODVSSFOU MJDFOTFT DBO POMZ CF VTFE UP JNQMFNFOU GM

‡ **Server activation utility** OPU TIPXO x5IF 'MFY&OBCMFE DPNQPOFOU PO UIF MJDFO MPBET MJDFOTFT JOUP UIF TFSWFSzT USVTUFE TUPSBHF GSPN UIF QVCM UIF TFSWFSzT USVTUFE TUPSBHF UISPVHI SFUVSO SFQBJS BOE NPEJGZ

‡ **Application activation utility** x" 'MFY&OBCMFE DPNQPOFOU UIBU SFRVFTUT B MJDFOT TFSWFS PS UIF QVCMJTIFSzT BDUJWBUJPO TFSWFS BOE DSFBUFT BOE NE QVCMJTIFS DBO JOUFHSBUF UIJT GVODUJPOBMJUZ JOUP B DPNQPOFOU U VUJMJUZ DPVME CF JOUFHSBUFE JOUP UIF 'MFY&OBCMFE BQQMJDBUJPO

‡ **Trusted storage on the network machine** x$POUBJOT MJDFOTFT MPDLFE UP UIF NBDIJOF

‡ **FlexEnabled application** x5IF BQQMJDBUJPO UIBU SFRVJSFT UIF MJDFOTF /PUF UIE CFFO CVJMU CZ ZPVS QVCMJTIFS TP UIBU JU DBO BDDFTT USVTUFE TUPS WFSTJPO PG UIF BQQMJDBUJPO

:PV DBO VTF UIF PQUJPOT GJMF UP SFTUSJDU UIF EJTUSJCVUJPO PG OPEF .BOBHJOH UIF 0QUJPOT GJMF

Ac l’ Ac ee c Ő l’ s Q

" CJOEJOH JUFN JT B EFBM CSFBLFS JG XIFO JU DIBOHFT USVTU TIPVME C
JUFNT UIBU TUJMM NBUDI 4JODF BMM CJOEJOH JEFOUJUJFT VTFE JO WJSU
CF MPTU PG BOZ PG UIFN DIBOHF

Best Practices

To Avoid Trusted-Storage Breakage

G UIF QVCMJTIFS DIPPTFT UP CJOE USVTUFE TUPSBHF UP UIF 7.% UIJT C
7.*% JT EFSJWFE FWFS DIBOHF PS JT OP MPOHFS BWBJMBCMF 5IF CSFBL
JNBHFT BSF DMPOFE)PXFWFS JG ZPV NBOBHF B WJSUVBMJ[FE FOWJSPON
CFUXFFO EJGGFSFOU OBUJWF QIZTJDBM TZTUFNT ZPV EP OPU XBOU USV
NBDIJOF JOTUBODF

5P QSFWFOU CSFBLBHF VTF UIFTF CFTU QSBDUJDFT

‡ %P OPU DIBOHF UIF ."$ BEESFTT PG UIF WJSUVBM NBDIJOF

‡ %P OPU DIBOHF UIF 66*% PG UIF WJSUVBM NBDIJOF XIFO JU JT NPWFE
NBDIJOF JT DMPOFE

‡ 4BWF UIF DPOGJHVSBUJPO GJMF PS BU MFBTU UIF 66*% PG FBDI WJSUV
BDUJWBUJPO JT QFSGPSNFE 5IJT GJMF FOTVSFT UIBU UIF 66*% WBMVF V
ZPV OFFE UP SFWFSU UP UIJT WBMVF

‡ 4IPVME USVTUFE TUPSBHF CSFBL VTF UIF BDUJWBUJPO VUJMJUZ UP JTT
66*% UP UIF WBMVF JU IBE BU BDUJWBUJPO UJNF QPXFSJOH UIF NBDIJO

To Avoid Issues with the Licensing Life-Cycle Operations

"MUIPVHI CPUI DPNQPTJUF BOE TJOHMF BDUJPO USBOTBDUJPOT BSF TVQQP
CFUXFFO UIF QVCMJTIFSzT BDUJWBUJPO TFSWFS BOE UIF MJDFOTF TFSWFS
USBOTBDUJPOT *TTVFT DBO BSJTF JG ZPV BUUFNQU UP NJY DPNQPTJUF BO
DPNQPTJUF USBOTBDUJPOT TVQQPSU 6./ BOE 6./ XIJMF TJOHMF BDUJPO U
DPNQPTJUF USBOTBDUJPO JT VTFE JOJUJBMMZ UP BDUJWBUF MJDFOTFT PO

4

Reading a License File

" MJDFOTF GJMF DPOUBJOT JOGPSNBUJPO SFRVJSFE UP NBOBHF MJDFOTFT JODMVEFT

‡ -JDFOTF TFSWFS OBNFT BOE IPTUJET

‡ 7&/%03 OBNFT BOE QBUIT UP WFOEPS EBFNPO FYFDVUBCMFT

‡ 'FBUVSF JOGPSNBUJPO

5IF MJDFOTF GJMF NVTU CF BDDFTTJCMF UP TZTUFNT UIBU SVO UIF 'MFY&O TFF -PDBUJOH-BOE-JDFOTF "WBJMBCJMJUZ

License File Format Overview

-JDFOTF GJMFT CFHJO XJUI FJUIFS B TJOHMF 4&37&3 MJOF PS UISFF 4&37& SFEVOEBODZ GPMMPXFE CZ POF PS NPSF 7&/%03 MJOFT GPMMPXFE CZ PO TPNF DBTFT UIF MJDFOTF GJMF SFRVJSFT OP 4&37&3 MJOF BOE OP 7&/%03

/PUF&JHIU CJU -BUJO CBTFE DIBSBDUFST BSF GVMMZ TVQQPSUFE JO MJDFO 'MFY&OBCMFE BQQMJDBUJPO FOWJSPONFOUT

4FF $PVOUFE WT 6ODPVOUFE JDFOTFS GPS NPSF JOGPSNBUJPO PO 4&37&3 BOE 7&/%03 MJC

:PV DBO NPEJGZ UIFTF FMFNFOUT JO UIF MJDFOTF GJMF

‡ 0O UIF 4&37&3 MJOF

  ‡)PTU OBNFT PO UIF 4&37&3 MJOFT

  ‡ 5$1 *1 QPSU OVNCFST

  ‡)&"35#&"5@*/5&37"- BOE 13*."3:@*4@."45&3 QSPQFSUJFT

‡ 0O UIF 7&/%03 MJOF

‡ 1BUIT UP UIF WFOEPS EBFNPO

‡ 0QUJPOT GJMF QBUIT

‡ 5$1 *1 QPSU OVNCFST GPS GJSFXBMM TVQQPSU POMZ

‡ 5IF 64&@4&37&3 MJOF

‡ 0O UIF GFBUVSF EFGJOJUJPO MJOFT

‡ 5IF WBMVFT JO ƒ BSF PO '&"563&4 JOTUFBE
,FZXPSET %FGJOFE CZ UIF -JDFOTF "ENJOJTUSBUPS

‡ :PV DBO VTF MJOF DPOUJOVBUJPO DIBSBDUFS UP CSFBL VQ MPOH MJOF

See Also
&OTVSJOH -JDFOTF "WBJMBCJMJUZ
$PVOUFE WT 6ODPVOUFE -JDFOTFT

License File Syntax

5IJT TFDUJPO EFTDSJCFT UIF DPOUFOUT PG UIF MJDFOTF GJMF JODMVEJO
FYBNQMF PG B MJDFOTF GJMF GPS B TJOHMF 7&/%03 OBNF XJUI UXP GFBUV

```
•›O•‡"˜‡" hneen‡ƒo hnee
•ƒ•'Ž‡†
 ^h •ƒ•'Ž‡† h\eee jh^†‡…^ieie he     °Q³\\\´Q
 ^i •ƒ•'Ž‡† h\eee jh^†‡…^ieie he     °Q³\\\´Q
```

5IJT FYBNQMF BMMPXT UIF **my_server** TFSWFS UFO GMPBUJO
GPS FBDI **flexlm** BOE **12** BOZ VTFS PO UIF OFUXPSL

SERVER Lines

5IF 4&37&3 MJOF TQFDJGJFT UIF IPTU OBNF BOE IPTUJE PG UIF MJDFOTF TI
MJDFOTF TFSWFS NBZ BMTP JODMVEF UIF PQUJPOBM QPSU OVNCFS PG UIF 4&37&3 MJO
UIBU ZPV BSF VTJOH MJDFOTF TFSWFST DPOGJHVSFE GPS UISFF TFSWFS S
UIBU FWFSZ GFBUVSF EFGJOJUJPO MJOF JO UIF MJDFOTF GJMF JT VODPVO

5IF IPTUJET GSPN UIF 4&37&3 MJOFT BSF DPNQVUFE JOUP UIF MJDFOTF LFZ
'PS UIJT SFBTPO NBLF TVSF ZPV LFFQ 4&37&3 MJOFT UPHFUIFS XJUI BOZ G
GSPN UIF TPGUXBSF QVCMJTIFS

5IF GPSNBU PG UIF 4&37&3 MJOF JT

```
Š'•–Š'•–‹ƒ'‘"–„ ƒ      O O      „ ƒ      O    •‡..°'•„‡•
```

'PS FYBNQMF

```
•›O•‡"˜‡" hneen‡ƒo ihpon
```

5IF GPMMPXJOH UBCMF EFTDSJCFT UIF BUUSJCVUFT PO UIJT MJOF

Table 4-1 • 4&37&3 -JOF 'PSNBU

Field	Description
Š‘•–	5IF TZTUFN IPTU OBNF PS *1 BEESFTT ŠU•S•Jƒ•H•PSSFUVSO —•ƒ•‡ ^D•PNNBOE
Š‘•–‹†	6TVBMMZ UIF TUSJOH Ž•Š•F•U‹D•SPONNEBOE U5IFJT JT DIBOHFE P ZPVS QVCMJTIFS
’‘”–	5$1 *1 QPSU OVNCFS UP VTF :PV DBO FEJU UIJT WBMVF GJMF PŠ•ŸT•J‹O*HD UIF MBUUFS DBTF UIF QŽ•ƒU•OVNCFS T UBLFT QSFDFEFODF PWFS BOZ QPSU TFU JO UIF MJDFOT QPSU JT TQFDŽ•GJF•E5VFTJOGPSF FEJUJOH UIF QPSU OVN Ž•ƒ†•‹JT POMZ SFDPNNFOEFE JG OP QPSU OVNCFS JT TQ

PRIMARY_IS_MASTER

6TFE XJUI MJDFOTF TFSWFST DPOGJHVSFE GPS UISFF T
IPX NBTUFS DPOUSPM JT USBOTGFSSFE CFUXFFO UIF QS

‡ *G UIJT JT TFU BOE UIF QSJNBSZ TFSWFS HPFT EPXO
DPNFT CBDL VQ B

‡ *G UIJT JT OPU T UI IF` JU€!ÐpS PN T €!Ð

See Also

&OTVSJOH -JDFOTF "WBJMBCJMJUZ

VENDOR Lines

5IF 7&/%03 MJOF TQFDJGJFT UIF EBFNPO OBNF BOE QBUI 5IF MJDFOTF TFS
EBFNPO BOE UIF WFOEPS EBFNPO SFBET JU UP GJOE JUT PQUJPOT GJMF

Optional Publisher-Defined Keywords

5BCMFMJTUT BUUSJCVUFT UIBU NBZ BQQFBS JO B '&"563& PS */$3&.&/5 MJO

SFBJO UO`SF3 D OPU CF BM PFE00FP

ISSUER="..." *TTVFS PG UIF MJDFOTF

NOTICE="..." " GJFME GPS JOUFMMFDUVBM QSPQFSUZ OPUJDFT

ONE_TS_OK %FUFDUT XIFO B OPEF MPDLFE VODPVOUFE MJDFOTF JT V VOEFS SFNPUF EFTLUPQ

5IF GPMMPXJOH BSF UIF UXP TDFOBSJPT XIFSF ZPV DBO F DPEFT

‡ ^hno[•–‡"•ƒŽ ‡""‘"Y 'Ž‡ƒ•‡ "‡'‘"– –‘ ‡˜‡•‡"ƒ \

5IJT FSSPS PDDVST XIFO BO BENJOJTUSBUPS QFSGPSN EFTLUPQ DIFDLPVU PO NPSF UIBO POF UFSNJOBM TFSW

‡ ^hnp[•Ž› '•‡ –‡"•‹•ƒŽ •‡"˜‡" "‡•'–‡ …Ž‹‡•– …Š‡…•'—– ‹• ƒŽŽ'™ –Š‹• ˆ‡ƒ––"‡\

5IJT FSSPS PDDVST XIFO B OPSNBM VTFS QFSGPSNT NP DIFDLPVU PO NPSF UIBO POF UFSNJOBM TFSWFS SFNPU

/PUF0ƒ&@54@0, BUUSJCVUF JT POMZ VTFE XJUI VODPVOUF TVQQPSUFE XJUI DPVOUFE TFSWFE MJDFOTFT

OVERDRAFT=• 5IF PWFSESBGU QPMJDZ BMMPXT B TPGUXBSF QVCMJTIFS MJDFOTFT XIJDI VTFST BSF BMMPXFE UP VTF JO BEEJUJP QVSDIBTFE 5IJT BMMPXT ZPVS VTFST UP OPU CF EFOJFE PWFSESBGU} TUBUF 6TBHF BCPWF UIF MJDFOTF MJNJU JT SFQPSUJOH UPPM

SN=•‡"‹ƒŽU•—• 4BBC@p`5T U 0TF V ` 0 UB FJUJGZ 0`H @€UU

SUPERSEDE_SIGN=
{f1:xxxx, f2:xxxx)

Examples

•ƒ•'Ž‡Oƒ'' •ƒ•'Ž‡† i\jee jh^†‡…^ieie ie °Q³\\\´Q
ˆh •ƒ•'Ž‡† h\eee '‡"•ƒ•‡•– l ° °hpl\hom\‹\‹ °Q ‹…‡••‡† –‘ N
ƒ•'Ž‡ …'"'Q °Q³\\\´Q

Optional Keywords Defined by the License Administrator

5IF GPMMPXJOH BUUSJCVUFT BSF VOEFS DPOUSPM PG BUUSJCVUF‡›™BWfŽ–BŽZOUBY•X‡IF™STHT JO MPXFSDBTF

Table 4-5 • 0QUJPOBM 'FBUVSF -JOF "UUSJCVUFT

Attribute	Description
asset_info="..."	"EEJUJPOBM JOGPSNBUJPO QSPWJEFE CZ UIF MJDFOTF B NBOBHFNFOU 5IJT LFZXPSE DBO CF VTFE JO DPNCJOBUJPO XJUI UIF PQ NPEJGJFS UP EFOPUF B TQFDJGJD HSPVQ PG *NJDFOTFT BEEJUJPO UIJT JOGPSNBUJPO JTTUSVPSUFVESFOBTJDEFOCF SFUSJFWFE MBUFS GPIS_auth_dataQMF CZ DBMMJOH
dist_info="..."	"EEJUJPOBM JOGPSNBUJPO QSPWJEFE CZ UIF TPGUXBSF 5IJT LFZXPSE DBO CF VTFE JO DPNCJOBUJPO XJUI UIF PQ NPEJGJFS UP EFOPUF B TQFDJGJD HSPVQ PG *NJDFOTFT BEEJUJPO UIJT JOGPSNBUJPO JTTUSVPSUFVESFOBTJDEFOCF SFUSJFWFE MBUFS GPIS_auth_dataQMF CZ DBMMJOH
sort=OOO	4QFDJGJFT TPSU PSEFS PG4MSJDFOTFT GJMF MJOFT 4FF
user_info="..."	"EEJUJPOBM JOGPSNBUJPO QSPWJEFE CZ UIF MJDFOTF M UJ

Character Limitations in Keyword Values

*O QMBDFT XIFSF B LFZXPSEPSVBMVFMJOFBJT B TUSJOH TVSSPVOEFE XJUI EI UIF TUSJOH DBO DPOUBJO BOZ DIBSBDUFST FYDFQU UIF GPMMPXJOH

‡ 4JOHMF PS EPVCMF RVPUFT XJUIJO UIF TVSSPVOEJOH EPVCMF RVPUFT

‡ 5IF CBDLTMBTI DIBSBDUFS TFRVFODF = TQBDF CBDLTMBTI TQBDF

‡ 5IF EPVCMF CBDLTMBTI DIBSBDUFS TFRVFODF == TQBDF CBDLTMBTI C

Sort Rules

'FBUVSF EFGJOJUJPO MJOFT BSF BVUPNBUJDBMMZ TPSUFE XIFO UIFZ BSF S
BSF BT GPMMPXT

-JDFOTF GJMF "VUPNBUJD TPSUJOH EPFT OPU PDDVS BDSPTT GJMFT JO

'FBUVSF OBNF

7&/%03@453*/(FOUSZ

'&"563& CFGPSF */$3&.&/5

6ODPVOUFE CFGPSF DPVOUFE

7FSTJPO FBSMJFS WFSTJPOT CFGPSF MBUFS WFSTJPOT

*TTVFE EBUF JO SFWFSTF PSEFS OFXFTU GJSTU 5IF EBUF JT UBLFO GS

0SJHJOBM PSEFS JT PUIFSXJTF NBJOUBJOFE

:PV DBO PWFSSJEF UIF BVUPNBUJD [illegible] WBMVF EFGJOJUJPOT BOE [illegible] GFBUVSFT [illegible] WBMVF GPS FBDI GFBUVSF JT TFU UP "MM MJOFT XJUI UIF TBNF OVN WBMVF SBOHF [illegible] DPOWFSUT JU UP

0WFSSJEJOH UIF TPSU PSEFS NJHIU CF VTFGVM UP DIBOHF UIF PSEFS JO X GPMMPXJOH FYBNQMF " DPNQBOZ IBT NVMUJQMF QPPMT PG MJDFOTFT XJU UIFJS VTFST UP GJSTU DPOTVNF UP DIF U•JDƒEFS#TFH4P IJ

DP@@•F UP D [illegible]

Examples

```
•—‹–‡ •ƒ•’Ž‡† h\e     °Q³\\\´Q N
          °Q…‘•’h …‘•’iQ        °
•—‹–‡ •ƒ•’Ž‡† h\e jh^†‡…^ieie I     °Q³\\\´Q
```

5IJT JT B UZQJDBM

Setting the License Search Path Using an Environment Variable

$PNQBOZ $POGJEFOUJBM '/1 -"('MFY/FU 1VCMJTIFS 3 -JDF

6

Hostids for Supported Platforms

'MFY/FU 1VCMJTIFS VTFT TZTUFN *OGPSNBUJPO UBC 5IF TZTUFN *OGPSNBUJPO UBC JEFOUJGJFST NBZ CF TZTUFN TQFDJGJD 'PS FYBNQMF BMM 4VO .JDSPTZTU

Hostid Formats

/VNFSJD CJU IPTUJET BSF OPSNBMMZ VTFE JO IFYBEFDJNBM GPSNBU 0C SFUVSOT UIF *% JO EFDJNBM GPSNBU JO WBSJPVT GPSNBUT UIF IPTUJE UP JOEJDBUF B EF JG UIF TZTUFN DPNNBOE JT VOBWBJMBCMF 1VCMJT IPTUJE BMTP QSJOUT UIF IPTUJE JO EFDJNBM WBMVF UP IFYBEFDJNBM

Obtaining System Hostids

5IF•Š‘•–‹¥UJMJUZ QSJOUT UIF FYBDU IPTUJE UIBU 'MFY/FU 1VCMJTIFS SFRV DPOUBJOT DIBSBDUFST PUIFS UIBO UIF "4$** " UISPVH^—;–^BQUISPVHIJUIPS Ž•Š‘•–‹†5P WJFX B DPSSFDU SFQSFTFOUBUJPO PG UIF SFTVMUJOH IPTUJE V 65' FODPEFE TUSJOHT

Ž•ƒ†•‹EJTQMBZT IPTUJET BWBJMBCMF GPS UIF MJDFOTF TFSWFS PO UIF 4ZT

#FDBVŽ•ƒ†•‹JT BWBJMBCMF POMZ BT B CJU QSPDFTT UIF CJU 'MFY/FU -. EJTQMBZ 51. Ž•ƒ†•‹JM4ZTOFN *OGPSNBUJPO UBC 5IF CJU 'MFY/FU -JDFOTJ UIF J @O LJU 5IF 51. IPTUJE JT DVSSFOUMZ TVQQPSUFE PO 8JOEPXT QME

/PUF'PS UIF GPMMPXJOH DBTFT EP OPU VTF UIF 4ZTUFN *OGPSNBUJPO UBC IPTUJET *OTUFBE VTF UIF NFUIPET JOTUFBE

‡ **When the license server is operating on a virtual machine but bound to the physical hardware** x" MJNJUBUJPO JOŽ•ƒ†•‹DBVTFT UIF 4ZTUFN *OGPSNBUJPO UBC UP TIPX WJSUVBM NBDIJOF /BNF *1W "EESFTT *1W "EESFTT &UIFSOFU "EESFTT BOE 7PMVNF 4FS NBDIJOF WBMVFT

‡ **When running license clients or a license server in an Amazon EC2 environment** x"U UIJT UJNF UIF 4ZTU
*OGPSNBUJPO QBHF JT VOBCMF UP TIPX IPTUJET TQFDJGJD UP UIF "NB[P

5IF GPMMPXJOH UBCMFŽMJ'+kB TE NBM UBSQMF NFUIPET UP PCUBJO UIF SFRV
TZTUFN BSDIJUFDUVSF 'MFY/FU 1VCMJTIFS BMTP TVQQPSUT B HSPVQ PG T

Linux &UIFSOFU BEES ^‡–Š‡” eekeelhm lil

/PUF5 JT DPNNBOE MJTUT BMM BWBJMBCMF &UIF
PS JOBDUJWF JODMVEJOH UIPTF GPS UFBN CP

u•„‹•u‹^…‘•^‹‰ ³‡–Š‡”•‡–O• eekeelhm lil

XIFS³ –Š‡”•‡–O• POF PG
UIFTF &UIFSOFU JOUFSGBDF OBNFT

‡ ‡–Šš

‡ 0UIFS OBNF UZQF GPS FYBNQMF
'j'k

‡ „‘•†e GPS B UFBN CPOEJOH WJSUVBM
BEBQUPS

3FNPWF DPMPOT GSPN SFUVSOFE
)8BEES

'MFY/FU *% ^Ž‡š‘•–‹† ^‹Ž‡š‹† °p^„iolie„p
QPSU EPOHMF Ž•Š‘•–‹† ^‹Ž‡š‹† ^Ž‘•‰

/PUF5 F DPNNBOE ^Ž‡š‘•–‹† ^‹Ž‡š‹† GFUDI UIF EPOH
BOE Ž•Š‘•–‹† ^‹Ž‡š‹† ^Ž‘•‰ NBOE JT VTFE UP HFU UIF
a< p P IÀ‡š Mp E ^0

'MFY/FU *% Ž•Š‘•–‹† ^ˆŽ‡š‹† °p^„iolie„p
QBSBMMFM P‹S 64#
QPSU EPOHMF Ž•Š‘•–‹† ^ˆŽ‡š‹† ^Ž‘•‰

/PUF'Þ S QBSBMMFM `MÀÔp ˜“€F • $ F

Special Hostids

'MFY/FU 1VCMJTIFS DPOUBJOT B OVNCFS PG TQFDJBM IPTUJE UZQFT UIBU E

$PNQBOZ $POGJEFOUJBM '/1 -"('MFY/FU 1VCMJTIFS 3 -JDF

Examples

```
ˆh †‡•‘ h\e jh^†‡…^ieie —•…‘—•–‡† N
     °     °p^ƒmjeeehlˆ     °j³\\\´j
```

PS

```
ˆh †‡•‘ h\e jh^†‡…^ieie —•…‘—•–‡† N
     °      °he\he\he\‹     °j³\\\´j
```

Ethernet Hostids

5IF &UIFSOFU BEESFTT JT VTFE PO TPNF TZTUFN BSDIJUFDUVSFT BT UIF IP
RVBOUJUZ XJUI FBDI CZUF TQFDJGJFE BT UXP IFYBEFDJNBM EJHJUT 4QFD
BEESFTT BT B IPTUJE 'PS FYBNQMF[illegible]

4FWFSBM EFWJDFT XJUI BO FUIFSOFU BEESFTT DBO CF BUUBDIFE UP B NBD
UIBU HFOFSBUF B EJGGFSFOU FUIFSOFU BEESFTT FBDI UJNF UIFZ BSF BDUJ
HFOFSBUF BO FUIFSOFU BEESFTT JT 71/ WJSUVBM QSJWBUF OFUXPSL TPG

UI CF SOO `U B PS D UI BF0T@PTESOF0

/PUF'MFY/FU 1VCMJTIFS DPOTJEFST UIF BEESFTT PG BOZ UFBN CPOEJOH WJ
JOUFSGBDFT BT B TUBCMF JEFOUJGJFS GPS VTF BT B QFSNBOFOU IPTUJE

TPM Hostid

'MFY/FU 1VCMJTIFS TVQQPSUT UIF 51. 5SVTUFE 1MBUGPSN .PEVMF IPTUJE
TQFDJGJFE BT 51.@*% JO MJDFOTF GJMFT 5IF 51. IPTUJE JT DVSSFOUMZ

"T B QSFSFRVJTJUF UP PCUBJOJOH BOE VTJOH UIF 51. IPTUJE B 51. WFSTJ
*O BEEJUJPO UIF 'MFY/FU -JDFOTJOH 4FSWJDF NVTU CF JOTUBMMFE

5IF 51. IPTUJE JT POMZ TVQQPSUFE PO UIF 4&37&3 MJOF *U JT TVQQPSUFE
1VCMJTIFS WFSTJPO POXBSET 5IF 51. IPTUJE JT OPU TVQQPSUFE GP

:PV DBO JEFOUJGZ UIF 51. TUBŽU–V‹•V'BDŽ–S‘U‹FPVSUUMEtpmstatusget PS OBUJWFMZ
JO 8JOEPXT CZ VTJOH UIF .JDSPTPGU–'B\•B.FQNDGJ$EOPSMCZXVTJOH 8.* BO
‹•jiO '•DMBTT

'PS 51. TUBUVT WBMVŽ•T–'B‹•PTMFQVU NCZOGQBHF

Troubleshooting

*G ZPV FODPVOUFS QSPCMFNT XIFO USZJOH UP PCUBJO UIF 51. IPTUJE DIF
CFFO NFU

‡ 5IF 'MFY/FU -JDFOTJOH 4FSWJDF NVTU CF JOTUBMMFE $POUBDU ZPVS T
JOTUBUFBMd•FVTU àF JP SàSZ NMH `O MFD IOTT•
JOTU P•H `MU PD…0 R UÐH ` P UPIF G7M GP R U PdBy7S P PCO@0HUC_Pp

7

License Models

-JDFOTF SJHIUT BSF DSFBUFE CZ UIF TPGUXBSF QVCMJTIFS -JDFOTF SJHIU
MPDLFE CPUI DPVOUFE BOE VODPVOUFE PS BOZ DPNCJOBUJPO PG GMPBU

Floating (Concurrent) Licenses

" GMPBUJOH MJDFOTF BMMPXT BOZPOF PO UIF OFUXPSL DBO VTF UIF 'MFY&OBCMFE BQQ
UIF MJDFOTF GJMF PS GVMGJMMNDFOUSVSTBSEBXTPSGJDFOTFUJOHBT MJDFO
IBWF OP IPTUJET PO UIF JOEJWJEVBM '&"563& MJOFT 'MPBUJOH MJDFOTFT
WFOEPS EBFNPO UP CF SVOOJOH UP DPVOU UIF DPODVSSFOU VTBHF PG UIF

"O FYBNQMF PG B MJDFOTF GJMF UIBU QSPWJEFT GMPBUJOH MJDFOTFT JT

Counted vs. Uncounted Licenses

5IF MJDFOTF NPEFM BT EFGJOFE JO UIF MJDFOTF GJMF PO UIF FOE VTFS N
OFFEFE *G BMM GFBUVSF EFGJOJUJPO MJOFT IBWF B MJDFOTF DPVOU TFU
EPFT OPU OFFE B MJDFOTF TFSWFS 5IJT UZQF PG MJDFOTF JT DBMMFE VO
[FSP MJDFOTF DPVOU UIFO UIF DVTUPNFS OFFET B MJDFOTF TFSWFS UP D
XBOUT UP VTF 'MFY/FU 1VCMJTIFS XJUIPVU B MJDFOTF TFSWFS UIFZ NVTU

5IF MJDFOTF TFSWFS DBO TFSWF VODPVOUFE MJDFOTFT BMTP 5IJT JT PGU

‡ 5SBOTBDUJPOT DBO CF MPHHFE JOUP UIF SFQPSU MPH GPS BMM MJDFOT
'MFY/FU .BOBHFS

‡ 0QUJPOT GJMF DPOTUSBJOUT DBO CF BQQMJFE UP UIF MJDFOTFT

8IFO TFSWJOH VODPVOUFE MJDFOTFT GSPN B MJDFOTF TFSWFS OPUF UIF

‡ *ODMVEF UIB BOE 7&/%03 MJOFT JO UIF MJDFOTF GJMF

‡ 5IF VTFS BQQMJDBUJPO NVTU QPJOU UP UIF MJDFOTF TFSWFS XJUI

‡ 4FSWFE VODPVOUFE */$3&.&/5 MJOF TJHOBUVSFT BSF OPU MJOLFE UP UI
VTJOH TFSWFE VODPVOUFE MJDFOTFT XJUI)045*% "/: JT BO FYQMPJU SJ
DPVOUFE MJDFOTFT XJUI B MBSHF DPVOU

Mobile Licensing

&OE VTFST PGUFO XBOU UP VTF BQQMJDBUJPOT PO DPNQVUFST UIBU EP OP
TFSWFS 5IFTF TJUVBUJPOT JODMVEF

‡ 8PSLJOH PO B MBQUPQ

‡ 6TJOH B DPNQVUFS CPUI BU XPSL BOE BU IPNF

‡ 8PSLJOH GSPN TFWFSBM EJGGFSFOU DPNQVUFST OPU DPOOFDUFE UP B

'MFY/FU 1VCMJTIFS TVQQPSUT MJDFOTFT UIBU BMMPX POF PG TFWFSBM LJ

‡ /PEF MPDLFE UP B MBQUPQ

‡ /PEF MPDLFE UP B 'MFY/FU *% EPOHMF

‡ /PEF MPDLFE UP B 'MFY/FU *% EPOHMF XJUI '-0"5@0, LFZXPSE

‡ -JDFOTF CPSSPXJOH XJUI #03308 LFZXPSE

‡ /PEF MPDLFE UP B VTFS OBNF

‡ 'VMGJMMFE GSPN B QSFQBJE MJDFOTF QPPM

‡ 0QUJPOBMMZ XIFO QSPWJEFE CZ VTJOH USVTUFE TUPSBHF DBO CF VTFE

:PV TIPVME VTF MJDFOTF SFIPTUJOH JG BO FOUFSQSJTF XBOUT UP NPWF B
5IF TPGUXBSF QVCMJTIFS NVTU HFOFSBUF B OFX OPEF MPDLFE MJDFOTF G
SFRVJSFT BENJOJTUSBUJWF PWFSIFBE CFDBVTF UIF TPGUXBSF QVCMJTIFS

/PUF'-•0"5@0, LFZXPSE JOUSPEVDFE JO WFSTJPO DMJFOU MJCSBSZ MJDF
"MM DPNQPOFOUT NVTU CF WFSTJPO PS MBUFS JO PSEFS UP VTF '-0"5@

License Borrowing with BORROW

5IJT NFUIPE PG JNQMFNFOUJOH NPCJMF MJDFOTJOH JT VTFE POMZ XIFO MJ

*G B MJDFOTF JT UP CF VTFE PO B DPNQVUFS UIBU JT JOUFSNJUUFOUMZ DI
JTTVFE BT B GMPBUJOH MJDFOTF XJUI UIF #03308 LFZXPSE " #03308 MJDFC
WJB B TQFDJBM DIFDLPVU BOE VTFE MBUFS UP SVO BO BQQMJDBUJPO PO B
MJDFOTF TFSWFS -JDFOTF CPSSPXJOH NVTU CF FOBCMFE CZ B TPGUXBSF

8JUI MJDFOTF CPSSPXJOH B TPGUXBSF QVCMJTIFS JTTVFT B GMPBUJOH MJ
#03308 LFZXPSE " VTFS TQFDJGJFT UIF FYQJSBUJPO EBUF B CPSSPXFE MJD
BQQMJDBUJPO XIJMF DPOOFDUFE UP UIF OFUXPSL XIJDI XSJUFT CPSSPXJOI
MJDFOTF TFSWFS LFFQT UIF CPSSPXFE MJDFOTF DIFDLFE PVU 5IF 'MFY&OB
CPSSPXJOH EBUB UP EP DIFDLPVUT EVSJOH UIF CPSSPX QFSJPE *G FOBCM
MJDFOTFT DBO CF SFUVSOFE FBSMZ UIBU JT CFGPSF UIF CPSSPX QFSJPE
PG UIF CPSSPX QFSJPE PS UIF FBSMZ SFUVSO PG B CPSSPXFE MJDFOTF UI
DIFDLPVUT BOE UIF MJDFOTF TFSWFS SFUVSOT UIF CPSSPXFE MJDFOTF UP
TZODISPOJ[BUJPO JT SFRVJSFE CFUXFFO UIF MJDFOTF TFSWFS BOE UIF TZ

Initiating License Borrowing

*G B TPGUXBSF QVCMJTIFS IBT FOBCMFE MJDFOTF CPSSPXJOH CZ JTTVJOH
UIF #03308 LFZXPSE BO VTFS JOJUJBUFT MJDFOTF CPSSPXJOH JO POF PG

‡ 6TJOH UIF CPSSPXJOH JOUFSGBDF JO BQQMJDBUJPO JG QSPWJEFE JO U

‡ 3VOOJOŽ•„U'™VUJMJUZOUP TFU

‡ 4FUUJOHOUIF FOWJSPONFOU WBSJBCMF EJSFDUMZ

Application Interface

5IF VTFS JOJUJBUFT MJDFOTF CPSSPXJOH UIJT XBZ POMZ JG UIF BQQMJDBU
BCPVU UIJT JT TVQQMJFE CZ UIF TPGUXBSF QVCMJTIFS

Running the Imborrow Utility

Ž•„‘”"‘™JT POF Ž•G—UžŽF—‘Ž•VUJMJUJFT 5P JOJUJBUF ČŽP„S"S‘PMSŽ•SOPN UIFF DVPTFNSBSDVEO
MJOF PS ŽI-S‘PŽV•HI

Ž • „ ‘ ” ” ‘ ™ ˜ ‡ • † ‘ ‰ ƒ Ž Ž ‡ • † † ƒ – ƒ ‡ ‹ • ‡

XIFS˜Ff•†‘”JT UIF WFOEPS EBFNPO UIBU TFSWFT Uƒ‡ŽŽŽTMQJEDFJDGTJFFTT UBPMMOMFWCFPOSESPPSx
JO UIF MJDFGt¶TFF† ƒT–B‡SWUFFS EBUF UIF MJDFOTF†‡Ø•F•‰›P› GGFP SSNFBWJSTOPPEQ UJDOP OBM BO
JT TQFDJGJFE JO ŠŠ•P VSSOGUPSFNTBMUF Y & O B C M F E B Q Q M–J‡D‡B U JVPODTZQ FNDFDMBEMDpU JPNJF

Support for License Borrowing

4FF UIF GPMMPXJOH TFDUJPOT GPS NPSF JOGPSNBUJPO BCPVU UIF VUJMJU
MJDFOTF CPSSPXJOH

‡ MNCPSSPX VUJMJUZ

‡ MNEPXOU VUJMJUZ

‡ MNTUBU VUJMJUZ

‡ #03308@-088"5&3 LFZXPSE

‡ &9$-6%&@#01*/5 LFZXPSE

‡ */$-6%&@#03*/5 LFZXPSE

Node-locked to a User Name

5IJT NFUIPE PG JNQMFNFOUJOH NPCJMF MJDFOTJOH JT VTFE POMZ XIFO MJ

*G B MJDFOTF JT UP CF VTFE FYDMVTJWFMZ CZ POF VTFS PO EJGGFSFOU T
VTFSzT VTFS OBNF 5IF MJDFOTF GJMF JT DPQJFE UP UIF EJGGFSFOU TZTUF
OBNF NVTU CF JEFOUJDBM PO FBDI TZTUFN 'PS UIJT NFUIPE UP CF VTFGVM
NVTU CF VOJRVF /PUF UIBU B VTFS OBNF XIFO VTFE JO B MJDFOTF GJMF J

8

Selecting a License Server Machine

8IFO TFMFDUJOH B NBDIJOF PO XIJDI UP JOTUBMM B MJDFOTF TFSWFS TFM
BSF GSFRVFOUMZ SFCPPUFE PS TIVU EPXO /PSNBMMZ JU JT OPU SFRVJSF
PQFSBUJOH TZTUFN BT PUIFS MJDFOTF TFSWFST PS UIF DMJFOU NBDIJOFT
SVOOJOH

5IF GPMMPXJOH TFDUJPOT EJTDVTT UIF SFTPVSDFT VTFE CZ UIF MJDFOTF
JOTUBMM B MJDFOTF TFSWFS ZPV NBZ OFFE UP DPOTJEFS XIFUIFS JU IBT
MJDFOTFT VOEFS BCPVU NPTU PG UIFTF TZTUFN MJNJUT BSF OPU B Q

License Server Sockets

8IFO VTJOH 5$1 *1 QPSUT FBDI 'MFY&OBCMFE BQQMJDBUJPO DPOOFDUFE U
%FQFOEJOH PO IPX UIF QVCMJTIFS JNQMFNFOUFE MJDFOTJOH UIF 'MFY&OE
TPDLFUT "TL UIF QVCMJTIFS GPS UIJT JOGPSNBUJPO 5IF QFS QSPDFTT TZ
OVNCFS PG TPDLFUT BWBJMBCMF UP UIF MJDFOTF TFSWFS 5IF UPUBM OVN
TMJHIUMZ MBSHFS UIBO UIF UPUBM OVNCFS OFFEFE CZ UIF 'MFY&OBCMFE E

*G UIF OVNCFS PG TPDLFUT SFRVJSFE CZ UIF MJDFOTF TFSWFS PO B TJOHM
JT UP SVO NVMUJQMF MJDFOTF TFSWFST BOE TQMJU UIF MJDFOTFT CFUXFF
MJDFOTF TFSWFS 3FWFSE4PDLFDZ 6TJOH UIF -JDFOTF 4FBSDI 1BUI GPS JOTUSVDUJPO
DPOGJHVSBUJPO :PVS QVCMJTIFS XJMM OFFE UP BHSFF UP JTTVF OFX MJD
FYJTUJOH MJDFOTF TFSWFS *G UIF MJDFOTFT BSF IFME JO USVTUFE TUPSE
QSPDFTT GPS SFUVSOJOH UIFN BOE BDUJWBUJOH UIFN PO BOPUIFS MJDFOT

License Server CPU Time

'PS TNBMM OVNCFST PG DMJFOUT UIF MJDFOTF TFSWFST VTF WFSZ MJUUM
B GFX TFDPOET PG $16 UJNF BGUFS NBOZ EBZT

License Server Locally Mounted Disks

*U JT SFDPNNFOEFE UIBU ZPV EP OPU VTF SFNPUF NPVOUFE EJTLT XIFO ZP
JT SFDPNNFOEFE UIBU UIF WFOEPS EBFNPOT UIF MJDFOTF GJMF BOE UIF
BSF BMM PO MPDBMMZ NPVOUFE EJTLT *G BOZ PG UIFTF GJMFT BSF PO B S
GBJMVSF XIJDI DPVME MFBE UP B UFNQPSBSZ MPTT PG BMM PG ZPVS MJDF
MJDFOTFT BSF BWBJMBCMF BT MPOH BT UIF TFSWFS JT SVOOJOH 8IFO UIF
CFDPNF VOBWBJMBCMF JG UIF MJDFOTF TFSWFS PS GJMF TFSWFS GBJMT

License Server Port

*U JT SFDPNNFOEFE UIBU B TQFDJGJD QPSU JT EFTJHOBUFE PO UIF MJDFO
TFSWFS DPNQPOFOUT 5IF CFOFGJUT PG UIJT BSF UIBU JU JT

‡ &BTZ UP USBDL QSPDFTTFT CZ UIF QPSU UIBU UIFZ BSF SVO PO

‡ &BTJFS UP DPOGJHVSF 'MFY&OBCMFE DMJFOUT UP BDDFTT UIF MJDFOTF

‡ &BTJFS UP NBOBHF MJDFOTF TFSWFS DPNQPOFOUT JO BO FOWJSPONFOU
JO VTF

‡ 6TFGVM JO QSFWFOUJOH QPSU DPOGMJDUT BOE UIF IJKBDLJOH PG UIF Q

Configuring a Port Using lmgrd

4QFDJGZ UIF MJDFOTF TFSWFS QPSU

5BTL 5P DPOGJHVSF UIF QPSU VTJOH MNHSE

"EE UIF QPSU OVNCFS UP UIF 4&37&3 MJOF BT JMMVTUSBUFE JO UIF GPM

XIFS

NBDIJOF

6TF UIF MJDFOTF GJMF UIBU DPOUBJOT UIF 4&37&3 MJ

Configuring a Port Using lmadmin

$POGJHVSF UIF MJDFOTF TFSWFS NBOBHFS QPSU FJUIFS

‡ 6TJOH

‡ 6TJOH
$PNNBOE MJOF "SHVNFOUT

9

License Server Manager “lmadmin”

5IF MJDFOTF TFSWFS JT NBOBHFE CZ UIF DPNQPOFOUT UIBU NBLFT VQ B MJDFOTF TF
EBFNPO *U IBOEMFT UIF JOJUJBM DPOUBDU XJUI 'MFY&OBCMFE BQQMJDBU
BQQSPQSJBUF WFOEPS EBFNPO 5IF QVSQPTF PG UIF MJDFOTF TFSWFS NBO

‡ 4UBSU BOE NBJOUBJO WFOEPS EBFNPOT BT SFRVJSFE GPS TFSWJOH MJD

‡ 3FGFS BQQMJDBUJPO DIFDLPVU PS PUIFS SFRVFTUT UP UIF DPSSFDU W

5IFSF BSF UXP WFSTJPOT PG UIF MJDFOTF TFSWFS NBOBHFS

‡ **lmadmin** x 5IF 8FC CBTFE MJDFOTF TFSWFS NBOBHFS

‡ **lmgrd** x 5IF PSJHJOBM MJDFOTF TFSWFS NBOBHFS XJUI B DPNNBOE MJOF JO

5IJT TFDUJPO [illegible] 4FSWFS .BOBHFS |MNHSE}

[illegible] QSPWJEFT JNQSPWFE NFUIPET PG NBOBHJOH UIF MJDFOTF TFSWFS BO
UIF JNQSPWFE DBQBCJMJUJFT GPMMPXT [illegible] MNHSE UP MNBENJO

lmadmin Capabilities

‡ **Direct configuration of the vendor daemons and license server manager** x -JDFOTF TFSWFS QPSU OVN
WFOEPS EBFNPO QBUI BOE QPSU BOE UISFF TFSWFS SFEVOEBOU QPSU
MJDFOTF GJMFT

‡ **Configurable alerts** x :PV DBO [illegible] MJDFOTF FYQJSZ OP BWBJMBCMF MJDFOTFT PS WFOEPS EBFNPO TUBUV

‡ **License rights status display** x 5IF [illegible] MJDFOTF SJHIUT 5IJT EJTQMBZ DBO JODMVEF BMM DPODVSSFOU GMPBU
USVTUFE TUPSBHF *U DBO BMTP JODMVEF BDUJWBUBCMF BOE IZCSJE M
BWBJMBCMF PO UIF MJDFOTF TFSWFS

‡ **Command-line functions accessed by option buttons** x 'PS FYBNQMF **Stop Server** BOE **Reread License Files** CVUUPOT QFSGPSN UIF [illegible] 'PS

MJDFOTF BENJOJTUSBUJPO GVODUJPO

‡ **Minimal editing of license files** x0QUJPO GJMF TQFDJGJDBUJPO SFRVJSFT FEJUJOH

Installing lmadmin

System Requirements for lmadmin

-PH PO UŽP•ƒU‹•FXFC (6* BT BO BENJŽ•JƒT†U‹•SEBUPS BSF JT EJTQMBZFE

5P BEE EPNBJO VTFS **Administration** **Users and Roles** DUB C IFP **User Configuration** UBC BO **New** M5JDFL **Create User** QBHF JT EJTQMBZFE

'P **Role** T F N **Default** **Administrator**

&OUFS UIF VTFS OBNF•JŽ•TU‹•F‡BS SFYBUQ.MF/ =64&3

5IF OFX EPNBJO VTFST DBO **Administration** QBOF UP VTF UIF EPNBJO BDDPVOU

Running the Installer in Console Mode

0O "*9 -JOVY 4PMBSJT PS 8JOEPXT FOBCMFT ZPVŽ•ƒ†•‹•U‹•••–ƒŽŽ‡”‘••‘Ž‡ NFUIPE

6TF UIF GPMMPXJOH DPNNBOE UP SVO UIF JOTUBMMFS JO DPOTPMF NPEF

³Ž•ƒ†•‹•U‹•••–ƒŽŽ‡”‘••‘Ž‡

XIFS³Ž•ƒ†•‹•U‹•••–ƒŽŽ‡”UIF OBNŽ•ƒ†•‹•U‹•••–ƒŽŽ‡”UBMMBUJPO QSPHSBN

5IF DPOTPMF JOTUBMMBUJPO QSPDFTT QSPNQUT ZPV GPS JOGPSNBUJPO O

/PUF8•FO VOJOTŽ•ƒ†•‹•U‹•••–ƒŽŽ‡”JT SFDPNNFOEFE UIBU UIF TBNF NPEF VTFE GPS JO VOJOTUBMMBUJPO 0UIFSXJTF ZPV NJHIU OPU CF QSPNQUFE UP TBWF UIF UIŽ•ƒ†•‹•U‹•••–ƒŽŽ‡”TFSWJDŽ•ƒ†•‹•U‹•••–ƒŽŽ‡”TFSWJDF JT POMZ BWBJMBCMF PO 8JOEPXT QMBUGPSN

License Server Directory Structure

"GUFS JOTUŽ•ƒ†•‹•U‹•••–ƒŽŽ‡”TFSWFS ZPV TFF UIBU GJMFT IBWF CFFO JOTUBM

‡ **Program Files\FlexNet Publisher 64-bit License Server Manager** CŽ•ƒ†•‹•U‹•••–ƒŽŽ‡”PS‘‰”ƒ• ‹Ž‡• •šom€N Ž‡š ‡– —„Ž‹•Š‡” ‹…‡•‡ ‡”˜‡‡C Ž‡•ƒ†•‹•U‹•••–ƒŽŽ‡”‰„À J.4 E@pX Tp `P@ M0 A5 BF@E•OP• UBMMB

%PPEJU UIF DPOUFOUT PG BOZ GJMF PS EJSFDUPSZ XIFSF YQMJ
"EJOJTUSBUJPO DZJFUIFS TVQQMJFE MJDFOTJOH EPDVNFOUBUJPO

Table 9-2 • %JSFDUPSJFT VTFE CZ UIF -JDFOTF 4FSWFS .BOBHFS

Directory	Description of Contents
\demo	$POUBJOT TBNQMF MJDFOTF TFSWFS BOE MPOBUFE JO UIF 0O 8JOEPXT TZTUFNT UIJT GPMEFS JT MPDBUFE JO UIF
\eventlog	&YJTUT PO 8JOEPX TZTUFNT POMZ BOE JODMVEFT UIF GJ TFSWFS UP SFDPSE NFTTBHFT UP UIF 8JOEPXT FWFOU MI 0O 8JOEPXT TZTUFNT UIJT GPMEFS JT MPDBUFE JO UIF
\examples	$POUBJOT DPEF TBNQMFT UIBU TIPX IPX UP CVJME DBQB TFSWJDFT 0O 8JOEPXT TZTUFNT UIJT GPMEFS JT MPDBUFE JO UIF
\uninstall	$POUBJOT UIF GJMFT SFRVJSFE UP VOJOTUBMM 0O 8JOEPXT TZTUFNT UIJT GPMEFS JT MPDBUFE JO UIF
\web	$POUBJOT UIF MJDFOTF TFSWFS NBOBHFNFOU JOUFSGBD 0O 8JOEPXT TZTUFNT UIJT GPMEFS JT MPDBUFE JO UIF
\wsdl	$POUBJOT UIF 84%- GJMF UIBU ZPV DBO VTF UP HFOFSBU TFSWJDFT 0O 8JOEPXT TZTUFNT UIJT GPMEFS JT MPDBUFE JO UIF
\cache	4ZTUFN EJSFDUPSZ UIBU JT DSFBUFE BGUFS ZPV TUBSU MJDFOTF TFSWFS NBOBHFNFOU JOUFSGBDF 0O 8JOEPXT TZTUFNT UIJT GPMEFS JT MPDBUFE JO UIF
\conf	$POUBJOT"\š•ŽOE PUIFS TZTUFN GJMFT UIBU EFGJOF UIF DPOGJHVSBUJPO 0O 8JOEPXT TZTUFNT UIJT GPMEFS JT MPDBUFE JO UIF
\licenses	$POUBJOT UIF MJDFOTF GJMFT TFSWFE CZ 0O 8JOEPXT TZTUFNT UIJT GPMEFS JT MPDBUFE JO UIF
\logs	$POUBJOT UIF BQQMJDBUJPO MPH GJMFT 5IJT EJSFDUPS TFSWFS JT TUBSUFE GPS UIF GJSTU UJNF 0O 8JOEPXT TZTUFNT UIJT GPMEFS JT MPDBUFE JO UIF

Upgrading lmadmin

#FGPSF JOTUBMMJOH

‡ *G ZPV IBWF

‡ 4IVU EPXO

‡ %P OPU SVO CJU

5IF GPMMPXJOH GJMFT BOE

‡ **lmadmin configuration data** x1 FSNBO

/PUF5IF BDUVBM SQBUI VTFE GPS UIF FYBNQMF BCPWF NBZ EFQFOE PO UIF X
IBWF CFFO CVJMU

5BTL 5P VQHSBEF UP B IJHIFS WFSTJPO PG 0QFO44- MJCSBSJFT PO 8JOEPXT Q

"GUFS JOTUBMMJOH MNBEMJO BT B TFSWJDF SFNPWF UIF 0QFO44- MJCSBSJFT
JOTUBMM EJSFDUPSZ XJUI UIF VQEBUFE WFSTJPOT

/PUF5IF QSPWJEFE GPS "*9 QMBUGPSNT EPFT OPU TVQQPSU 0QFO44- EF
MJOLFE BHBJOTU UIF TUBUJD MJCSBSJFT PG 0QFO44-

Uninstalling lmadmin

5IF JOTUBMMFS SFNPWFT BMM FYFDVUBCMFT %-
MJDFOTF GJMFT 8IFO ZPV FYFDVUF UIF VOJOTUBMMFS BDDFQU UIF

8IFO VOJOTUBMM JT SFDPNNFOEFE UIBU UIF TBNF NPEF VTFE GPS JOTUB
VOJOTUBMMBUJPO 0UIFSXJTF ZPV NJHIU OPU CF QSPNQUFE UIF

5BTL 5P VOJOTUBMM MNBENJO VTJOH B VTFS JOUFSGBDF CBTFE QSPDFTT

*O GP MMEfFS JOTUBMMBUJPO NPEF UIF JOTUBMMFS XJMM OPU QSPNQU GPS
mk^„‹– ‹…‡••‡ ‡”˜‡” ƒ•ƒ‰‡”N GPS VTFST UP TQFDJGZ B DVTUPN
—„Ž‹•Š‡” ‹…‡••‡ ‡”˜‡” ƒ•ƒ‰‡”N GPS VTFST UP TQFDJGZ B DVTUPN
‹…‡••‡ ‡”˜‡” ƒ•ƒ‰‡”N GPS VTFST UP TQFDJGZ B DVTUPN

*O UIF **Get User Input** for saving log and server.xml files TFMFDU UIF DIFDL CPY **Yes** XBOU UP TBWF MPH GJMFT BOE **Next** TFMFDU UIF DIFDL CPY **No** MPH GJMFT
TQFDJGZ B DVTUPN MPH GJMF BOE UIFO $MJDL **Next**

*O UIF **Get User Input** TFMFDU **Yes** ZPV XBOU UP TUPQ BOE SFNPWF UIF TFSWJDF

$MJDL **Uninstall**

5BTL 5P VOJOTUBMM MNBENJO JO DPOTPMF NPEF

"U B DPNNBOE QSPNQU UIF[NEF‘‰BJ•MU JT
‹Ž‡•N Ž‡š ‡– —„Ž‹•Š‡” mk^„‹– ‹…‡••‡ ‡”˜‡” ƒ•ƒ‰‡”N GPS VTFST UP TQFDJGZ B DVTUPN

License Server Manager Not Starting

Incorrect Port

5IF MJDFOTF TFSWFS NBOBHFS XJMM OPU TUBSU JG FJUIFS PG UIF GPMMPX

‡ %FGBVMU MJDFOTF TFSWFS QPSU OP QPSUT JO SBOHF UP BWB

‡

Insufficient Privileges (Windows only)

*G UŽ•ƒ†•‹TFSWJDF EPFT OPU TUBSU EVF UP BO |"DDFTT EFOJFE} FSSPS FO

5IFŽ•ƒ†•‹GPMEFST UIBU BSF VQEBUFE EVSJOH SVO‘%‰”JƒN–ƒ—TUP VBMMEX JUOT UBSU

5I

Signing in to lmadmin as an Administrator

5P VTF UIF GPMMPXJOH QBHFT PG UIF MJDFOTF TFSWFS NBOBHFNFOU JOUF

‡ 4ZTUFN *OGPSNBUJPO

‡ 6TFS $POGJHVSBUJPO

‡ "MFSU $POGJHVSBUJPO

‡ 4FSWFS $POGJHVSBUJPO

‡ 7FOEPS %BFNPO $POGJHVSBUJPO

8IFO ZPV GJSTU JOTUBMMFE UIF BENJOJTUSBUPS VTFS OBNF BOE QBTTX
JOGPSNBUJPO XIFO ZPV GJSTU TJHO JO UP UIF JOUFSGBDF BT BO BENJOJT

/PUF* MNBENJO JT SVOOJOH PO B 8JOEPXT NBDIJOF ZPV DBO BMTP TJHO
%JSFDUPSZ VTFS *% TQFDJGJFE BT BO MNBENJO "ENJOJTUSBUPS FJUIFS E

Tab6 **3**

FLEXnet_Publisher_License_Server_Manager_Install_..@EE@ZZZZ@IlogNNN@FTXFWFSŽ•ƒ†•‹JOTUBMMFS NJHIU DSFBUF JU VOEFS B E

" MPH SFDPSEJOHŽF‰WtF‹GIOTUPBGMMIBFUJPO 5IJT GJMF JT V
JO U‡F‹••–ƒŽŽNE‘‰SFDUPSZ MPDBUFE VOEFS UIF JOTUBMM
MPDBUJPO *G OFDFTTBSZ DPOUBDU UIF QVCMJTIFS G
MPDBUJPO

/PUF1SJPS UP MNBENJO UIF JOTUBMMBUJPO MPH
VOEFS UIF JOTUBMMBUJPO SPPU EJSFDUPSZ

Managing lmadmin from the Command Line

5IJT TFDUJPO EFTDSJCFT TPNF PG UIF DPNNPO UBŽ‹ƒ†•‹UDBMNDBBOE OVFJ QIF SBGOPES
UIF DPNNBOE MJOF BSHVNFOUT

Adding a Vendor Daemon to lmadmin

5IFŽ•ƒ†•‹MJDFOTF TFSWFS NVTU CF DPOGJHVSFE XJUI EBUB BCPVU WFOEPS
EBFNPO ZPV NVTU JNQPSU JU VTJOH B MJDFOTF GJMF :PV Ž•ƒ†•‹EVPTFUSJT GS
JOUFSGBDF

/PUF'MFY/FU 1VCMJTIFS QSPWJEFT B †‡B‘NPS‡•ƒ\‡WFUOEBEPSZ E‡FDNBPD VTF XJUI MNE
VTF UIJT WFOEPS EBFNPO GJSTU DPQZ JU ³BŽƒE–^J‘U†BETJTSFDJUBRUSFZE UMPJCUSB SZ
³’Žƒ–^‘”•O†‹”´NŽ•ƒ†•‹•N†‡•‘ †‹”5I.F–B‘TTPDJBUFE MJCSBSZ J‡T•‘PŽF„ PGGUPSF 6GP9MMPX
†‡•‘OŽ‹„ \†ŽŽPS 8JOE‡P‘XOT•‡”˜‡”OŽ‹„ O•‘GPS\‘ "*9•‘PŽ‹„ \†›ŽGP S .BD 5IFO JTTV
UIF DPNNBOE EFTDSJCFE JO UIF GPMMPXJOH QSPDFEVSF JNQPSU UIF WFO
Ž•ƒ†•‹•N†‡•‘N†‡•‘\Ž‹…

5BTL 5P BEE B WFOEPS EBFNPO GSPN UIF DPNNBOE MJOF

$SFBUF PS MPDBUF B WBMJE •MŽIDF‡O•T‡F\ŽŽXJMF UGFPSBQFQYSBNQSVFBUF 4&37&3 M
MJOFT BOE GFBUVSF EFGJOJUJPO MJOFT

.BLF TVSF UIBU UIF WFOEPS EBFNPO FYFDVUBCMFŽ•ƒ†•JG5IJTF MDPDSBUFDRUOMJ
EFGJOFE JO UIF 7&/%03 MJOF

*NQPSU UIF MJDFOTF GJMF CZ FYFDVUJOH UIF GPMMPXJOH DPNNBOE

Ž•ƒ†•‹• ^…‘•^‹‰ ‹” ³…‘•^O’ƒ–Š´ ^‹•’‘”– ³•›Ž‹…‡••\Ž‹…´

XIFS¹F›Ž‹…‡••\ŽJT..⁹UIF QBUI BOE OBNF PG ¹U.IF•^M’JƒD–ŠŠT TUFGQMBE.I‘BTE EUIF
GPMEFS 5IJT DPNNBOE JNQPSUT UIF MJDFOTF GJMF CVU EPFT OPU TUB

8IFO ZPV JNQPSU B MJDFOTF GJMF UIF MJDFOTF TFSWFS DPOGJHVSBUJ
QPQVMBUFE XJUI UIF WFOEPS EBFNPO JOGPSNBUJPO WFOEPS OBNF WF

4UBSU UIF MJDFOTF TFSWFS 4FF .BOVBMMZ 4UBSUJOH UIF -JDFOTF 4FS

/PUF'PS JOGPSNBUJPO BCPVU IPX UP JNQPSU B MJDFOTF GJMF VTJOH UIF M
0OMJOF IFMQ BWBJMBCMF GSPN XJUIJO UIF MJDFOTF TFSWFS NBOBHFNFOU

/PUF5IF GPMMPXJOH CFIBWJPSBM NPEJGJDBUJPOT UP MNBENJO BT QBSU PO

- 5IF WFOEPS EBFNPO FYFDVUBCMF XIJDI OFFET UP CF TUBSUFE CZ MNBE MNBENJO SPPU EJSFDUPSZ PS JUT DIJME EJSFDUPSJFT
- 3FNPUF TJUFT JODMVEJOH 8JOEPXT OFUXPSL TIBSF QBUIT BSF OPU QF
- *G B WFOEPS EBFNPO MPDBUJPO PUIFS UIBO POFT QFSNJUUFE CZ EFGB DBO VTF UIF OF^XM4ƒBEŠFBŠNNBOE MJOF PQUJPO PG MNBENJO UP TQFDJ SFRVJSFE WFOEPS EBFNPO MPDBUJPO 5IJT XJMM SFTVMU JO UIF TQFDJ QBUI

Configuring the License File Upload Directory

5IF MJDFOTF GJMF VQMPBE EJSFDUPSZ JT UIF MPDBUJPO XIFSF MJDFOTF GJMFT BSF JnpqrLicense CVTUPNFE VendorDaemon Configuration UBC PS UIF -‹•’‘”–DPNNBOE MJOF BSHVNFOU

8IFO UIJT MPDBUJPO JT OPU DPOGJHVSFE UIF EFGBVMU TFUUJOHT DSFBUF MJDFOTF GJMFT BSF VQMPBEFE

\\\N³Ž•ƒ†•‹•O”—•–‹•‡†ƒ–ƒO†‹”´NŽ‹…‡••‡•N³˜‡•†‘” †ƒ‡•‘• •ƒ•‡´N

'PS FYBNQMF PO 8JOEPXT XJUI UBMMFE JO UIF EFGBVMU MPDBUJPO BOE UX '—„Ž‹•Š‡”BSF CFJOH NBOBHFE CZ GPMMPXJOH EJSFDUPSJFT BSF DSFBUFE XIF WFOEPS EBFNPOT BSF JNQPSUFE

[N ”‘‰”ƒ• ƒ–ƒN Ž•NŽ•ƒ†•‹•NŽ‹…‡••‡•N†‡•‘

[N ”‘‰”ƒ• ƒ–ƒN Ž•NŽ•ƒ†•‹•NŽ‹…‡••‡•N’—„Ž‹•Š‡”

5IF MJDFOTF GJMF UIBU DPOUBJOT MJDFOTF GJMFT BSF JNQPSUFE GPS FJUIFS MJDFOTF GJMF UIBU DPOUBJOT MJDFOTF GJMFT BSF JNQPSUFE GPS FJUIFS EJSFDUPSZ 8IFO BEEJUJPOBM MJDFOTF GJMFT BSF JNQPSUFE GPS FJUIFS BQQSPQSJBUF WFOEPS EBFNPO TQFDJGJD EJSFDUPSZ

:PV DBO SFQMBDF UIJT EFGBVMU DPOGJHVSBUJPO BT EFTDSJCFE JO UIF GP VQMPBE EJSFDUPSZ JTŽ•ƒ†•‹•GJ…ƒ–‹‘•UIBMXMFOE GPS UIF GJSTU UJNF BOE UIFO C MJDFOTF GJMFT PODF JNQŽ•Ş†•ƒ†•‹•BOEBSUFBWBJMBCMFBUNPST JU NBOBHFT

5BTL 5P DPOGJHVSF UIF MJDFOTF GJMF VQMPBE EJSFDUPSZ

*Ž•ƒ†•‹JT SVOOJOH TIVUJBUEZXQUPQQJOH UIF -JDFOTF 4FSWFS .BOBHFS

'SPN UIF DPNNBOE MJŽ•ƒ†•‹DPNWUBFOBOVT^J–O'Ž‘ƒU†IB”SHVNFOU

5IF VQMPBE EJSFDUPSZ DBO CF TQFDJGJFE FJUIFS BT B SFMBUJWF PS B SFMBUJWF UP UIF DVSSFOU EJSFDUPS˜ZDBEEUFJVPTOBEMMZ BOTDQMFVDEJFBMUIFUWSE OBNF JO UIF EJSFDUPSZ QBUI 5IVT UIF GPMMPXJOH FYBNQMF TQFDJGJF [N ”‘‰”ƒ• ƒ–ƒN Ž•NŽ•ƒ†•‹•N³˜‡•†‘”´NŽ‹…‡••‡•

Ž•ƒ†•‹• ^…‘•^‹‰ ‹” [N ”‘‰”ƒ• ƒ–ƒN Ž•NŽ•ƒ†•‹•N…‘•^ ^—’Ž‘ƒ† ‹” [N ”‘‰”ƒ• ƒ–ƒN Ž•NŽ•ƒ†•‹•N©˜NŽ‹…‡••‡•

Configuring lmadmin License Server Manager as a Windows Service with a Three-Server Configuration

$POGJHVSF BOE NBJOUBJO B TFU PG UISFF MJDFOTF TFSWFS TZTUFNT TQF QSPWJEFT GBJM PWFS QSPUFDUJPO POMZ :PV NBOBHF POMZ POF WFSTJPO MJDFOTF TFSWFST 5IJT DPOGJHVSBUJPO PQUJPO JT POMZ BWBJMBCMF XIF TFSWFS SFEVOEBODZ DBQBCJMJUZ JO 'MFY/FU 1VCMJTIFS BMM UISFF MJDF

‡ ³Ž•ƒ†•‹•O‹•••–ƒŽŽO†‹”´u‡šƒ•'Ž‡•u•›••–‡•†uŽ‹GƒP‡S‹•V•T‡F˜P.O‡ QMBUGPSNT VTJOH UIF TFSWJDF TUBSUVQ

%P OPU DPCŽ‹GƒV†FGUIMF XJUI UIF FYFDVUBCMF GPS UIF MJDFOTF TFSWFS NB

"EEJUJPOBMMZ TFF 3VOOJOH 'MFY/FU 1VCMJTIFS -JDFOTF 4FSWFS GPS B 4Z JOTUSVDUJPOT PO NPEJGZJOH UIŽ•ƒF•R•VZTUFENTDFSSVQUDFPXSVOQUFD FMFWBUF

/PUF5‡F JOTUSVDUJPOT JO UIFTF TBNQMF TDSJQUT TIPVME XPSL PO PUIFS NJOPS DIBOHFT

OS X Systems

0O 04 9 4ZTUFNT BENJOJTUSBUPST IBWF UP DSFBUF UIFJS„'fX‹U TUBSUVQ T –ƒ”––’ –‡••uŽ•ƒ5‡F• JOT‹ŽBMM‹F‹•••–ƒŽŽO†‹”´u‡šƒ•'Ž‡•DS‡J”Q‹U..‡T UIF TBNF TDSJQU JOTUBMMFE GPS -JOVY BOE 4PMBSJT TZTUFNT 'PS NPSF JOGPSNBUJPO PO JOTUBMMJOH BO FYFDVUBCMF GJMF E FMFWBUFE QSJWJMFHFT PO 04 9 TZTUFNT TFF BOZ PG UIF NBOZ QVCMJDM XXX PSFJMMZ DPN QVC B NBD TUBSUVQ IUNM

/PUF3‡FWFOFSB JT OPU SFTQPOTJCMF GPS UIF BDDVSBDZ PG JOGPSNBUJPO UIF SFTVMUS PG UIF TUBSUVQ TDSJQU UIBU ZPV XSJUF

Running FlexNet Publisher License Server as a System Service With Non-Elevated Privileges

Ž•ƒ†•‹•ÐBO CF DPOGJHVSFE UP SVO‘B.T‡ŽB‡TT‹B.WJDF•VO E‡HS TUBEDDPVOU JT CPU BOE TVGGJDJFOU GPS SVOOJOH UIF TFSWJDF 5IF WFOEPS EBFNPO JOIFSJ UIBU BOZ TFDVSJUZ WVMOFSBCJMJUJFT FYQMPJUFE CZ NBMJDJPVT VTFST X NJOJNBM JNQBDU CFZPOE UIF MJDFOTJOH TFSWJDFT

5IF JOTUSVDUJPOT CFMPX BSF FŽ•‡N•QMFTS‹EFSOHBZTUJONH TUHSWJDF UP SVO OPO BENJOJTUSBUPS VTFS BDDPVOU 5IF JŽ•ƒ‹S‹•VBMUSJFBOEZ BTTVNBM MFBU ZPV

Procedure Overview

.BOBHJOH UIF MJDFOTF TFSWFS BT B TZTUFN TFSWJDF UZQJDBMMZ SFRVJS

‡ **Phase 1** x*OTUBMM UIF MJDFOTF TFSWFS BT B TZTUFN TFSWJDF 5IJT TUFQ UIF QSFWJPVT TFDUJPO *OTUBMMJOH MNBENJO -JDFOTF 4FSWFS .BOBH

‡ **Phase 2** x*EFOUJGZ PS DSFBUF B VTFS BDDPVOU XJUI OPO FMFWBUFE QSJW FJUIFS B EPNBJO BDDPVOU PS B MPDBM BDDPVOU UIBU JT EFEJDBUFE UIF JOTUSVDUJPOT UIBU GPMMPX UIJT 4VTFSWJDF6TVSBUDTFSVBDDPVOU 4FSWJDF 6TFS BDDPVOU IBT TVGGJDJFOU QFSNJTTJPOT UP SFBE UIF MJ EFTJHOBUFE GPMEFST

‡ **Phase 3** x$POGJHVSF UIF JOTUBMMFE MJDFOTF TFSWFS TZTUFN TFSWJDF UP SFRVJSFT FMFWBUFE QSJWJMFHFT BT XFMM

5BTL 5P DPOGJHVSF UIF MNBENJO TZTUFN TFSWJDF UP SVO XJUI OPO FMFWBU
TZTUFNE TUBSUVQ TDSJQU

$PQZ UIF TBNQMF‡ƒ†D•S•J‹Q‡U˜‹GLJPMUF‡F…u•›••–‡•†u•E•J–S‡F DUPSZ

*NQPSUBOUDODUF•UIF TDSJQU JT DPQJFE NBLF TVSF JU IBT FYFDVUJPO QSJW

.PEJGZ UIF GPMMPXJOH MJOF JØ•ƒU‡•‹QTBDUSJQU UP JEFOUJGZ UIF

•˜‹”‘••‡•–°Q‹••–ƒŽŽ ‹”°u‘’–u Ž•uŽ•ƒ†•‹•Q

XIFSF U•Ÿ•F–ƒŽŽ ‹WBMVF JT UIF EJSFDUPSZ•ƒM‡P‹DB O BFSO XTFJSOFTUIBFMMFE

.PEJGZ UIF GPMMPXJOH MJOF JO UIF TDSJQUŽ•Uƒ‡P•J•EZFTOUFJNG ZFUSIWJVDTHF SXJVOM

•‡”°Ž•ƒ†•‹•

XIFSF ŽØ•ƒF†•‹•WBMVF JT UIF OBNF PG UIF 4FSWJDF 6TFS BDDPVOU XJUI UIF

.PEJGZ UIF GPMMPXJOH MJOF JO UIF TDSJQU ŽU•P†JSEHTFZOTUJFNZ TUFISFWHJSIPF VXQJM

”‘—’°Ž•ƒ†•‹•

XIFSF ŽØ•ƒF†•‹•WBMVF JT UIF OBNF PG UIF HSPVQ XJUI UIF OPO FMFWBUFE

.PEJGZ UIF GPMMPXJOH MJOF JO UIF TDSJQU UP JEFOUJGZ UIF BCTPMVU

š‡… –ƒ”–°u‘’–u Ž•uŽ•ƒ†•‹•uŽ•ƒ†•‹•• ^”‘’– [‡‹••–ƒŽŽ ‹”^

4 B WMFJ MJ JFM JDMBD H.BUC MF “dUMFŽ•TtJ $ ”J–Q Ms” AIF TAE MJMJt^

@

@ @

M M Mð@ M eB J @ M 9@ €

lmadmin Command-line Arguments

5IJT TFDUJPO EFTDSJCFT JŽ•ƒ†•‹• ƒ^˜‡”•‹‘•„
XJMM SFNBJO TFU VOUJM UIFZ BSF SFTFU

Usage

Ž•ƒ†•‹• ƒ^˜‡”•‹‘•„

ƒ^…‘•^‹‰ ³…‘•^‹‰ ‹Ž‡´„

ƒ^…‘•^‹‰ ‹” ³…‘•^‹‰ ‹Ž‡ ‹”‡…–‘”›´„

ƒ^…ƒ…Š‡ ‹” ³…ƒ…Š‡ ‹”‡…–‘”›´„

ƒ^†‡^ƒ—Ž– †•‹• •‡” ³†‘•ƒ‹•N—•PO 8JOEPXT BOE -JOVY

ƒ^†‡^ƒ—Ž– †•‹• ”‘—’ ³†‘•ƒ‹•N—•PO 8JOEPXT

ƒ^Ž†ƒ’ ‘•– ³ …–‹˜‡ ‹”‡…–‘”› ‡”˜‡P O•M Z„ PO -JOVY

ƒ^Ž†ƒ’ ‘”– ³ …–‹˜‡ ‹”‡…–‘”› ‡”˜‡P O”M Z„ PO -JOVY

ƒ^Ž†ƒ’ •‡” ³†‘•ƒ‹•N—•P O„ MZ PO -JOVY

ƒ^Ž†ƒ’ ƒ••™‘”† ³Ž†ƒ’ •‡” ƒ••P O”M Z„ PO -JOVY

ƒ^Ž†ƒ’ ƒ•‡ ³ …–‹˜‡ ‹”‡…–‘”› ‡”˜‡”P ƒO M Z„PO -JOVY

ƒ^”‘–³Ž•ƒ†•‹•O‹••–ƒŽŽO†‹”´„ ƒ^‹•’‘”–³Ž‹…‡••‡ ‹Ž‡ ‹•–´„

ƒ^‹•’‘”–••–ƒŽŽƒ–‹• ³‘Ž† ••–ƒŽŽ ‹”‡…–‘”›´ƒ^…‘•^‹‰ ³…‘•^‹‰ ‹Ž‡ ‘” •’‘”–´„ ƒ^…‘•^‹‰ ‹” ³…‘•^‹‰ ‹” ‘” •’‘”–´„„

ƒ^Ž‹… ‘”– ³Ž‹…‡••‡ ‡”˜‡” ‘”–´„

ƒ^™‡„ ‡…—”‡ ‘”– ³Š––’• ‘”–´„

ƒ^ƒŽŽ‘™ –‘’ ‡”˜‡” ³›‡•v•‘´„

ƒ^ƒŽŽ‘™ ‡•‘–‡ –‘’ ‡”˜‡” ³›‡•v•‘´„

ƒ^ƒŽŽ‘™ ‹…‡••‡ ‡…Žƒ‹• ³›‡•v•‘´„

ƒ^™‡„ ‘”– ³Š––’ ‘”–´„

ƒ^…ƒ…Š‡ ‹•‡‘—– ³–‹•‡‘—––´„

ƒ^”‡•–ƒ”–”‡‹‹– ‡–”‡›…‘—•–´„

ƒ^ƒŽ‡‡”– ‹•‡‘—• ³–‹•‡‘—•–´„

ƒ^ˆ‘”‡%”‘—•†„ ƒ^ƒ†•‹• •Ž› ³›‡•v•‘´„

ƒ^•‘ ‡„„ƒ—Ž ‘˜´„

ƒ^³—•‡”‹†´ ^ ƒ•• ³’ƒ••™‘”†´ ^ ‘Ž‡ ³”‘Ž‡ ›’‡´ ƒ^ ‹”•–-ƒƒ‡–³•ƒƒ•‡‡³„ƒƒ•‡´„ƒ^‘ˆˆŽ‹•‡—’†ƒ–‡ ³hu
e´„„

ƒ^³—•‡”‹†´ ƒ^ ƒ•• ³’ƒ••™‘”†´„ ƒ^ ‘Ž‡ ³”‘Ž‡O–›’‡´„ ƒ^ ‹”•–ƒƒ•‡ƒ•‡ƒ„ƒ„ƒ^‘ˆˆŽ‹•‡—’†ƒ–‡
³hue´„„

ƒ^—•‡”†‡Ž ³—•‡”‹†´ ƒ^ˆ‘”‡‰”‘—•†„ ƒ^ƒ†•‹• •Ž› ³›‡•v•‘´„ ƒ^Ž‘‰ ‹” ³Ž‘‰ ‹”‡…–‘”›´„ƒ^‘ˆˆŽ‹

ƒ^˜† ‡ƒ”…Š ƒ–Š• ³˜‡•†‘” ƒ‡•‘• ‹•ƒ”› ‡ƒ”…Š ƒ–Š• ‹•–´

Table 9-5 • Ž•ƒ†‹•‹$PNNBOE MJOF "SHVNFOUT

Argument Syntax	Description	Function
BEE%FQFOEFODZ'/-4	%FGBVMU	%BPQQMUJDBEECEMF POMZ GPS 8JOEPXT
	EFQFOEFODZ PO 'MFY/FU -JDFOTJOH 4FSWJDF	$BO CF VTFE XJUI UIF JOTUBMM4FSWJDF PQ BEEJUJPO PG B EFQFOEFODZ PO 'MFY/FU -JD
	1FSTJTUFOU / "	CJU PS CJU EFQFOEJOH PO UIF MNBENJO
	4FU GSPN 6* /P	GPS MNBENJO TFSWJDF 5IF EFGBVMU JT OPU UP IBWF UIJT EFQFOEF
^ƒ†‹•‹• •Ž› ³›‡•v•‘´	%FGBVMUx:FT	3FTUSJDUŽ•†‘”‡•”‘G ƒ†BOŽE”‡•‘˜‡BT XFMM
	1FSTJTUFOU x:FT	BTŽ••™‹–Ž•Š™‹–…BOŽE•‡™Ž‘‰G ZP^V TFU
	4FU GSPN 6*x/P	ƒ†•‹• •Ž› •‘DPNNBOE MJOF BDDFTT UP UIFTF V VQSFTUSJDUFE "DDFTT UR Š•EM B6*E ETGFBUV HPWFSOFE TFQŽB‚S‡B UFMHZJOZDSFEFOUJBMT ¥Z*E@FFGB•/M‹SFTUSJDUT DPNNBOE MJOF BDD VUJMJUJFT 5IF EFGƒ†V‹MŽBS‡PWMFSSJEFT PUIFS

Table 9-5 • Ž•ƒ†•‹$PNNBOE MJOF "SHVNFOUT

Argument Syntax	Description	Function
^ƒŽŽ‘™ ‹…‡••‡ ‡…Žƒ‹%FGBVMU x/P ³›‡•v•‘´ 1FSTJTUFOUx:FT 4FU GSPN 6*x/P		$POUSPMT UIF MQIFSNUPWF PG -JDFOTF 'JMF -JDFOTJOH ›‡•GMTJFDUFOTFT DBO CF SFDMBJNF VTFS *G‘TFMJDUFOTFT DBOOPU CF SFDMBJNFE /PUF3FTUSJDUJPOTƒ†G‹SP›Ž UBFSHVNFOU NBZ QSFWFOU MJDFOTF SFDMBNBUJPO FWFO JG -ƒŽŽ‘™ ‹…‡••‡ ‡…Žƒ‹• ›‡•
^ƒŽŽ‘™ –‘’ ‡”˜‡” ³›‡•v•‘´ %FGBVMUWBMVF 1FSTJTUFOU x:FT 4FU GSPN 6* x/P		$POGJHVSFT IPX UIF MJDFOTF TFSWFS DBO *G TF›Ù•UPPDBM DMJFOUT DBO TUPQ UIF MJD FJUIFSEPXS UIF 4UPQ 4FSWFS CVUUPO JO U /PUF3FTUSJDUJPOTƒ†G‹SP›Ž UBFSHVNFOU NBZ QSPIJCJU TUPQQJOH UIF TFSWFS GSPN UIF ZPV TFŽŽ‘™ –‘’ ‡”˜‡” ›‡• *G TF•U UPFO UIF MJDFOTF TFSWFS NVTU CF TUPQQJOH UIF QSPDFTTWBMMZ4FUPQQJOH UIF -J 4FSWFS .BOBHFS /PUF4FUUJƒŽŽ‘™ –‘’ ‡”˜‡’BMTP TFUT -ƒŽŽ‘™ ‡•‘–‡ –‘’ ‡U”‡”
^ƒŽŽ‘™ ‡•‘–‡ –‘’ ‡”˜‡”%FGBVMUWBMVF ³›‡•v•‘´ 1FSTJTUFOUx:FT 4FU GSPN 6*x/P		$POGJHVSFT XIFUIFS UIF MJDFOTF TFSWFS D B SFNPUF MPDBUJPO *G TF›Ù•UPIFO ZPV DBO TUPQ UIF MJDFOTF TF SFNPUF MPDBUJPO BOE MPDBM DMJFOUT DB VTJOH FMUIEPXS **Stop Server** CVUUPO JO UIF 6* /PUF3FTUSJDUJPOTƒ†G‹SP›Ž UBFSHVNFOU NBZ QSPIJCJU SFNPUFMZ TUPQQJOH UIF TFSWFS MJOF FWFO-ƒŽŽZTP‘V‡•TF‡U–‘’ ‡”˜‡” ›‡• *G TF•U UPFO JU NVTU CF TUPQQFE GSPN B M 0OMJOF IFMQ GPS GVSUIFS EFUBJMT /PUF4FUUJƒŽŽ‘™ ‡•‘–‡ –‘’ ‡”˜‡XI›F‡O -ƒŽŽ‘™ –‘’ ‡”J‡” OPU EFGJ-ƒŽŽ‘™G‘SD‡FUP CF TF‡U•UP

^ … ‘ • ˆ.‹ ‰ ˆ ‹ ‰ % F G B V M U X \ š • Ž % F G J O F T U I F O B N F P G U I F M J D F O T F T F S W F S

%.F‘ q.N ‰ ‹ ŽŽ‡ \ • 6b b % F G B V M U X T X A ´r7 @W3_èp ” ‘ ‡ ” ‘ • ” & t7'f ‘–” ” …!ƒrvb ‡ ‘–” •U‘ ‡ ”” ` A Y3 K@ ypX ‰ 7&f ‘ … ‹ Ž ‡

1 F S T J T U F O U X : F T

4 F U G S P N 6 * x / P

% V M U D N c G # S ` 0 Ž ‘ ” ‘ ‡ B Y ” ³ • ‘ – O p Q R U “ n a • ” O 6 ‰ B ò R p Y ˆ • ‘ @ 6b bÐ P F F J à !&&F ) „ ” S ” 0F q 0 F F J €: 4! F `S ‘@P @

^†‡ˆƒ—Ž– †•‹• ”‘—’ %FGBVMUx/ " BQQMJDBCMF POMZ GPS 8JOEPXT
³†‘•ƒ‹•N‰”‘—’•ƒ‡´
@ OG´AP HUZEPI@POpv T Ž‹“FGSTNJTUFOUx:FT "EET UIF TQFDJGJFE 8JOEPXT "DUJWF %JB
4FU GSPN 6*x:FT

^‹•’‘”–
³Ž‹…‡••‡ ‹Ž‡ ‹•–´

%FGBVMUx/ "

1FSTJTUFOUx/ "

4FU GSPN Import License
CVUUPO

6QEBUFT UIF MJDFOTF TFSWFS DPOGJHVSBU
JOGPSNBUJPO FYUSBDUFE GSPN UIF TQFDJG
MJDFOTF@GPJMF@VMJT PG UIF GPSNBU PG
³Ž‹…‡••‡ ‹Ž‡ ‹•5HJT PQUJPO EŽ‡Ž‡‹•UFTUBSU
POMZ BSHVNFOUT UIBU DBO CF BSSPNCJOFE X
-…‘•^‹‰

^³—•‡”‹†´ ^ ƒ•• ³’ƒ••™ 1”ŒŠ STJTUFOUx:FT
^ ‘Ž‡ ³”‘Ž‡ ›’‡´ ƒ^
‹”•– ƒ•‡ ³•ƒ•‡´„ 4FU GSPN 6*x:FT
ƒ ƒ•– ƒ•‡ ³•ƒ•‡´„

"EET B ŽƒƒX••‹ VTFS JOUFSGBDF VTFS 1SPWJE
GPMMPXJOH QBSBNFUFST

‡ ^³—•‡”‹1´SPWJEF FJUIFS WBMVF

'PS B MPDBMMZ NBOBHFE BDDPVOU UIBU
NBOBHFŽ•ƒCŽ‹•• B VTFS EFGJOFE TJHO JO *
DIBSBDUFST 5IF WBMVF JT DBTF TFOT
JODMVEF TQBDFT CVU OP CBDLTMBTI Gƒ

&OUFS UIF GPMMPXJOH DPNNBOE UP WJFX B MJTU PG BWBJMBCMF BSHV

Ž•ƒ†•‹• ^Š‡Ž'

5IF IFMQ EFTDSJQUJPOT JEFOUJGZ UIF EFGBVMQFSSTHJTNFOUT BSHEVXIFJOU
XJMM SFNBJO JO FGGFDUŽ•ƒ†•‹•MBUFS JOTUBODFT PG

Extending lmadmin License Server Capability

Ž•ƒ†•‹•DBO CF DVTUPNJ[FE 5IFTF DVTUPNJ[BUJPOT ŽS•ƒ†•‹•JOJ
JODMVEFT TPNF FYBNQMF BQQMJDBUJPOT BOE GJMFT UIBU EFNPOTUSBUF

Using the lmadmin Web Service Interface

Ž•ƒ†•‹•QSPWJEFT B 8FC TFSWJDF JOUFSGBDF UIBU FYQPTFT DFSUBJO "1*T U
5IFTF TFSWJDFT FOBCMF ZPV UP FYUFOE UIF DPSF MJDFOTF TFSWFS DBQB
DMJFOU QSPYZ DBO³ŽG•ƒ†•‹•PVEUJDF•U1IH•bv†UGU$‰•UEŽbvQ BU àCZ

10

License Server Manager “lmgrd”

5IF MJDFOTF TFSWFS NBOBHFS

Usage

-local

0O 6/*9 TZT^UZF.N/SZF TUSJUT™BIGE•”‡”‡ƒDPNNBOET UP CF SVO F
GSPN UIF TBNF TZST•‰F”NTXSVFO JOH

0O 8JOEPXT TZ^TZU.F/NZT VTGE POŽJU‹ŽBXOE WBSJBUJPOT DBO
CZ BOZ -PDBM 6TFS BT MPOŽ•B‹GZSF XBSF TBNOFOJOTHU BT UI
MJDFOTF TŽF•‰WFSTUGSU^E’X^ZU.I.ŽŽ‰”BOE UIF WFOEPS EBFNI
DBO POMZ JOUFSBDU XJUI UIFŽD”N‡MŽB•O‡™ŽZ‰ƒ™VUJMJUJFT
Ž•”‡•‘˜‡BOŽE•™‹–..JSG UIFTF BSF MPDBUFE PO UIF TBNF NBDIJC
XJUI -0$"-4:45&. QSPWJMFHFT

"MM QMBUGPSNT *O UIF DBTF PG B UISFF TFSWFS TFUVQ
UP CF MPDBM

-x lmdown

%JTBCMŽ•T‘UDPNNBOE OP VTŽ•S‘DBŽGSVOT EJTBCMFE TUPC
Ž•‰”VTJ•QŽŽ ’‹†6/*9 PS TŽ•P‰”BUE WFOEPS EBFNPO QSPDFTT
UISPVHI UIF 8JOEPXT 5BTL .BOBHFS PS 8JOEPXT TFSWJDF

0O 6/*9 CF T•VŽSZDPNNBOE EPFT OPBUSHBWNFOBU

-x lmremove

%JTBCMŽ•T”‡U‘ĨDPNNBOE OP VTŽ•S‡DB‡O SVO

-z

3VOT JO GPSFHSPVOE 5IF EFGBVMU CFIBWJPS JT UP SVO

*GO †‡„—‰OŽ‘‰JT’ƒQSFTFOU UIFO OP XJOEPXTBSSHVNFE CV
TQFDJGJFE TFQBSBUF XJŽG‰PBXTEBSSHFDVTWFEOEPSS EBFNPO

-v

%JTQMBŽ•T‰UWFSTJPO OVNCFS BOE DPQZSJHIU BOE FYJUT

-d

04 9 NBD04 POMŽZ‰”BLFT

*NQPSUBOU BE•EJUJPO FOTVSF UIBU UIF IUUQ IUUQT QPSUT BOE UIF MJDFOT
WFOEPS EBFNPO QPSUT BSF PQFOFE PO UIF GJSFXBMM TP UIBU SFNPUF D
DMJFOUT CSPXTFST DBO DPOOFDU UP UIF MNHSE

Manual Start

5BTL 5P TUBSU MNHSE GSPN UIF DPNNBOE MJOF

4UBŽS‰”6SPN UIF 6/*9 DPNNBOE MJOF VTJOH UIF GPMMPXJOH TZOUBY

Ž•‰”† Ž‹…. ‡••‡U^‹Ž˜°O6/%aXex- àGÄO BÞ T@UBSU

5BTL 5P DPOGJHVSF UIF GJMF EFTDSJQUPS VMJNJU GPS UIF MJDFOTF TFSWFS TDSJQU

.PEJGZ UIF GPMMPXJOH MJOF JO‘‘Ž•‹–O TDSJQU UP JEFOUJGZ UIF

‘‘Ž•‹–O °³u‘‘–u Ž•uŽ•‰”†OŽ‹…OŽ‘‰O ƒ–Š´

XIFSF U1Ž•‹–O ƒ–ŠBMVF JT UIF EJSFDUPSZ MPDBUJPO XIFSF UIF MJDFOTF †‡„—‰\Ž‘JMM CF DSFBUFE BU UIF TBNF MPDBUJPO BT UIF MJDFOTF GJMF

4BWF UIF DIBOHFT JO UIF TDSJQU

Configure demo.service

$POGJH‡V•S\F‡”˜‹…MPDB‘’ŽŒ–J‘•O†‹”BT SFRVJSFE GPS ZPVS TZTUFN

5B T4lB@ p @ PF DDPHS GFJH&V 5 D SLDJF QHHW G EV Zp•U ƒ•N TFSWJDF U NT HÀ PÀ P…t@EÀ G@ àF . @ FEp`

*U JT CFTU QSBDUJDF UP TUPQ BOZ MJDFOTF TFSWFS CFGPSF SUBSUJOH JT MPDBUJPO IBT W
XSJUF QFSNJTTJPO CZ EFGBVMU XIJDI JT OFFEFE XIFO UIF MJDFOTF TF
QFSNJTTJPO *G ZPV TQFDJGZ B EJGGFSFOU MPDBUJPO NBLF TVSF ZPV
BDDFTTFE UIF MJDFOTF GJMF

5P TBWF UIF DEMO License Manager TFSWJDF DMJDL **Save Service**

Figure 10-1: $PNQMFUFE $POGJH 4FSWJDFT 5BC

Configuring the License Server Manager

Manager

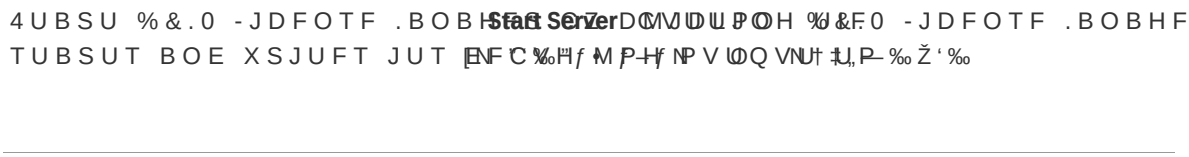

Figure 10-2: 4FSWJDF -JDFOTF 'JMF 5BC

$MJDL UIF **Start/Stop/Reread** UBC

4UBSU %&.0 -JDFOTF .BOBHFS MJDF
TUBSUT BOE XSJUFT JUT

/PUF 5IF |4UPQ 4FSWFS} CVUUPO JT EJTBCMFE XIFO UIF PQUJPO |%JTBCM

5BTL 5P DPOGJHVSF MNHSE BT B TFSWJDF

8JUŽ•–‘‘Ž•TUBSUFE BOE UIF EFTJSFE TFSWJDF OBNF TUFMCDUFE DMJDL UI

Figure 10-3: $POGJH 4FSWJDFT 5BC

.BLF UIJT MJDFOTF TFSWFS NBOBHFS B 8JOEPXT **Use Services** TFMFDUJO

$POGJHVSF JU UP TUBSU BU TZTUFN **Start Server at Power Up** UIF

/PUF0O 8JOEPXT QMBUGPSNT JU JT CFTU Y`WUU

4FMFDU UIF TFSWJDF OBNF GSPN UIF MJTU QSFTFOUFE JO UIF TFMFDUJ
DEMO License Manager

Figure 10-4: 4FSWJDF -JDFOTF 'JMF 5BC

$MJDL UIF **Start/Stop/Reread** UBC

4UBSU %&.0 -JDFOTF .BOBHFS MJDF
TUBSUT BOE XSJUFT JUT..E[NC”V‰d”ƒM•Pƒ‡H–ƒPNV UQ V UN ‡U‡P„—‰Ž‘‰

/PUF 5IF |4UPQ 4FSWFS} CVUUPO JT EJTBCMFE XIFO UIF PQUJPO |%JTBCM
PQUJPO JT TFMFDUFE VOEFS |&EJU "EWBODFE 4FUUJOHT}

$MJDL UIF **Server Status**

11

Migrating from lmgrd to lmadmin

A Fundamental Mode Change

5IF PCWJPVT DIBOHF JT UIBU QSFWJPVT WFSTJPOT PG FUBEDMPJNDBOTF MJGFSWF
JOUFSGBDF BOE UIF OFX MJDFOTJOH TFSWFS NBOBHFS DMJFOU DPO
NPSF GVOEBNFOUBM DIBOHF JO PQFSBUJPO JT UIBU DPOGJHVSBUJPO PQUJ
BOE SFMBVODI UIF UPPM UIF QSFWJPVTMZ TFU PQUJPOT TUBZ JO FGGFDU

8JUI UIF QSJNBSZ NPEF PG PQFSBUJPO GSPN UIF DPNNBOE MJOF PQU
UIF SFRVJSFE TQFDJGZJOH PG B MJDFOTF GJMF 5P DIBOHF TFUUJOHT ZPV
GJMF BOE PS UIF TDSJQU DPOUBJOJOH ZPVS DPNNBOE MJOF PQUJPOT BOE

*O DPOUSBTU UP UIF MJDFOTF TFSWFS NBOBHFS JT EFTJHOFE UP

- 4VQQPSU NVMUJQMF WFOEPS EBFNPOT XJUI POF
- -BVODI XJUIPVU SFRVJSJOH BOZ DPOGJHVSBUJPO PQUJPOT
- 1FSGPSN BMM TFSWFS DPOGJHVSBUJPO BOE BENJOJTUSBUJPO GVODUJP
  UIF MNVUJM QBDLBHF QSPWJEFT BEEJUJPOBM GVODUJPOT
- *NQPSU FYJTUJOH MJDFOTF GJMFT BOE MJDFOTF TFSWFS NBOBHFS JT DPNQBUJCMF
  WFOEPS EBFNPOT QSPEVDFE VTJOH 'MFY/FU 1VCMJTIFS BOE MBUFS
- ,FFQ DPOGJHVSBUJPO PQUJPOT QFSTJTUFOU

1FSTJTUFOU DPOGJHVSBUJPO PQUJPOT JT B TJHOJGJDBOU DIBOHF 0ODF T
FYBNQMF JG UXP WFOEPS EBFNPOT BSF TQFDJGJFE UP VTF UIF TBNF 5$1 P
SFRVJSFT NBLJOH DIBOHFT UP BU MFBTU POF PG UIF MJDFOTF GJMFT BT X

Command Changes

#FDBVTF PG UIF DIBOHFT JO UIF GVOEBNFOUBM PQFSBUJPO PG UIF TZTUFN
GPMMŽX%ŒDH PNNBOE MJOF PQUJPOT BŽ‹ƒ †O•U TVQQPSUFE CZ

Table 11-1 • $PNNBOE MJOF PQUJPOT UP MNHSE UIBU BSF OPU TVQQPSUFE CZ M

lmgrd option	lmadmin notes
–2 –p	5IF SFQMBDFNFOU†P‹QUŽ›P‡XJTDI JT UIF EFGBVMU GPS MNBENJO
–z	5IF SFQMBDFNFOU”P%ŒUJP D JT
–c license_file_list	-JDFOTF GJMFT BSF OPX NBOBHFE VTJOH FJUIFS UIF NBOBHFNFOU JOUFSGBDF PSÔU'F' NBJpO!...6B † **# nc r D _ aer i eTŕ d# aeŕ nis**

lmadmin License Administration Functions

Ž•ƒ†•‹QSPWJEFT TPNF PG UIF MJDFOTF BENJOJTUSBUJPO GVODUJPOT QSFW
MJDFOTF BENJOJTUSŽB‘U‘JŽ•DOVWUIFM8UJOETPXTS QMBUGPSN 5IF GPMMPXJOH UBCM
XJUIŽ•Qƒ†•‹UIBU SFQMBDF UIPTF QSPWJEFE CZ UIF MJDFOTF BENJOJTUSBUJP

Table 11-2 • MNBENJO -JDFOTF "ENJOJTUSBUJPO 'VODUJPOT

lmadmin Function	Description	Replaces Utility
Dashboard - Licenses	%JTQMBZT EFUBJMT PG MJDFOTFŽ•Sƒ‰HIUT BWBJMBCMF BOE J VTF	

5IF GPMMPXJOH UBCMF EFUBJMT XIJDI DPNNBOE MJOF VUJMJUJFT NBZ OP
SFRVJSFE XIŽƒ•TJOH

12

Using License Administration Tools

History

‡ 5IF^˜‡”„‘•♯PQUJPO XBT JOUSPEVDFE JO WFSTJPO PG UIF VUJMJUJFT

Imborrow

5IFŽ•„‘””‘™

5P CPSSPX MJDFOTFT GPS UIF EFTJSFE WFOEPS OBNFUIBPO UIIF VTBNSF SEVBCTBC
Ž•„‘”””‘™

-d †‹•'Ž ƒ› 6TFE UP TQPQDMBZ UIF EPTTFM4MBMBZ PWFS TTM

*G UIF CPSSPXJOH TZTUFN JT OPU QMBDFE CBDL PO UIF OFUXPSL CFGPSF
SFUVSOFEDBOEJT LFQU JOUBDU "EEJUJPOBMMZ BO FSSPS NFTTBHF JT JTT
UIF TZTUFN OFFET UP CF DPOOFDUFE UP UIF OFUXPSL

/PUF&•BSMZ CPSSPXFE MJDFOTF SFUVSO XBT JOUSPEVDFE JO WFSTJPO V

lmborrowl

Ž•„‘”””‘™ŽIPVME CF VTFEŽ•„O’T‘UXFBFD PGPSSPXJOH DMJFOUT 0QFDJGZO °e
5IJT OPO EFGBVMU CFIBWJPVS JT OFFEFE GPS MFHBDZ MJDFOTJOH NPEFMT

Ž•„‘”””‘™ŽPFT OPU BMMPX UIF WFSTJPO UP CF TQFDJGJ•„F’‘™IFO SFUVSOJOH B

0OMZ EFQMPZ UIJT VUJMJUZ UP FOE VTFST JG ZPVS GFBUVSF OBNFT IJTUP
BHBJOTU VTJOH IZQIFOT JO GFBUVSF OBNFT

See Also
MNCPSSPX
O O O O O JO UIF $ $ 'VODUJPO 3FGFSFODF

lmdiag

Ž•†‹ƒ‰OBCMFT ZPV UP EJBHOPTF QSPCMFNT XIFO ZPV DBOOPU DIFDL PVU B

Usage

Ž•†‹ƒ‰ fŽ^‹.... ‡••‡U^‹Ž‡„UfŽ^‹••„–^ƒ‡ƒ—ƒ”[‡‡›™‘°˜†ƒŽ—„„‡

XIFSF

Table 12-7 • MNEJBH "SHVNFOU 6TBHF

Argument	Description
-c Ž‹…‡••‡U^‹Ž‡UŽ‹‰–JBHOPTF UIF TQFDJGJFE GJMFT	
-n	3VO JO OPO JOUFSBDUJWF NPEF QSPNQU GPS BOZ JOQVU J UIJT NPEF FYUFOEFE DPOOFDUJPO EJBHOPTUJDT BSF OPU
^‡ƒ——”‡	%JBHOPTF UIJT GFBUVSF POMZ
•‡›™‘”†¶˜ƒŽ—‡	*G B MJDFOTF GJMF DPOUBJOT NVMUJQMF MJOFT GPS B QB GPŽS†‹ƒ‰P SFQPSU PO 'PS FYBNQMF Ž•†‹ƒ‰ ^h[°hijklmno BUUFNQUT B DIFDLPVU PO UIF MJOF X‡›U‘UTF PDTUPG UIF GPMMPXJOH 7&34*0/)045*% &91%"5& ,&: 7&/%03@453*/(

*G ‹Ž‡ƒ——”‡ TQFDJGJFE GJMFT PO BMM GFBUVSFT JOŽU‹ƒ‰ TQFDJGJFE GJMFT J
JOGPSNBUJPO BCPVU UIF MJDFOTF UIFO BUUFNUT UP DIFDL PVU FBDI MJ
JOEJDBUFT UIJT *G UŽ‹ƒ‰ FDWLPTVZPGVBUMFT SFBTPO GPS UIF GBJMVSF *G UIF
Ž•†‹ƒ‰ BOOPU DPOOFDU UP UIF MJDFOTF TFSWFS UIFO ZPV IBWF UIF PQUJP
EJBHOPTUJDT

5IFTF FYUFOEFE EJBHOPTUJDT BUUFNQU UP DPOOFDU UP FBDI 5$1 *1 QPSU
OVNCFS JO UIF MJDFOTŽ•†G‹ƒ‰FJDBUFT UIBU JT M
Ž•ƒ†•‹PŽS•‰"QSPDŽ•†‹ƒ‰OEJDBUFT UIŽ†B‹ƒ‰XEMT U1G WFOEPS EBFNPO GPS UIF
UFTUFE UIFO JU JOEJDBUFT UIF DPSSFDU QPSU OVNCFS GPS UIF MJDFOTF

See Also
'-&9-.@%*"(/045*$4

lmdown

5IFŽ•†‘™¥UJMJUZ BMMPXT GPS UIF HSBDFGVM TIVUEPXO PG TFMFDUFE MJDF

hostid_type **PLATFORM-INDEPENDENT HOSTIDS**

DPOUJOVFE

‡ ^—•‡$VSSFOU VTFS OBNF /PUF UIBU VTFS OBNFT UIBU DPC
yUFTU VTFSz DBOOPU CF VTFE JO UIF 0QUJPOT GJMF 6TF
FYBNQMF yUFTUz JO UIF 0QUJPOT GJMF

‡ ^†‹•’Ž‡$VSSFOU EJTQMBZ OBNF 0O 8JOEPXT JU JT UIF TZT
PG B UFSNJOBM TFSWFS FOWJSPONFOU UIF UFSNJOBM TF
UIF GPS Nu––›ŠS UIF 9 %JTQMBZ OBNF

‡ ^Š‘•–•‡$VSSFOU IPTU OBNF

‡ ^Š‘•–†‘•‡$VSSFOU IPTU EPNBJO

‡ ^‹•–‡”•‡1 P SFTT F UIF NBDIJOF JO UIF GPSNBU PG UIF

-ptype -JDFOTF TFSWFS CJOEJOH JO WJSUVBM FOWJSPONFOUT POM
PQUJPO NVTU CF VTFE JO DPOKVODUJPO XJUI UIF -IPTUJE PQUJPO
DPOUJOVFE

-ptype SFRVJSFT POF PG UIF GPMMPXJOH BSHVNFOUT XIJDI UIF
IPTUJE BQQSPQSJBUFMZ BT EFTDSJCFE

‡ x4VQQPSUFE GPS 9FO 7.XBSF 0SBDMF 7JSUVBM#PY)ZQ
(PPHMF $PNQVUF .JDSPTPGU "[VSF FWFS3VO /VUBOJY B

Ž•Š‘•–‹† ^'–›'‡ ^JT—‹PX UIF POMZ TVQQPSUFE VTBHF PG U
HFOFSBUJOH

‡ x'PS UIF &MBTUJD *1 BEESFTT ".* JOTUBODF *% PS ".*
&$ FOWJSPONFOU 1SFGJYFT IPTUJE XJUI

O JT SFDPNNFOEFE JOTUFBE PG SFQSFTFOU UIF ".* JOTUB
UIF "NB[PO &$ FOWJSPONFOU

‡ x1IZTJD UB[O 'aiEq# U5TUJ [•P Ð BJU Ðr %1@€ XJ‡Ù‡À0w€ p•$"E

5IF GPMMPXJOH BSF FYBNŽ•Ì‹F•Ť‹PG PVUQVU GSPN

Ž•Š‘•–‹† ^ ‘'›"‹‰Š– •…€ hpop^ieih Ž‡š‡"ƒ '^–™ƒ"‡ \ ŽŽ ‹‰Š–• ‡•‡"˜‡†\

Š‡ Ž‡š ‡– Š‘•– '^ –Š‹• •ƒ…Š‹•‡ ‹• QQee^^leho…hop eehp†ikk‡p^… eehm…^†ƒ^ml† ee
eelelm…eeeeh eelelm…eeeeoQQ

•Ž› —•‡ ^"'• –Š‡ Ž‹•– '^ Š‘•–‹†•\

Ž•Š‘•–‹† ^'–›'‡ ^——‹†
Ž•Š‘•–‹† ^ ‘'›"‹‰Š– •…€ hpop^ieih Ž‡š‡"ƒ '^–™ƒ"‡ \ ŽŽ ‹‰Š–• ‡•‡"˜‡†\
Š‡ Ž‡š ‡– Š‘•– '^ –Š‹• •ƒ…Š‹•‡ ‹• Q O °eehhiijjkkllmmnnoopphh„„……††‡^^Q

' ‰‡– '…•‡" …'•–ƒ‹•‡" [

Ž•Š‘•–‹†\‡š‡ ^…'•–ƒ‹•‡"O‹†
Ž•Š‘•–‹† ^ ‘'›"‹‰Š– •…€ hpop^ieih Ž‡š‡"ƒ\ ŽŽ ‹‰Š–• ‡•‡"˜‡†\
Š‡ Ž‡š ‡– Š‘•– '^ –Š‹• •ƒ…Š‹•‡ ‹• Q O ° pj mhole Q

/PUF4PNF MJNJUBUJPOT FYJTU XJUI IPTUJE SFQPSUJOH PO WJSUVBM EFWJD

‡ **Ethernet hostids on Windows platforms** x'SPNŽ•——‹ŒFSTJPO POXBSET POMZ UIF IPTU
FUIFSOFU BEBQUFST BSF SFQPSUFE %FWJDFT JEFOUJGJFE BT WJSUVBM
JEFOUJUJFT BSF OPU QFSNBOFOU

‡ **Physical (bare metal) hostids on virtual machines** x8IFO SVO GSPN B WJŽ•ŠŠV•B–MD NBOIOPJUOSFUVS
IPTUJET GPS UIF QIZTJDBM NBDIJOF UIBU IPTUT UIF WJSUVBM NBDIJOF
Ž•Š‘•–‹NVTU CF SVO GSPN UIF IPTU 04

See Also

)PTUJET GPS 4VQQPSUFE 1MBUGPSNT

lminstall

5IFŽ•‹•••–ƒŽŽ

5P DPOWFSU GSPN SFBEBCMF UP EFDJNBM

Ž•‹••–ƒŽŽ ^‹ ‹•OŽ‹…O^‹Ž‡ ^‘ ‘—–OŽ‹…O^‹Ž‡ ^‘†‡…‹•ƒŽ

5P DPOWFSU UP W GPSNBU

Ž•‹••–ƒŽŽ ^‹ ‹•OŽ‹…O^‹Ž‡ ^‘ ‘—–OŽ‹…O^‹Ž‡ ^‘˜‡”^•– l\h

5P FOGPSDF B NBYJNVN MJOF MFOHUI PG GPS FYBNQMF DIBSBDUFST

Ž•‹••–ƒŽŽ ^•ƒšŽ‡• le

$POWFSTJPO FSSPST BSF SFQPSUFE BT OFDFTTBSZ^B‡E”D^BŽ‡‹•C•F–ƒXZSBJTUUFO U
B MJNJU PG MJOFT PG JOQVU

/PUF%•FDJNBM GPSNBU JT EFQSFDBUFE BOE JT OPU TVQQPSUFE

lmlicvalidator

Table 12-12 •

Keyword / Syntax	Yes | No	Notes
‹•‡• ™‹–Š •‹‰•ƒ––”‡F T •‹••ƒ–…Š		
‹•‡• ™‹–Š —•…‘—•–‡‡F T •‡›™‘”†		
•‡›™‘”†	/P	5IF QBDLBHF MJOF WBMJEBUJPO JT OPU QSFTFOU VUJMJUZ
‡”˜‡” Ž‹•‡ ’”‡•‡•…‡ :F T		
Ž‹•‡ ™‹–Š Y :F T ƒ U ¶•‡…‘• †•„		
Ž‹•‡ ™‹–Š Y ƒ’‘”:F„ T		
Ž‹•‡ ™‹–Š Y :F T ƒ U U „		
’‰”ƒ†‡ ‹•‡ :F T		
U •‡›™‘”† :F T		
‡•†‘” †ƒ‡•‘• ƒ˜ƒ‹Žƒ„Ž‡F T …Š‡…••		
‡•†‘” Ž‹•‡ ’”‡•‡•…‡ :F T		
‡•†‘” ’‘”– ”ƒ•‰‡ :F T ˜ƒŽ‹†ƒ–‘•		
u Ž‹•‡ ™‹–Š:YF T ‘’–‹‘••U^‹Ž‡U’ƒ–Š		
u Ž‹•‡ ™‹–Š:YF T ’‘”–		
u Ž‹•‡ ™‹–Š:YF T ˜‡•†‘”U†ƒ‡•‘•U’ƒ–Š		

Ž•'ƒ–Š DDFTTFT UIF MJDFOTF TFBSDI QBUI GSPN UIF GPMMPXJOH MPDBUJPO

‡ 8JOEPXT SFHJ TUSZ O N '^–™ƒ"‡N Ž• ‹…‡••‡ ƒ•ƒ‰‡"

‡ 6/*9 GJMF QBUI Ž‡šŽ•"…

5BTL 5P EJTQMBZ UIF DVSSFOU MJDFOTF TFBSDI QBUI TFUUJOHT

6TF UIF GPMMPXJOH DPNNBOE

Ž•'ƒ–Š ^•–ƒ––—•

5IF GPMMPXJOH JT EJTQMBZFE

Ž•'ƒ–Š ^ ''›"‹‰Š– •…€ hpop^ieih Ž‡š‡"ƒ '^–™ƒ"‡ \
•'™• ‡•†'"•[
OOOOOOOOOOOOO
†‡•'[\u…'—•–‡†\Ž‹…[\u—•…'—•–‡†\Ž‹…
OOOOOOOOOOOOO
–Š‡" ‡•†'"•[
OOOOOOOOOOOOOO
u—•"uŽ'…ƒŽu^Ž‡šŽ•uŽ‹…‡••‡•uŽ‹…‡••‡\Ž‹…

/PUF UIBU XIFSF UIF QBUI JT TF‹UŽU.RG JBMIEJTSIBFSDIFUPNSJZTUBFMMTFUQIBSBUFMZ

lmremove (in License File–Based Licensing)

5IFŽ•"‡•'™"WuÂJUMJFUZ 5OBCMFT ZPV UP SFNPWF B TJOHMF VTFSzT MJDFOTF GPS
BDUJWF JQøS Q@ÐQ@ lp PJM ` MJ@ UVSpÐM TkpEÐJÐO

Usage

Ž•”‡•‘˜‡ ƒŽ‹ƒ…‡ ‡•‡‡U^‹Ž‡„U‹Ž‡ƒ•——”‡ —•‡” —•‡”U Š‘•– †‹•’Žƒ›

P S

Ž•”‡•‘˜‡ ƒŽ‹ƒ…‡ ‡•‡‡U^‹Ž‡„U^ŽŠ^‡ƒ––”‡ •‡”˜‡”U Š‘•– ’‘”– Šƒ•†Ž‡

5 I F^V T F^S T F S @ E P J T Q M B Z W F S @ P S U I B O E M F J O G P S N B U J P O N V S T C F P C U B J O E G
Ž••–ƒ—ƒ

Ž•”‡•‘˜‡ SFNPWFT BMM VTFSS@TIPTU BOE EJTQMBZ GSPN VTBHE PG GFBUVS
Ž‹…‡•‡O^‹Ž‡OŽ‹†T–QFDJGJFE UIF JOEJDBUFE GJMFT BSF VTFE BT UIF MJDFOT

5 I F^ŠW B S J B U J P G‡V˜‡FUŠU•H– BOE MJŠƒF†ŽŽBFT SFQPŽU•FƒE– C‰POTJEFS UIJT FYBN
Ž••–ƒ— P V U Q V U

Œ‘‡ •‹”˜ƒ•ƒ u†‡˜u––›’l •˜h\e` P V T J E F h\…Ž•—ux˜nVÐ˜k”˜@J Y‡‘yR$"w ƒ•ƒ

PS

Ž•”‡•‘˜‡ ^Š ˆh …Ž‘—†p nmlk hei

8IFO SFNPWJOH CZ IBOEMF JG MJDFOTFT BSF HSPVQFE BT EVQMJDBUFT B
MJDFOTF MJOHFSJOH JT €@

PS

Ž•”‡•‘˜‡ ^… …‘—•–‡†\Ž‹… ^–•„‘”“‘™•–ƒ–

0VUQVU TJNJMBS UP GPMMPXJOH JT EJTQMBZFE

°°° °°°

—•„‡” ‘^ Ž‹…‡••‡• „‘”“‘™‡† …—”“‡•–Ž›[ij

‡”…‡•–ƒ‰‡ „‘”“‘™ ”‡…Žƒ‹•• Ž‡˜‡Ž[he©

‘—•– ‘^ ”‡…Žƒ‹••‡† Ž‹…‡••‡•[h

—•„‡” ‘^ „‘”“‘™ ”‡…Žƒ‹•• …—”“‡•–Ž› ƒ˜ƒ‹Žƒ„Ž‡[h

/PUJDF UIBU UIF DPVOU PG SFDMBJNFE MJDFOTFT JT JODSFNFOUFE CZ UIF SFDMBJNFE

/PUF8♦FO B SFDMBJNFE EFEVDUJPO T EVV EFVO BSIF O A|` DP P@0@EEOB NF0

*G UIF PQUJPOBM WFOEPS EBFNPO OBNF JT TQFDJGJFE POMZ UIF OBNFE E
GJMF JO UŽ‹J‰Ø”ÐDPBFTTF OPU SFSFBE UIF MJDFOTF GJMF

Usage

Ž•”‡”‡ƒ† ƒŽ‹‹.... ‡••‡U^‹Ž‡„UƒŽ^‹˜•‡–•†‘™‡•†‘„” ƒ^ƒŽà‹

5IFŽ••–ƒ¥VUJMJUZ QSJOUT JOGPSNBUJPO UIBU JU SFDFJWFT GSPN UIF MJDFO
VOTFSWFE MJDFOTFT TVDI BT VODPVOUFE MJDFOTFT 5P SFQPSU PO BO VO
TFSWFE MJDFOTF GJMF BOE UIF BQQMJDBUJPO NVTU CF EJSFDUFE UP VTF
’‘”–#Š‘•– PS 64&@4&37&3 2VFVFE VTFST BOE MJDFOTFT TIBSFE EVF UP EVQ
CŽŽ••–ƒ–

Usage

Ž••–ƒ– ƒ^ƒ ƒ^^•‘^—•‡”^‹•ˆ‘„„ ƒ^ƒ•‡…„ ƒ^… Ž‹…‡••‡Oˆ‹ŽOŽ‹•–„ ƒ^ˆ ƒˆ‡ƒ––”‡„ ƒ^^•‘^—•
ƒˆ‡ƒ––”‡„„ ƒ^•ƒ•‡”˜‡”„„ ƒ^ ƒ˜‡•†‘”„„ ƒ^– –‹•‡‘——O˜ƒŽ—‡„ ƒ^’”‘Œ„

XIFSF

Table 12-18 • MNTUBU "SHVNFOU 6TBHF

Table 12-19 • MNTUBU 0VUQVU

Output	Argument	Description
19.36.18.26	†‹•'Žƒ›	%JTQMBZ XIFSF VTFS JT SVOOJOH
v1.0	˜‡”•‹'•	7FSTJPO PG GFBUVSF
myhost1	•‡”˜‡”UŠ'•–	)PTU XIFSF MJDFOTF TFSWFS JT SVOOJOH
40000	''”–	5$1 *1 QP•S‡U‡PUŠ'X–IFSF MJDFOTF TFSWFS JT SVO
102	Šƒ•†Ž‡	-JDFOTF IBOEMF
start Fri 5/3 7:29	…Š‡…•'——U–‹••‡5JNF UIBU UIJT MJDFOTF XBT DIFDLFE PVU

5IF—•‡”—•‡”UŠ'•‹↩'Žƒ›‡”˜‡”UŠ'•'–”– BOŠEƒ•†ŽJOGPSNBUJPO JT VTFE XIFO SFNPWJOH Ž•”‡•'˜‡

lmswitch

5IFŽ••™‹–…V.UŠJMJUZ XIFO VTFE XJUIPVU SPMMPWFS BSHVNFOU TXJUDIFT UIF E WFOEPS EBFNPO CZ DMPTJOH UIF FYJTUJOH EFCVH MPH GPS UIBU WFOEPS WFOEPS EBFNPO XJUI B OFX GJMF OBNF *U BMTP TUBSUT B OFX EFCVH MP EPFT OPU BMSFBEZ FYJTU

5IFŽ••™‹–…V.UŠJMJUZ XIFO VTFE XJUI SPMMPWFS BSHVNFOU SPMMT PWFS UIF E DPOUFOU UP B OFX GJMF UIFO TUBSUJOH UIF OFX EFCVH MPH XJUI PSJHJ TQFDJGJFE EFCVH MPH XPVME CF SPMMFE PWFS UP B GJMF XJUI B QSFEFG

/PUF5‡FŽ••™‹–…V.UŠJMJUZ BMXBZT XSJUFT JO B OFX EFCVH MPH GJMF *G UIF G

Usage

Ž••™‹–…ŠŽƒ^…‡••‡U^‹Ž‡„U‡Ž‡••†–'”•‡™U†‡„—‰UŽ'‰ ^”'ŽŽ'˜‡”

XIFSF

Table 12-20 • MNTXJUDI "SHVNFOU 6TBHF

Argument	Description
-c Ž‹…‡••‡U^‹Ž‡UŽ‹6–TF UIF TQFDJGJFE MJDFOTF GJMFT
˜‡•†'”	7FOEPS EBFNPO JO UIJT MJDFOTF GJMF
•‡™U†‡„—‰UŽ'‰	1BUI UP OFX EFCVH MPH GJMF

Table 12-20 • MNTXJUDI "SHVNFOU 6TBHF

Argument	Description
-rollover	3PMMT PWFS UIF EFCVH MPH CZ NPWJOH UIF FYJTUJOH EF UIFO TUBSUJOH UIF OFX EFCVH MPH XJUI PSJHJOBM EFCV JT OPU TQFDJGJFE EFCVH MPH XPVME CF SPMMFE PWFS U ³˜‡•†‘" †ƒ‡•‘• •ƒ•‡´³Š‘•–•ƒ•‡´³†ƒ–‡´O ³–‹•‡´\Ž‘‰

#Z EFGBVMU EFCVH MPH PVUQVU GSPN UIF MJDFOTF TFSWFS BOE BMM WFC UIF TBNF EFCŽV•H™ G–JBMŠMPXT DPNQBOJFT UP LFFQ TFQBSBUF MPH GJMFT GPS DPOUSPM UIF TJ[F PG UIFJS EFCVH MPH GJMF

*G EFCVH MPH PVUQVU JT OPU BMSFBEZ EJSFDUFŽU•P™ B– D.ŠQ BMSTBUIF GVFMOFE EBFNPO UP TUBSU XSJUJOH JUT•E™ O V‡„—M‰ŽPWJUQ WF OEPES G BMFPO JT BMSF PXO EFCVŽH•M™R–HU.ŠMMT UIF WFOEPS EBFNPO UP DMPTF JUT DVSSFOU EFCVH PVUQV•U™UP†‡„—‰UŽ‘‰

/PUF • 5IF FŽG•P™D–UD.ŠG UJOVFT POMZ VOUJM UIF WFOEPS EBFNPO JT TIVU EP Ž•"‡"‡ƒ†8IFO UIF WFOEPS EBFNPO JT SFTUBSUFE PS JUT PQUJPOT GJMF JT S PQUJPOT GJMF UP EFUFSNJOF XIFUIFS PS OPU UP XSJUF JUT EFCVH MPH PV *U JT CFTU QSBDUJDF U•P™TUF†U‡„—‰ŽWŽ‰1SUPHSOBN‰BUB TVC GPMEFS TJODF U XSJUF QFSNJTTJPO CZ EFGBVMU XIJDI JT OFFEFE XIFO UIF MJDFOTF TFSW QFSNJTTJPO

See Also:
*OTUBMMJOH GPS 3E–G PS SŽ•P†U•‹E OTRQM BZ
%&#6(-0(
%FCVH -PH 'JMF

lmswitchr

5IFŽ••™‹–…VŠU'JMJUZ TXJUDIFT UIF SFQPSU MPH GJMF CZ DMPTJOH UIF FYJTU XJUI B OFX GJMF OBNF *U BMTP TUBSUT B OFX SFQPSU MPH GJMF JG POF

Usage

Ž••™‹–…Š"Žƒ^…‡••‡U^‹Ž‡„UŽ‡ƒ•——"‡ •‡™U"‡'‘"–UŽ‘‰

8JUI WFSTJPO PS MBUFS WFOEPS EBFNPO UIF DPNNBOE MPPLT MJLF UI

Ž••™‹–…Š"Žƒ^…‡••‡U^‹Ž‡„UŽ‡•••†–" •‡™U"‡'‘"–UŽ‘‰

XIFSF

Table 12-21 • MNTXJUDIS "SHVNFOU 6TBHF

Argument	Description
-c Ž‹…‡••‡U^‹Ž‡UŽ‹•– 6TF UIF TQFDJGJFE MJDFOTF GJMFT	

*G SFQPSU MPH … JT BMSE … BOE TUB … SFQ … MPH P

/PUF5•F FGGŽÐ™‹P–GDŠ”C … M UIF … TIVU EP
Ž•”‡”‡ƒ18IFO UIF WFOE … QUJPOT GJMF UP EFU … U UP X … PH PVU
QSBDUJDF UP TFU•Ł™R … %BUB TVC G … F UIJT
QFSNJTTJPO CZ EFGBV … E XIFO UIF MJ … WFS SVO

See Also:
3&1035-0(
MNMJ … MJEBUPS
3FQPS … H 'JMF

lmtpminfo

5IF GPMMPXJOH 51. JOGPSNBUJPO JT BWBJMBCMF

Table 12-22 • 51. JOGPSNBUŽJ•P‒O‹GSPN

Output	Description
”—•–‡† Žƒ–ˆ'”• ‘†—Ž‡ • € †‡–‡…–‡†\	51. JT BWBJMBCMF " MJTU P 51. EFUBJMT JT EJTQMBZFE
”—•–‡† Žƒ–ˆ'”• ‘†—Ž‡ • € •–ƒ——• …ƒ••‘– „‡ †‡–‡”•‹•‡†\ [‘—Ž† •‘– ‘„–ƒ‹• ”—•–‡† Žƒ–ˆ'”• ‘†—Ž‡ • € ‹•ˆ'”•ƒ–‹•\	
[^ihj\ Š‡ Ž‡š ‡– ‹…‡••‹•ˆ“7€ •‹•”•••$“•Q'p0 ‹–ˆ?4pð € ‹•ˆ'”•ƒ–‹•\	

Imver

5IFŽ•˜‡”VUJMJUZ SFQPSUT UIF WFSTJPO PG B 'MFY/FU 1VCMJTIFS MJCSBSZ P

Table 12-23 • -JTU PG 7.@GBNJMZ BOE 7.@OBNF BOE IZQFSWJTPS TVQQPSUFE

Hypervisor	Family	Name
QEMU-KVM*	2&.6	2&.6 ,7.
Google Compute	(00(-&	$0.165&
Microsoft Azure	.*$3040'5	";63& QSFWJPVTMZ):1&3 7
everRun	453"564	&7&336/
Nutanix	/65"/*9	/65"/*9

5IF ,7. TVGGJY JT POMZ BQQFOEFE UP UIF 2&.6 IZQFSWJTPS OBNF BU BUUSJCVUF XIFO UIF QSFTFODF PG UIF ,7. WJSUVBMJ[BUJPO JOGSBTUS

‡ /BNF PG UIF WJSUVBM NBDIJOF 5IF /BNF TQFDJGJFT UIF EFUFDUFE IZQF 7. JT SVOOJOH PO 5IF /BNF JT GPS GVUVSF VTF BOE JT JOUFOEFE UP

‡ 66*% PG UIF NBDIJOF

‡ (&/*% PG UIF NBDIJOF

0VUQVU FYBNQMF GPŽ˜‰‹•F‘ DŽ‘N‰BOE

[N •‡"•N †•‹•‹•–"ƒ–‘"N ‡••–''Nmk„‹–NšmkO•m´Ž•˜•‹•^‘\‡š‡ ^Ž‘•‰

Ž•˜•‹•^‘ ^ ''›"‹‰Š– •…€ hpop^ieih Ž‡š‡"ƒ '^–™ƒ"‡ \ ŽŽ ‹‰Š–• ‡•‡"˜‡†\

—••‹•‰ '• ‹"––ƒŽ ŽƒŽ–^‘"•

°

°

°e emk lm^kml ^hiom^mikj^oh ne inmm

°kjjmkm…j…†epojo^[jp†mpl„ep†plj…„k

/PUF*G UIF (&/*% JT OPU BWBJMBCMF ƒ‘‰kŽ0}‚ŽJ‡T EJTQMBZFE

Other Important Utilities

lmobfslog

5IFŽ•'„^•Ž‘‰UJMJUZ QSPDFTTFT UIF EFCVH MPH GJMF UP HFOFSBUF UIF PCGV QSPDFTTJOH

/PUF*G UIF EFCVH MPH IBT CFFO QSPEVDFE XJUI 0#'@"%%."3, PQUJPO POM
HFOFSBUF PCGVTDBUFE VTFSOBNFT JO UIF EFCVH MPH

Usage

Ž•‘„^•Ž‘‰ ƒ^‹ †‡„—‰OŽ‘‰„ ƒ^‘ •‡™O†‡„—‰OŽ‘‰„ ³^”•ƒ”•‡”´

8IFSF

Table 12-24 • MNPCGTMPH "SHVNFOU 6TBHF

Table 12-25 •

Argument	Description
-help	5P QSJOU VTBHF JOGPSNBUJPO
-i debug_log	1BUI UP FYJTUJOH EFCVH MPH GJMF XJUI NBSLFST UIBU VTFSOBNFT
-o new_debug_log	1BUI UP OFX EFCVH MPH GJMF UIBU JT HFOFSBUFE BGU
-rmarker	3FNPWFT UIF NBSLFST GSPN UIF EFCVH MPH GJMF

lmtools (Windows only)

5IFŽ•–‘‘Ž•VUJMJUZ JT B HSBQIJDBM VTFS JOUFSGBDF UIBU FOBCMFT ZPV UP
JT BWBJMBCMF JO UIF CJU BOE CJU 8JOEPXT QBDLBHFT "MXBZT VTF U

4PNF PG UIF GVODUJPOT UIJT VUJMJUZ QFSGPSNT JODMVEF

‡ 4UBSUJOH TUPQQJOH BOE DPOGJHVSJOH MJDFOTF TFSWFST

‡ (FUUJOH TZTUFN JOGPSNBUJPO JODMVEJOH IPTUJET

‡ (FUUJOH TFSWFS TUBUVT

5IFŽ•–‘‘Ž•VUJMJUZ IBT UXP NPEFT JO XIJDI UP DPOGJHVSF B MJDFOTF TFSWF

‡ $POGJHVSBUJPO VTJOH B MJDFOTF GJMF

‡ $POGJHVSBUJPO VTJOH TFSWJDFT

:PV NVTU SŽV•O‘‘ŽMFUJMJUZ BT BO BENJOJTUSBUPS *G ZPV EP OPU SVO UIJT
6TFS "DDPVOU $POUSPM 6"$ EJBMPH XJMM EJTQMBZ BT TPPO BT JU JT TU
PO UIF TZTUFN

Configuration Using License File

0QFSBUJPOT BSF QFSGPSNFE PO B QBSUJDVMBS MJDFOTF GJMF 5IF GJMF
DBOOPU TŽ•Ÿ$U•PŽ•‰”QSPDFTT CVU ZPV DBO EP FWFSZUIJOH FMTF

‡ —•‡”O‹•ˆ‘°

‡ ƒ••‡–O‹•ˆ‘°

*G UIFO PS O LFZXPSET BQQFBS JO B '&"563& MJOF UIJT GFBUVSF TQ
VTFE UP RVBMJGZ UIF GFBUVSF

6TJOH B QBDLBHF OBNF JO QMBDF PG B GFBUVSF OBNF BQQMJFT UIF PQUJ

/PUF"•DPMPO JT B WBMJE GFBUVSF OBNF DIBSBDUFS *G DPMPOT BSF JO
MJDFOTFT XJUI UIF GPMMPXJOH BMUFSOBUJWF TZOUBY VTJOH RVPUBUJPO
QHDWXUH NH\ZRUQH

Specifying License Restrictions Using Type

4PNF PQUJPO LFZXPSET SFTUSJDU XIP NBZ VTF MJDFOTFT PS XIFSF MJDFO
BSHVNFOU UIBU TQFDJGJFT XIBU UIF SFTUSJDUJPO JT CBTFE PO

8IFO VTJOH UIF PQUJPO LFZXPSET

5IF UZQFT MJTUFE BCPWF UBLF B TJOHMF NFNCFS 'PS FYBNQMF

…‘‘Ž•‘ˆ– Œ‘‡

5P TQFDJGZ B MJTU PG VTFST PS IPTUT GPJSSTOU EFRGQUOJFPUOIFMJMJOFTU VTFOHVUF
(3061PS045@(30UZQF UP TQFDJGZ UIF HSPVQ OBNF 'PS FYBNQMF

•–ƒ”• Œ‘‡ „ƒ”„ƒ”ƒ •—•ƒ•
…‘‘Ž•‘ˆ– •–ƒ”•

/PUF*G NPSF UIBO POF PQUJPO GPS UIF TBNF FOUJUMFNFOU*% BOE GV
UIF PQUJPOT GJMF POMZ UIF GJSTU POF JT DPOTJEFSFE BOE TVCTFRVFOU

ACTIVATION_ EXPIRY_DAYS

5IJT PQUJPO FOBCMFT MJDFOTF BENJOJTUSBUPST UP DPOUSPM UIF BDUJW
NFOUJPOFE JO UIF PQUJPOT GJMF EVSJOH BDUJWBUJPO 5IF QVCMJTIFS DP
FYQJSBUJPO EBZT *G UIF FYQJSBUJPO EBUF JT HSFBUFS UIBO UIF EBUF TP
TVDDFTTGVM

O O ‡•–‹–Ž‡•‡•– †ƒ›•
O O ‡•–‹–Ž‡•‡•– [°ˆ—Žˆ‹ŽŽ•‡•– †ƒ›•

Table 13-3 • "$5*7"5*0/@&91*3:@%":4

Term	Description
entitlementID	5IF FOUJUMFNFOU *% PSJHJOBMMZ VTFE XIFO SFRVFTUJOH
days	/VNCFS PG EBZT VOUJM MJDFOTF XJMM CF SFUVSOFE
fulfillmentID (optional)	" VOJRVF JEFOUJUZ GPS UIJT GVMGJMMNFOU SFDPSE 6TF CF SFUVSOFE

'PS FYBNQMF JG UIFSF JT NPSF UIBO POF FOUSZ JO UIF PQUJPOT GJMF UI
MJOF HJWFO JO UIF PQUJPOT GJMF

O O ^ j

"T QFS UIF FYBNQMF JG UIF DVSSFOU EBUF JT %FDFNCFS UIFO UIF D
*O DBTF PG OPSNBM BDUJWBUJPO XJUIPVU UIF PQUJPOT GJMF UIF DM

/PUF*G NPSF UIBO POF U PQUJPO GPS‡U‹Ž‡ŽŽ‡B‡N•F ƒ•† ˆ—Žˆ‹ŽŽJ‡U‹–
EJGGFSFOU DPVOU PG EBZT JT TQFDJGJFE JO UIF PQUJPOT GJMF UIFO UIF
JHOPSFT TVCTFRVFOU MJOFT

BORROW_LOWWATER

5IJT PQUJPO JT VTFE GPS MJDFOTFT IFME JO MJDFOTF GJMFT 8IFO MJDFO
OPSNBMMZ QSPWJEFE JOTUFBE PG #03308

O ˆ‡ƒ––ƒ'‡[‡‡›™‘°˜†ƒŽ—„‡

$POTJEFS UIF GPMMPXJOH UXP */$3&.&/5 MJOFT

```
ˆh †‡•‘ h\e jh^†‡…^iehn l    °j³\\\´j
ˆh †‡•‘ h\e je^•‘˜^iehn l    °j³\\\´j
```

"OE UIF GPMMPXJOH PQUJPOT GJMF MJOF

```
ˆh[      °jh^†‡…^iehn      •–ƒ”•
```

#FDBVTF CPUI JOTUBODF TFDUJPOT TQFDJGZ UIF TBNF MJDFOTF QPPM UIF BCPWF PQUJPOT GJ

*O PSEFS UP FYDMVEF KVTU UIF MBUFS FYQJSJOH MJDFOTF FOTVSF FBDI J
LFZXPSE TVDIBT GPS FYBNQMF

```
ˆh †‡•‘ h\e jh^†‡…^iehn l      O     °jjh^†‡…^iehnj    °j³\\\´j
ˆh †‡•‘ h\e je^•‘˜^iehn l      O     °jje^•‘˜^iehnj    °j³\\\´j
```

8JUI UIJT FYBNQMF UIF WFOEPS EBFNPO OFFEŽ•O…‘CƒŽ”‡CV´JMU”Œ‘J•Ok•W.F‡O•E‡F–S°
Ž•O…‘•’ƒ”‡O˜‡•†‘”O‘•O—’‰Oƒ‡PS‡EFnS UP UVSO PO QPPMJOH XJUI UIF WFOEPS TUS
GFBUVSF WFSTJPO JT B QPPMJOH LFZXPSE UIF WFOEPS TUSJOH JT OFFEFE
TBNF GFBUVSF WFSTJPO

'PS B MJTU PG QPPMJOH LFZXPSET T/$3&&/5 QBHF

Using the ENTITLEMENT Modifier

5IF NPEJGJFS FOBCMFT UIF MJDFOTF BENJOJTUSBUPS UP EJGGFSFO
OBNFT CVU CFMPOH UP EJGGFSFOU QSPEVDUPTQU*JOPODPNCJNBDFOTFXBENJOJT
SFTUSJDU UIF DPDVSSFOU DIFDLPVU PG B GFBUVSF XIFO UIF MJDFOTF PS
SFTUSJDUJOH UIF DIFDLPVU PG BDUJWBUBCMF&/5*5-&.&/5 VTF UIF PQUJPO
&9$-6%&@&/5*5-&.&/5

5P VTF UIF NPEJGJFS ZPV NVTUŽ†‘•Ul‹Ž‡W‰•SOB„ƒ‹MFO’‘‘Ž‹•‰p SPNJFS N€ Ž

… Š ƒ ‘ •

EXCLUDEALL_ENTITLEMENT

5IJT PQUJPO BQQMJFT UP BDUJWBUBCMF BOE IZCSJE MJDFOTFT IFME JO US

O –› ’ ‡ ‡• ƒ • ‡v ‰ ” ‘ — ’ U ˆ ƒ • ‡

&YDMVEFT B VTFS PS QSFEFGJOFE HSPVQ PG VTFST GSPN UIF MJTU PG XIP
BMM GVMGJMMNFOU SFDPSET IFME JO USVTUFE TUPSBHF

O TVQFSTFEF€T € v 4pp S " @† QVÐ V € P P ÀPE0U DM MF0 JMF ÐS @ JPN

O ‡šƒ…– v Ž‡•‹‡•–

4FUT UIF MFWFM UP XIJDI IPTWZQBNFQTFWJEFJSOT NVTU NBUDI UIF IPTU OBNF
'MFY&OBCMFE BQQMJDBUJPO 5IF BQQMJDBUJPO JT DPOGJHVSFE UP TFOE F
OBNF '2%/ UP UIF WFOEPS EBFNPO UZQSFWTBMJEGJFST XJUI ZPVS TP
UP EFUFSNJOF GVMMZ RVBMJGJFE EPNBJO OBNF TVQQPSU

Table 13-10 • '2%/@."5$)*/(5FSNT

Term	Description
exact	5IF IPTU OBNF JOZQF TQFDJGJFS NVTU NBUDI JO DPOUFO TFOU CZ UIF BQQMJDBUJPO 5IJT JT UIF EFGBVMU TFUUJ
lenient	5IF IPTU OBNF TFOU CZ UIF BQQMJDBUJPO OFFET UP NBU UZQF TQFDJGJFS PS CZ UIF BQQMJDBUJPO XIJDI FWF

0OMZ UIF MBTU LFZXPSE JO UIF PQUJPOT GJMF IBT FGGFDU BMM PUIFST

5IF GPMMPXJOH UBCMF TIPXT UIF PVUDPNF PG NBUDIJOH BUUFNQUT CFUXF
BOE IPTU OBNFT TFOU CZ UIF BQQMJDBUJPO

Table 13-11 •)PTU /BNF .BUDIJOH .BUSJY

Options File Settings		Application configured for FQDN—sends myhost.abc.com	Application not configured for FQDN—sends myhost
FQDN_MATCHING exact	^‡ƒ––—”‡ •›Š‘•–	OP	ZFT
	^‡ƒ––—”‡ •›Š‘•–\ƒ„…\…‘•	ZFT	OP
FQDN_MATCHING lenient	^‡ƒ––—”‡ •›Š‘•–	ZFT	ZFT
	^‡ƒ––—”‡ •›Š‘•–\ƒ„…\…‘•	ZFT	ZFT

Examples

$POTJEFS UIF GPMMPXJOH FYBNQMF UIBU EFNPOTUSBUFT SFTUSJDUJWF IP

^h •›Š‘•–\ƒ„…\…‘•

O ‡šƒ…–

5IJT JOD•MŠVE–\ƒ„…\…P• UIF MJTU PG IPTUT ^BCWS UIF SVTFGFBUVSPTU OBNF TP
BQQMJDBUJPO NVTU CF B GVMMZ RVBM•JŠ‘–E\ƒ„…\•BO OBNF UIBU NBUDIFT

*O DPOUSBTU DPOTJEFS UIJT FYBNQMF XIJDI JT MFTT SFTUSJDUJWF

5P JODMVEF MJTU DSFBUF BOE TPN NPEJGJFS UIFO UIF PQUJPOT GJMF

ˆh „‘„

5IF JODMVEF MJTU JT DSFBUFE BOE TPN NPEJGJFS UIFO UIF PQUJPOT GJMF

/PUF • JT SFRVJSFE GPS O GFBUVSFT 5IF MJDFOTF BENJOJTUSBUPS BSF BMMPXFE UP VTF UIF QSFWJPVT MJDFOTF MJNJUT UIF OVNCFS PG VTFST O PS O MJDFOTF NPEFM VTFST PS QSFEFGJOFE HSPVQT PG VTFST LFZXPSE DBOOPU DIFDL PVU B MJDFOTF

Using the EXPDATE Modifier

8IFO VTJOH BT B NPEJGJFS GPS JO UIF PQUJPOT GJMF BEE BU MFBTU PO LFZXPSE JO UIF '&"563& PS */$3&.&/5 MJOF

$POTJEFS UIF GPMMPXJOH UXP */$3&.&/5 MJOFT

ˆh †‡•‘ h\e jh^†‡…^iehn l °j³\\\´j
ˆh †‡•‘ h\e je^•‘˜^iehn l °j³\\\´j

"OE UIF GPMMPXJOH PQUJPOT GJMF MJOF

ˆh[°je^•‘˜^iehn „‘„

#FDBVTF CPUI JOTUBODFT PG G BSF JO UIF TBNF MJDFOTF QPPM UIF BCP

*O PSEFS UP JODMVEF KVTU UIF FBSMJFS FYQJSJOH MJDFOTF FOTVSF FBD QPPMJOH LFZXPSE OTVDI BGTPS FYBNQMF

ˆh †‡•‘ h\e jh^†‡…^iehn l O °jjh^†‡…^iehnj °j³\\\´j
ˆh †‡•‘ h\e je^•jG Opð‘³X ` ‡‘v F @F QU OQJ U XISE TC Cq0W E Ð 7 Ð OS ``F TE

O ˆ‡ƒ––ƒ’‰‹›™‘°˜ƒŽ—‡›’‡‡•ƒ•‡ v ‰”‘—’Ü•ƒ•‡

*ODMVEFT B VTFS PS QSFEFGJOFE HSPVQ PG VTFST JO UGIF BMJUTUF PGOXIPOJFT
JO BO O TUBUFNFOU JT OPU BMMPXFE UIF CPSTVRXF SMTIEFOTFT
DPOGMJDUT CFUXFFO UIFJ MJTU BOE UIF MJTU BSF SFTPMWFE CZ UIF LJOH
QSFDFEFODF

'PS FYBNQMF UIF GPMMPXJOH PQ-Ü•JJPOO UTIZFOWJBTYUJPGDWTES T YTCHMSF UP CPSSPX

O ˆh –‘•

/PUF • 'PS O GFBUVSFT B VTFS PS QSFEFGJOFE HSPVQ PGJVTUFST
BOE BO O MJTU UP CPSSPX B GFBUVSF

INCLUDE_ENTITLEMENT

5IJT PQUJPO POMZ BQQMJFT UP MJDFOTFT IFME JO USVTUFE TUPSBHF

O ‡•–‹–Ž‡•‡•– † –›’‡ ‡•ƒ•‡ v ‰”‘—’O•ƒ•‡ˆ

*ODMVEFT B VTFS PS QSFEFGJOFE HSPVQ PG VTFST JO UIF MJTU PG XIP JT
GVMGJMMNFOU SFDPSE IFME JOO USVTUTFVEQTFSPSBHFO DPOGMJDUT
CFUXFFO UIFO MJTU BOE UIF MJpT@JUBTSPPMSVFTT‰•MEWdaEWñCZñUIpFBy 2‘rp*8€

'PS FYBNQMF UIF GPMMPXJOH PQUJPOT JODMVEFT UIF VTFS

'PS FYBNQMF UIF GPMMPXJOH PQUJPOT JOEJDBUF UIBU BMM GVMGJMMNFOU SFDPSET IFME JO USVTUFE TU
MJDFOTFT QSPWJEFE JO BMM GVMGJMMNFOU SFDPSET IFME JO USVTUFE UP

O —•*f*•

ˆh jmee

5IF BDUVBM MJOHFS UJNF WBSJFT TPNFXIBU TJODF UIF WFOEPS EBFNPO DI
NJOVUF "MTP JG B OFX MJDFOTF SFRVFTU JT NBEF UIBU XPVME PUIFSXJTF
NBEF JNNFEJBUFMZ UP BUUFNQU UP TBUJTGZ UIF OFX SFRVFTU

MAX

5IJT PQUJPO BQQMJFT UP DPODVSSFOU MJDFOTFT IFME JO MJDFOTF GJMFT

•—•UŽ‹… ˆ‡ff[‡→™‡‘°†ƒŽ—„‡›’‡‡•ƒ•‡v ‰”‘—’U•ˆƒ•‡

-JNJUT VTBHF GPS B VTFS PS HSPVQ

/PUF8ł FO UIJT PQUJPO JT VTFE GPS B HSPVQ JU MJNJUT UIF VTBHF GPS B
UIBU HSPVQ

Table 13-21 • ."9 5FSNT

Term	Description
OVN@MJD	6TBHF MJNJU GPS UIJT VTFS PS HSPVQ
GFBUVSF	'FBUVSF PS QBDLBHF UIJT MJNJU BQQMJFT UP
LFZXŘ8VBMVF	'FBUVSF OBNF NPEJGJFS UP EFOPU4FQB DHJGZJOH GMUSG GPS EFUBJMT
UZQF	0OF PG YPS O \4FF 4QFDJGZJOH -JDFOTF 3FTUSJDUJPOT GPS EFUBJMT JOH 5ZQF
OBNF	/BNF PG BO JUF-N'‡PGGPSUZXQJFDI VTBHF JT MJNJUFE 5P BWPJE IBWJOH UPMSHEFNBUUIQMF UJNFT UP SFTUSJD VTF POFMJOF UIBU TQFDJGJFTUIF WBMVE GPSGUPSF UZQF FYBNQMF O 4FF6GRS BOE (3061 &NPSEQMFT JOGPSNBUJPO
HSPVQ@OBNF	/BNF PG UIF HSPVQ UP MJNJU (SPVQ OBNFT VU 0 À MJ

USER and GROUP Examples

5IF GPMMPXJOH BSF FYBNQMBEE PGUZQFOHDSFQUJPO

/PUF/•WFS QPTJUJMJFOFBUIBU SFXTVHSJEQUGPHS B TQFDJGJD GFBUVSF -JLFXJMFOFUWFS QPTUSXJEQTBPHS B
TQFDJGJD GFBUVSF 5IF QPTJUJP
UIF SFTUSJDUJPO JO UIF MBUFS MJOF

‡ 5P MJNJU Œf/FUVTGJWF MJDFOTFTJGDPSVEFBUMFSGPMMPXJOH MJOF JO UIF P

```
l ^h     Œf•
```

‡ 5P MJNJU BMM VTFST UP GIJWFONDJMVFOTFUTFGPSMGFBXJOH MJOF

```
l ^h       O
```

‡ 5P MJNJU Œf/FUVTGJWF MJDFOTFBOEPSMGFBUVSF VTFST UP GPVS MJDFOTFT
JODMVEF UIF GPMMPXJOH MJOFT

```
l ^h     Œf•
k ^h       O
```

‡ 5P MJNJU HSPVQ MJDFOTFBOEPSMFBUVSF HSPVQT UP POF MJDFOTF G
JODMVEF UIFTF MJOFT

```
j ^i
h ^i       O
```

‡ *G ZPV BUUFNQU UPMQOFTJUJBUOTQFDJGJSFT CFGPSFMJOF UIBU TQFDJG
TJOHMF VTFS PS TJOHMF HSPVQ 'MFY/FU 1VCMJTIFS DBOOPU FOGPSDF
VTFS PS HSPVQ JO UIF TFDPOE MJOFVQJOJUIBTQBSTFSPGUIF JO UIF GJSTU
MJOF

'PS FYBNQMF UIF GPMMPXJOHWBMJE QPTJUJPOJOH JT

```
h ^i       O
j ^i
```

O O ˆ‡ƒ––—ƒ’‚ ‡›™‘°˜ƒŽ—‡—•UŠ‘—”•

$IBOHFT UIF NBYJNVN QFSJPE B MJDFOTF DBO CF CPSSPXFE GSPN BOPUIFS TQ
OFX QFSJPE NVTU CF MFTT UIBO UIBU JOD UIF OMJDFOTF GJMF POMZ UIF MBTU‡ƒP—O—F’‡JT BQQMJFE UP

MAX_CONNECTIONS

5IJT PQUJPO MJNJUT UIF NBYJNVN OVNCFS PG DPOOFDUJPOT XJUI WFOEPS

0O OPO 8JOEPXT 104*9 DPNQMJBOU QMBUGPSNT UIF WFOEPS EBFNPO XJN
GPMMPXJOH BOE TZTUFN-JNJU DFSUBJO3FTFSWF XJMM CF VTFE BT UIF N

‡ HFUSMJNJU DBMM XJMM CF NAAT

‡pTM

O ˆ‡ƒ—ƒ’[‹‡›™‘°†ƒŽ—„‡—•UŽ‹…

-JNJUT MJDFOTF VTBHF CFMPXMIFXFE CZ UIF MJDFOTF GJMF

Table 13-24 • .”9@07&3%3”'5 5FSNT

Term	Description
GFBUVSF	'FBUVSF UIJT MJNJU BQQMJFT UP
LFZXPSWBMVF	'FBUVSF OBNF NPEJGJFS UP EFOPUFQBDHSGZJQIGFMUVSG GPS EFUBJMT
OVN@MJD	6TBHF MJNJU GPS UIJT VTFS PS HSPVQ

NOLOG

4VQQSFTTFT MPHHJOH UIF TFMFDUFE UZQF PG FWFOU JO UIF EFCVH MPH G

‡ v v v v ˆ

Table 13-25 • /0-0(5FSNT

Entry	Description
NOLOG IN	5VSOT PGG MPHHJOH PG DIFDLMJOFTXBPSFSQFRSVBUIFE UP UVSO PGG MPHHJOH PG DIFDLPVUT JODMVEJOH $0"7"*- SI SFRVFTUT
NOLOG OUT	5VSOT PGG MPHHJOH PG DIFDLPVUT
NOLOG DENIED	5VSOT PGG MPHHJOH PG DIFDLPVUT BOE RVFVFE SFRVFTU
NOLOG QUEUED	BENJOJTUSBUPST VTF UIJT PQUJPO UP SFEVDF UIF TJ[F P)PXFWFS JU DBO SFEVDF UIF VTFGVMOFTT PG UIF EFCVH MJDFOTF TFSWFS QSPCMFNT
NOLOG UNSUPPORTED	4VQQSFTTFT NFTTBHFT JO UIF EFCVH MPH 5IJT TVQQSF FTSTSP4SB$JU DDÐJO UIF E•F TJ[BESDEÐ[p 6DJO FPÐ[rp O

See Also
MNTXJUDI
1SPHSBNNJOH 3FGFSFODF GPS -JDFGOTS EJFMUFBJ#MTTOBECP-YDIEOITFJGOMHB H

REPORTLOG

TQFDJGJFT UIF SFQPSU MPH GJMF GPS UIJT WFOEP”S‡’E”BŽ‘‰OD’ƒ–UŠ JT XJUI BDIBSBDUFS UP BQQFOE MPHHJOH FOUSJFT PUIFSXJTF UIF GJMF JT P

ƒ±„”‡’‘”–UŽ‘‰U’ƒ–Š ƒ U •‡”„

Table 13-26 • 3&4&37& 5FSNT

Term	Description
HSPVQ@OBNF	/BNF PG HSPVQ GPS XIJDI MJDFOTF VTBHF JT SFTFSWFE TFOTJUJWF

'PS FYBNQMF UIF GPMMPXJOH PQUJPO TZOUBYPSFTFSWFNTPOF MJDFOTF PG

h ^h •‡Ž

*G ZPV XBOU UP SFTFSWF B MJDFOTF GPS TQFDJGJD HSPVQT PS HSPVQ ZPVMUTFS PS HSPVQ *G B QBDLBHF OBNF JT TQFDJGJFE BMM DPNQPOFOUT UIB

5IF LFZXPSE TIPVME OPU CF VTFE PO QBDLBHFT BOE QBDLBHF TVJUFT PQUJPO 5IFLFZXPSE JO UIF PQUJPOT GJMF JODMVEFT TUBUJD JOGPSNBUJ O PQUJPO SFTFSWFT B TFU PG QBDLBHF DPNQPOFOUT 0ODF POF Q UIF PUIFS DPNQPOFOUT BSF SFTFSWFE GPS UIBU TBNF VTFS 8IFO UIF MJD O PQUJPO XJUIJO UIF 1BDLBHF XJMM EJDUBUF BEEJUJPOBM SFTFSW EFQFOEJOH PO UIF QSPEVDU VTBHF QBUUFSO #FDBVTF UIFTF PQUJPOT QSF OPU CF VTFE UPHFUIFS 5IF UPUBM OVNCFS PG SFTFSWBUJPOT TVQQPSUFE

/PUF"⊙Z MJDFOTFT SFTFSWFE GPS B VTFS BSF EFEJDBUFE UP UIBU VTFS & MJDFOTF JU JT VOBWBJMBCMF UP PEUMFSDVTTFSTEP)PTXEWFSDBVTF VTBHF UP 'MFY/FU .BOBHFS JG UIF MJDFOTF JT OPU BDUVBMMZ JO VTF

TIMEOUT

5IJT PQUJPO BQQMJFT UP DPODVSSFOU MJDFOTFT IFME JO MJDFOTF GJMFT

^‡ƒ––ƒ'[‹‡›™‘°˜ƒŽ—‡‡…‘•†•

4FUT UIF UJNF BGUFS XIJDI BO JOBDUJWF MJDFOTF JT GSFFE BOE SFDMBJN

/PUF5♦F TPGUXBSF QVCMJTIFS NVTU IBWF FOBCMFE UIJT GFBUVSF JO UIF 'M $POUBDU ZPVS TPGUXBSF QVCMJTIFS UP GJOE PVU JG UIJT GFBUVSF JT JN

Table 13-27 • 5*.&065 5FSNT

Term	Description
GFBUVSF	/BNF PG UIF GFBUVSF
LFZXPSEVBMVF	'FBUVSF OBNF NPEJGJFS UP EFOPUAFQBDHJSPVQ IPGFMUIVSG GPS EFUBJMT

Rules of Precedence in Options Files

3VMFT PG QSFDFEFODF UBLF[illegible] DPNCJOFE JO UIF TBN
DPOUSPM BDDFTT UP UIF TBNF GFBUVSF JO MJDFOTF GJMFT PS GVMGJMM
UIF QSFDFEFODF XIFO CPUI UZQFT PG TUBUFNFOUT BQQFBS UPHFUIFS

‡ *G UIFSF JT POMZ BO FWFSZPOF XIP JT OPU PO UIF MJTU JT BMMPXFE U

‡ *G UIFSF JT POMZ POMZ UIPTF VTFST PO UIF MJTU BSF BMMPXFE UP

‡ *G OFJUIFS MJTU FYJTUT FWFSZPOF JT BMMPXFE UP VTF UIF GFBUVSF

S@` GFBU@SF

14

ˆh •ƒ•'Ž‡† h\eee jh^†‡…^ieie l °\\\\\
ˆi •ƒ•'Ž‡† h\eee jh^†‡…^ieie l °\\\\\

‡ For tok Ŏ ”% #Ш ľ or tok Ŏ%58 ł "Ô Ó ˛ Ë Ù ˛)>Ü ŧsШ Ì Æ ˢ Ý)> Ì ŧsШ74%0% ą"Ô Õ Ä Í Ö ł ŧ ɗ dž Å Å dž ˛ £

0ODF UIF JOJUJBM DPNNVOJDBUJPO IBT CFFO FTUBCMJTIFE FBDI MJDFOTF
PUIFST)FBSUCFBUT BSF NFTTBHFT TFOU PWFS 5$1 *1 &BDI MJDFOTF TFSW
SFTQPOTF GSPN UIF PUIFS MJDFOTF TFSWFST *G B MJDFOTF TFSWFS EPFT
EBFNPO TP UIBU JU DBOOPU TFSWF MJDFOTFT " QVCMJTIFS PS MJDFOTF B
MJDFOTF TFSWFS XBJUT UP SFDFJWF B IFBSUCFBU QSPUPDPM VTJOH UIF

1PPS OFUXPSL DPNNVOJDBUJPO DBVTFT TZTUFN QFSGPSNBODF UP TMPX 4
B EFMBZ JO UIF USBOTNJTTJPO PG IFBSUCFBUT CFUXFFO MJDFOTF TFSWFS

Configuring License Servers for Three-Server Redundancy

1FSGPSN UIF GPMMPXJOH TUFQT UP DPOGJHVSF UISFF TFSWFS SFEVOEBOD

#FGPSF PCUBJOJOH UIF MJDFOTF TFSWFS TPGUXBSF QBDLBHF GSPN UIF
TZTUFNT 8IFO TFMFDUJOH TZTUFNT NBLF TVSF UIFZ BSF TUBCMF %P O
SFCPPUFE PS TIVU EPXO

4FOE UIF QVCMJTIFS UIF IPTUOBNF BOE IPTUJE WBMVFT GPS UIFTF TZTU
JEFOUJGJFS UIFZ OFFE GPS UIF IPTUJE 5IJT DPVME CF BO &UIFSOFU BE
XJMM DSFBUF MJDFOTF TFSWFS DPNQPOFOUT TQFDJGJDBMMZ GPS UIFTF

.BOBHJOH -JDFOTF 4FSWFST JO B 5ISFF 4FSWFS 3F

'MFY/FU 1VCMJTIFS 3 -JDFOTF "ENJOJTUSBUJPO (VJEF '/1 -"($PNQBOZ $POGJEFOUJ

*O UISFF TFSWFS TDFOBSJPT B TZTUFN BENJOJTUSBUPS NBZ XJTI UP TIVU
NBJOUFOBODF PO JU XIJMF UIF PUIFS UXP TFSWFST NBJOUBJO B RVPSVN
TIVUUJOH EPXO B MJDFOTF TFSWFS PS UIF FOUJSF US
TZTUFN BENJO OF PG UIF NBDI
TFSWFS MJDFOTF GJMF BOE QSPWJEF B QSPNQU BTLJOH XIJDI PG UIF UIS

Using Multiple Vendor Daemons

5IF MJDFOTF TFSWFS NBOBHFS DBO PQU TUBSU WFOEPS EBFNPOT GSPN NVMU
XIFO DPOGJHVSFE GPS UISFF TFSWFS SFEVOEBODZ 5IF MJDFOTF TFSWFS N
*G POF PG UIF TZTUFNT SVOT NPSF UIBU POF WFOEPS EBFNPO UIFO UIF M
JOTUBODFT PG UIF MJDFOTF TFSWFS PO UIBU TZTUFN UP TVQQPSU UIF PUI
OVNCFST EP OPU DMBTI

Switching Between Three-Server Redundancy and Single-Server Configuration

8IJMF SVOOJOH UIF MJDFOTF TFSWFS NBOBHFS JO UIF TJOHMF TFSWFS DPOG
SFEVOEBODZ UP B TJOHMF TFSWFS DPOGJHVSBUJPO BOE WJDF WFSTB 5P
GPMMPXJOH

4IVU EPXO UIF MJDFOTF TFSWFS NBOBHFS JO UIF TJOHMF TFSWFS DPOG
UIF MJDFOTF TFSWFS NBOBHFST DVSSFOUMZ SVOOJOH

%P POF PG UIF GPMMPXJOH

‡ 'PS•ƒ†•‹•

B 'SPN U•ƒ†•‹JOTUBMMBUJPO EJSFDUPSZ PO B HJWFO NBDIJOF JNQPS
OFX DPOGJHVSBUJPO UP XIJDI ZPV BSF TXJUDIJOH FJUIFS UIF UIS
DPOGJHVSBUJPO

•ƒ†•‹• ^‹•'‘"– ³•‡™O‹…‡••‡O^‹‡O‹••–´ ^^‘"…‡

FS pä“œ C-y,$FPTU B S U •F J“•°•

15

Using the UUID Hostid

O HFOFSBM UIF QSPDFTT GPS CJOEJOH UP UIF 66% PG UIF WJSUVBM NBD
PVUMJOF 5IF QSPDFŽ•Š‘–—˜™VJNBFU ZUIF

5BTL 5P CJOE UP UIF 66*% PG UIF WJSUVBM NBDIJOF IPTUJOH UIF MJDFOTF TF

*EFOUJGZ UIF WJSUVBM NBDIJOF PO XIJDI UIF MJDFOTF TFSWFS XJMM C

3VO UIF GPMMPXJOHSHPDNPUNFBOENNBOE MJOF PG UIF WJSUVBM NBDIJOF

Ž•Š‘•–‹† ^'–›'‡ ^——‹†

4FOE UIF PVUQVU PG UIJT DPNNBOE UP UIF TPGUXBSF QVCMJTIFS 5IF T
DFSUJGJDBUF JO XIJDI UIF MJDFOTF TFSWFS JT CPVOE UP UIF 66*% WBM

.PEJGZ UIF MJDFOTF DFSUJGJDBUF UP DPOGJHVSF TFSWFS QBSBNFUFST
QBSBNFUFST

-BVODI UIF MJDFOTF TFSWFS PO UIF WJSUVBM NBDIJOF CZ QPJOUJOH UP

/PUF*G UIF MJDFOTF TFSWFS IBT UP CF NPWFE UP BOPUIFS QIZTJDBM NB
JNBHF BOE NPWF JU UP UIF OFX QIZTJDBM IPTU NBDIJOF

Setting Up a Virtual License Server on VMware ESXi or XenServer

5IF QSPDFTT PG TFUUJOH VQ B MJDFOTF TFSWFS PO B WJSUVBM NBDIJOF I
EFQFOET PO UIF IPTUJE DIPTFO UP CJOE UIF MJDFOTF GJMF UP UIF MJDFO
NBDIJOFzT 66*% 6OJWFSTBMMZ 6OJRVF *% PS UIF IPTUJE PG B SFNPUF QI
WJSUVBM NBDIJOF 5IF GPMMPXJOH TFDUJPOT EFNPOTUSBUF UIFTF UXP CJ

*G ZPVS MJDFOTF TFSWFS WJSUVBM NBDIJOF JT CFJOH IPTUFE CZ B 7.XBSF

Using the UUID Hostid

O HFOFSBM UIF QSPDFTT GPS CJOEJOH UP UIF 66% PG UIF WJSUVBM NBD
PVUMJOF 5IF QSPDFŽ•Š‘–—˜™VJNBFU ZUIF

5BTL 5P CJOE UP UIF 66*% PG UIF WJSUVBM NBDIJOF IPTUJOH UIF MJDFOTF TF

4FOE UIF PVUQVU PG UIJT DPNNBOE UP UIF TPGUXBSF QVCMJTIFS 5IF T
DFSUJGJDBUF JO XIJDI UIF MJDFOTF TFSWFS JT CPVOE UP UIF 66*% WBM

.PEJGZ UIF MJDFOTF DFSUJGJDBUF UP DPOGJHVSF TFSWFS QBSBNFUFST
QBSBNFUFST

-BVODI UIF MJDFOTF TFSWFS PO UIF WJSUVBM NBDIJOF CZ QPJOUJOH UP

/PUF*G UIF MJDFOTF TFSWFS IBT UP CF NPWFE UP BOPUIFS QIZTJDBM NB
JNBHF BOE NPWF JU UP UIF OFX QIZTJDBM IPTU NBDIJOF

Hypervisor COS Use

3VOOJOH B MJDFOTF TFSWFS PS B 'MFY&OBCMFE DMJFOU BQQMJDBUJPO PO
MJDFOTF TFSWFS BOE 'MFY&OBCMFE DMJFOU BD • PO SWFEPUI PP U@ p•ZF

16

‡ /PU FBTJMZ DIBOHFE CZ UIF VTFS

‡ /PU VTBCMF XIFO UIF MJDFOTF JT PVUTJEF UIF DMPVE

'MFY/FU 1VCMJTIFS QSPWJEFT MJDFOTJOH TPMVUJPOT UIBU NFFU UIFTF CJ
BSF CBTFE PO UZQJDBM MJDFOTJOH VTF DBTFT JO B DMPVE FOWJSPONFOU
TVQQPSU GPS UIJT SFMFBTF

Scope of Support for Cloud Licensing

'MFY/FU 1VCMJTIFS MJNJUT JUT TVQQPSU GPS DMPVE MJDFOTJOH UP CJU
-JOVY NBDIJOF JOTUBODFT BMM JO *1W GPSNBU GPS SVOOJOH 'MFY&OBC

"EEJUJPOBMMZ 'MFY/FU 1VCMJTIFS MJNJUT JUT TVQQPSU GPS DMPVE MJDFOTJOH

‡ $SPTT WFSTJPO TJHOBUVSFT PO TFSWFE OPEF MPDLFE MJDFOTF DMJFO

‡ $PNQPTJUF IPTUJET VTJOH "NB[PO NBDIJOF CJOEJOHT

‡ 5ISFF TFSWFS SFEVOEBODZ

/PUF $MPVE FOWJSPONFOUT IBWF PUIFS NFUIPET UIBU DPNQFOTBUF GPS
BWBJMBCJMJUZ PG UIF MJDFOTF TFSWFS

Hostids for Binding

5IF CJOEJOH FMFNFOU VTFE UP CJOE B MJDFOTF UP UIF TQFDJGJD ".* JOTU
TFSWFS SFTJEFT JT DBMMFE UIF

/PUF5‧F 4ZTUFN *OGP QBHF JO UIF MNBENJO VTFS JOUFSGBDF EPFT OPU TI
&$ FOWJSPONFOU 5P PCUBJO UIFTF IPTUJET ZPV NVTU VTF UIF NFUIPET

Table 16-2 • 3FUSJFWJOH BOE 4QFDJGZJOH)PTUJET

Hostid Type	Method to Obtain ID	License File Syntax
Elastic IP (EIP) address (AMZN_EIP)	6TF FJUIFS NFUIPE ‡ 0O UIF ".* JOTUBODF DP‴Q,U@B&01J3HWUIBEEESFTT TFSWFS SVO UIF GPMMPXJOH DPNNBOE Ž•Š‘•–‹† ^'–›'‡ ^‡‹' ‡ 0CUBJO UIF &*1 GSPN UIF "NB[PO JOGSBTUSVDUVSF 5IJT MNIPTUJE DPNNBOE BDUVBMMZ SFUVSOT UIF QVCMJD *1 BEESFTT GPS UIF ".* JOTUBODF BOE UIJT WBMVF NJHIU OPU BMXBZT CF UIF &*1 BEESFTT $POTJEFS UIF GPMMPXJOH • *G UIF ".* JOTUBODF JT BTTPDJBUFE XJUI BO &*1 BEESFTT UIF &*1 BEESFTT JT UIF QVCMJD *1 BEESFTT $POTFRVFOUMZ MNIPTUJE SFUVSOT UIF &*1 BEESFTT • *G UIF ".* JOTUBODF IBT OP &*1 BEESFTT BTTPDJBUFE XJUI JU &$ BTTJHOT B EFGBVMU QVCMJD *1 BEESFTT XIJDI JT UIF WBMVF UIBU MNIPTUJE SFUVSOT 'MFY/FU 1VCMJTIFS TUSPOHMZ SFDPNNFOET PCUBJOJOH UIF &*1 BEESFTT 5P FOTVSF MNIPTUJE SFUVSOT UIJT WBMVF BTTPDJBUF UIF JOTUBODF XJUI BO &*1 BEESFTT CFGPSF SVOOJOH UIF DPNNBOE *G OFDFTTBSZ DPOTVMU "NB[PO GPS IFMQ XJUI UIJT QSPDFTT	6\QWD[".;/@".DGA‰ .MB.- @ Ž•Š‘•–‹† ^'–›'‡ ^ƒ•‹
AMI template ID (AMZN_AMI)	"T TPGUXBSF QVCMJTIFS NFUIPE ‡ 0O UIF ".* JOTUBODF VTFE GPS UIF 7" SVO UIF GPMMPXJOH DPNNBOE Ž•Š‘•–‹† ^'–›'‡ ^ƒ•‹ ‡ 0CUBJO UIF UFNQMBUF *% GSPN UIF "NB[PO JOGSBTUSVDUVSF	6\QWD[UIFS

VM_UUID (AMI instance IID)

6TF FJUIFS NFUIPE 6\QWD[

‡ 0O UIF ".* JOTUBODF DP[illegible]

DPNNBOE *OTBO 0 `

Ž•Š‘•–‹† ^'–›'‡ ^——‹†

‡ 0CUBJO UIF JOTUBODF *% GSPN UIF "NB[PO JOGSBTUSVDUVSF

17

IPv6 Support

*OUFSOFU 1SPUPDPM WFSTJPO *1W JT UIF OFYU HFOFSBUJPO *1 QSPUP
TPGUXBSF QVCMJTIFST XIP XBOU UP TVQQPSU *1W BEESFTTFT JO UIFJS M
BTTVNFT UIF SFBEFS IBT B GBNJMJBSJUZ XJUI UIF *1W OFUXPSLJOH QSPU

5IF GPMMPXJOH TFDUJPOT PG UIJT DIBQUFS EFTDSJCF UIF 'MFY/FU 1VCMJT
SFMBUFE UP CPUI MJDFOTF GJMFwCBTFE MJDFOTJOH BOE USVTUFE TUPSBH

‡ [illegible] 1 1W ‡$T FH *@0@JO 'JF

5IF GPMMPXJOH LFZXPSET VTFE XJUI EVQMJDBUF HSPVQJOH TVQQPSU *1W

‡ 5IF O LFZXPSE VTBHUIF UZQF

‡ 5IF O O LFZXPSE VTJBCTHUIF UZQF

Options File

"O PQUJPOT GJMF DBO DPOUBJO BO *1W BEESFTT UP TQFDJGZ IPTU SFTUS

‡ UZQF JO UIFTF LFZXPSET O O
BOE

‡ UZQF JO UIFTF LFZXPSETD O
O O BOE

‡ O LFZXPSE JU UBLFT *1 BEESFTTFT

License Search Path

&OUSJFT JO UIF MJDFOTF TFBSDI QBUI UIBU VTF UIF yQPSU!IPTUz DPOWFOU
*1W BEESFTT BT UIF yIPTUz WBMVF

FlexEnabled Application

D”•– &OU®JFT JBEEUSFTMJBTFOUIF MFBSXDŠ‘QBUIWUHBUJVPTOF UHFJEFOUJGZ UIF MJDFOTF

Environment Variables

-JTUFE CFMPX BSF UIF FOWJSPONFOU WBSJBCMFT UIBU IBOEMF QFSGPSNB

FNP_IP_ENV

5IJT DMJFOU TJEF FOWJSPONFOU WBSJBCMF EFUFSNJOFT IPX UIF DMJFOU

‡ *G UIF WBSJBCMF JT TFU UP B WBMVF PG PS UIF *1 BEESFTT TFOU DMJFOU T IPTUOBNF BT GPMMPXT

‡ *G UIF WBSJBCMF JT TFU UP UIFO UIF DMJFOU SFTPMWFT JUT IPTU

‡ *G UIF WBSJBCMF JT TFU UP UIFO UIF DMJFOU SFTPMWFT JUT IPTU

‡ *G UIF WBSJBCMF JT TFU UP UIFO UIF DMJFOU SFTPMWFT JUT IPTU

‡ *G UIF WBSJBCMF JT TFU UP EFGBVMU WBMVF UIF DMJFOU TJEF IPTU DMJFOU T *1 BEESFTT JT EFUFSNJOFE GSPN UIF TPDLFU DPOOFDUJPO BU USBOTMBUFE *1 BEESFTT GPS UIF DMJFOU DBO CF PCUBJOFE

FNP_IP_PRIORITY

5IF FOWJSPONFOU WBSJBCMF DJEFT UIF *1 QSJPSJUZ GPS IPTUOBNF SFTPMV TFSWFS UIF DMJFOU

‡ **4** EFGBVMU IPTUOBNF SFTPMVUJPO JT BUUFNQUFE UP *1W BEESFTT G BUUFNQUFE

‡ **6** IPTUOBNF SFTPMVUJPO JT BUUFNQUFE UP *1W BEESFTT GJSTU JG UI BUUFNQUFE &YBNQMFT PG XIFO UP TFU UP UIJT WBMVF

‡ PO UIF NBDIJOF XI

‡ PO UIF DMJFOU JG OPEF MPDLFE *1W */5&3/&5)PTU*% JT VTFE

‡ PO UIF TFSWFS JG *1W BEESFTT JT VTFE JO UIF PQUJPOT GJMF PS B

/PUF *1W BOE *1W BEESFTTFT DBOOPU CF NJYFE PO UIF TFSWFS

Support Pure IPv6 for the Client

Using Wildcards in an IPv6 Address

5IF XJMEDBSE DIBSBDUFS |

18

Multiple Systems

Starting the License Servers Using the User Interface

5BTL 5P VTF UIF MNBENJO VTFS JOUFSGBDF UP TUBSU UIF MJDFOTF TFSWFST

"U B DPNNBOE QSPNQU GSPN UIF MBUJPO EJSFDUPSZ FOUFS UIF GPMMPX DPNNBOE MJOF PQUJPOT BSF SFRVJSFE

0QFO B DPNNBOE XJOEPX PO UIF NBDIJOF

'SPN UIF MNBENJO VTFS JOUFSGBDF DMJDL **Administration** UP PQFO TJHO JO XJUI ZPVS BENJOJTUSBUPS DSFEFOUJBMT

(P UP UIF 7FOEPS %BFNPO $POGJHVSBUJPO UBC

$MJDL **Import License File**

4FMFDU BOE JNQPSU UIF MJDFOTF GJMF

/PUF "• TUBUVT NFTTBHF EJTQMBZFE JO UIF MJDFOTF MJTUT BOZ GPMMPX VQ QFSGPSN BGUFS UIF JNQPSU *G UIF NFTTBHF SFRVFTUT UIBU ZPV TUBS **Administer** GPS UIF TQFDJGJD WFOEPS EBFNPO PO UIF 7FOEPS **Stop** **Start**

3FQFBU UIF JNQPSU QSPDFTT GPS FBDI MJDFOTF GJMF ZPV XBOU UP JNQ

$MPTF EPXO UIF VTFS JOUFSGBDF

3FQFBU UIF QSFWJPVT TUFQT UP TUBSU UIF MJDFOTF TFSWFS PO UIF OF

Starting the License Servers Using the Command Line

5BTL 5P VTF UIF DPNNBOE MJOF UP TUBSU UIF MJDFOTF TFSWFST

0QFO B DPNNBOE XJOEPX PO UIF NBDIJOF

"U B DPNNBOE QSPNQU GSPN UIF MBUJPO EJSFDUPSZ FOUFS UIF GPMMPX

MJDFOTF TFSWFS

/PUF6 TF UIF PQUJPO BMPOH XJUI ZPVS XJTI UP SFTFU JO

‡ :PV NVTU NBLF TVSF UIBU ZPV BSF VTJOH • • •

XIFSF

‡ ³Š––’ ‘”–JT UIF 5$1 *1 QPSU OVNCFS UIBU UIF XFC TFSWFS VTFT UP MJT
DPOOFDUJ[ŽH‹fU•R•VTIFFS JOUFSGBDF 8IJMF JT UIF EFGBVMU QPSU OV
NVTU QSPWJEF B EJGGFSFOŽ•fQ‹P•SUO TUVBNCDFS [HPVS BFSHE DPOGJHVSJOH

‡ ³Š––’• ‘”–JT UIF 5$1 *1 QPSU OVNCFS GPS UIF 4FDVSF 8FC 4FSWFS :PV
OVNCFS GŽ[Sf‹F•BDO TUBODF ZPV BSF DPOGJHVSJOH

*NQPSUAN QOFUD•JG^Z™U„JF…—”PQ’UJPO POMZ JG ZPV BSF DPOGJHVSJOH BO)
DPNNVOJDBUJPŽO‹fX‹•J‹‹XIFCIFFSWFS JOUFSGBDF 5P EFGJOF BEEJUJPOBM
4FDVSF 8FC 4FSWFŽ•‹fB•DVFFS JOUFSGBDF VTJOH UIF³SD-PSSFDUO63- CBT
UIF "ENJOJTUSBUJPO SecureWeb Server UPFDUFJPO PG UIF 4FSWFS $POGJHVSB
JOTUSVDUJOTF TJFH UIF -JDFOTF 4FSWFS JO SBBHQNFSU *-JDFOTFD4FS
.BOBHFS |MNBENJO}

:PV DBO BMTP TQFŽ•JfG‹Z‹PBQUZJPOTFZPV NJHIU OFFE UP TUBSU UIF MJDFOTF
PQUJPOTMNBEENJO $PNNBOE MJOF "SHVNFOUS JO $IBQUFS -JDFOTF 4FSV

3FQFBU UIF QSFWJPVS TŽU‹fQ•JOTUBSBU FOR UIF NBDIJOF

Using lmgrd

5BTL 5P TUBSU UIF MJDFOTF TFSWFST

0O UIF NBDIJOF JOWPLF FBDI MJDFOTF TFSWFS

‡ 'PS 4FSWŽF%S”† ^… ˜‡•†‘”O OŽ‹…‡••‡O†‹”OŽ‹••–

‡ 'PS 4FSWŽF%S”† ^… ˜‡•†‘”O OŽ‹…‡••‡O†‹”OŽ‹••–

‡ 'PS 4FSWŽF%S”† ^… ˜‡•†‘”O OŽ‹…‡••‡O†‹”OŽ‹••–

XIFS˜H‡•†‘”O•••OŽ‹…‡••‡JOŽB•MJTU PG MJDFOTF.EGJMFTOBT.EFTUDSJCFEJDFOTF 'JM
Ž•‰”TUBSUT UIF WFOEPS EBFNPO SFGFSSFE UP JO JUT MJDFOTF GJMFT

One System with One License Server and Multiple License Files

*O UIJT TDFOBSJP POF MJDFOTF TFSWFS NBOBHFS SVOT PO UIF TZTUFN BO
XJUI POF PS NPSF MJDFOTF ŽG‹JM•F•TZP*VGDZEPV NBEJFOVBJOHMJDFOTF GJMFT GSPN
TFQBSBUF EJSFDUPSJFŽT‰*GBMVMBSFMVJDFOTF GJMFT BSF VTVBMMZ IFME JO
TUBOEBSE GJMFOBNF FYUFOTŽ‹..GIGPSVMCDFSOTG WFMEPSTEBFNPOT JT OPU M
1VCMJTIFSSF JMMVTUSBUFT UIJT TDFOBSJP

Figure 18-3: ' J F€H ŒE € 4@ S U4p V U H 4ä• C ð J M € ð € '] P Q ' S O

Using lmgrd

5BTL 5P TUBSU UIF MJDFOTF TFSWFS

&OUFS UIF GPMMPXJOH DPNNBOE

Ž•‰”† ^… ³…‘••‘•OŽ‹…‡••‡O†‹”‡…–‘”›´

XIFSF DPNNPO@MJDFOTF@IJTUT@EJSFDUPSZ DPOUBJOJOH UIF .VMUJQMF -JDFOTF 'JMFT GJMFT
.VMUJQMF -JDFOTF 'JMFT #Z TQFDJGZJOH UIF EJSFDUPSZ ZPV EP OPU OF
Ž•‰”DPNNBOE MJOF

Ž•‰”QSPDFTTFT BMM\ŽGJMFT XJUIOUIO UIF EJSFDUPSZ BOE UIFO TUBSUT BM
GJMFT SFGFS

See Also

.BOBHJOH .VMUJQMF -JDFOTF 'JMFT
$BQUVSJOH %FCVH -PH 0VUQVU GPS B 1BSUJDVMBS 7FOEPS %BFNPO

Managing Multiple License Files

"T EFTDSJCFE JO UIF QSFWŽJPV•TBTÆ‰JBOEMFCNVIMUJQMF MJDFOTF GJMFT 5
EJMFTF0 PVT @ JBOUFDàEMVJSPO UF E @`0àOBAEDð@0à@vUFõ@UT@T FPJTF@FUFõ@ƒ

‡ 5IF GVMM QBUI UP UIF MJDFOTF GJMF

‡ " EJSFDUPSZ DPOUBJOJOH POF PS NPSF MJDFOTF GJMFT XJUI B

‡ 5IF MJDFOTF TFSWFS QPSU 6TF POF PG UIF GPMMPXJOH

‡ "TTJHOJOH BO FYDFQUJPOBM 5$1 *1 QPSU OVNCFS BOE IPTU OBNF

Figure 18-4: 0OF MJDFOTF TFSWFS NBOBHFS POF MJDFOTF GJMF

Advantages

‡ " TJOHMF MJDFOTF GJMF UP BENJOJTUFS

‡ 0ODF UIF GJMFT BSF DPNCJOFE UIFSF JT MPX BENJOJTUSBUJWF PWFSIF

Disadvantage

‡ $BSFGVM QMBOOJOH NVTU CF HJWFO JO DPNCJOJOH MJDFOTF MJOFT GS JOJUJBMMZ BOE PWFS UJNF

Criteria for Combining License Files

:PVS QSPEVDUzT MJDFOTF GJMFT EFGJOF UIF MJDFOTF TFSWFS TZTUEN UCR

19

Troubleshooting

5IJT TFDUJPO EPDVNFOUT BSFBT PG UIF MJDFOTF TFSWFS UIBU IBWF HJWF

General Troubleshooting Hints

5IJT MJTU QSPWJEFT TPNF HFOFSBM EFCVHHJOH JOGPSNBUJPO

‡ 8IFO ZPV TUBSU UIF MJDFOTF TFSWFS CF TVSF UIBU ZPV EJSFDU UIF PV

‡

‡ %JE UIF TFSWFS TUBSU DPSSFDUMZ -PPL GPS B NFTTBHF TVDI BT

$PNQBOZ $POGJEFOUJBM '/1 -"('MFY/FU 1VCMJTIFS 3 -JDF

Ž•O…Š‡…^‹ƒ——¥”˜‡”•‹‘¥•—•UŽŸ‹“.—‡—‡UŸŽ\ƒ¥‰†—’‰”‘—’‰ƒ•••

XIFSF

Table 19-1 • MN@DIFDLPVU "SHVNFOUT

Argument	Description
feature	5IF SFRVFTUFE GFBUVSF
version	5IF SFRVFTUFE WFSTJPO 5IF MJDFOTF GJMF NVTU DPOUBJO E
num_lic	/VNCFS PG MJDFOTFT SFRVFTUFE 6TVBMMZ
queue_flag	*G OP RVFVFJOH *G RVFVF GPS MJDFOTF |CMPDLJOH} RVFVF *G RVFVF GPS MJDFOTFT CVU SFUVSO UP BQQMJDBUJPO |C
dupgroup_mask	*OEJDBUFT EVQMJDBUF HSPVQJOH BMTP DBMMFE MJDFOTF TI TIPXO ŽG–ƒ– ^ƒ

Level 3 Content (Version 6.0 or Later Only)

*G O JT TFU UP UIFO JO BEEJUJPO UP MFWFM BOE PVUQVU J
JT QSJOUFE FYQMBJOJOH IPX UIF MJDFOTF XBT HSBOUFE

•‡–‡•˜ O j
ƒ''
Š‡…•'—– •—……‡†‡†[^euhkimj o e
‹…‡••‡ ^‹Ž‡[\u•‡"˜–‡•–\Ž‹…
' •‡"˜‡" —•‡†
ƒ''o
Š‡…•'—– •—……‡†‡†[^hu mk n hie
‹…‡••‡ ^‹Ž‡[RŽ'…ƒŽŠ'•–
‹…‡••‡ ‡"˜‡" ƒ…Š‹•‡[RŽ'…ƒŽŠ'•–
ƒ''p
Š‡…•'—– •—……‡†‡†[^hu mk n hie
‹…‡••‡ ^‹Ž‡[•‡"˜–‡•–\Ž‹…
‹…‡••‡ ‡"˜‡" ƒ…Š‹•‡[R•'‡‡†›

/PUF UIBU UIF GFBUVSF OBNF BOE MJDFOTF LFZ BSF QSJOUFE BRŠ'P–OH XJUI
XFSF VTFE BOE IPTU OBNF PG UIF TFSWFS XIFSF BQQMJDBCMF

20

Error Codes

5IJT TFDUJPO EPDVNFOUT 'MFY/FU 1VCMJTIFS FSSPS NFTTBHFT JODMVEJO EFTDSJQUJPOT

Error Message Format

'MFY/FU 1VCMJTIFS FSSPS NFTTBHFT QSFTFOUFE CZ BQQMJDBUJPOT IBWF U JO UIF GPMMPXJOH UBCMF "O FSSPS NFTTBHF NBZ BMTP DPOUBJO PUIFS P

Table 20-1 • 'MFY/FU 1VCMJTIFS &SSPS .FTTBHF $PNQPOFOUT

Component	Description	Required
Error Number	" QPTJUJWF PS OFHBUJWF JOUFHFS UIBU J[redacted]EOUJGJFT UIF	
Error Text	4FOUFODF UIBU TVNNBSJ[FT UIF JTTVF	
Error Explanation	1BSBHSBQI UIBU FYQMBJOT UIF QSPCMFN BOE QSPWJEFT Q PS XPSLBSPVOET	
Minor Error Number	" QPTJUJWF JOUFHFS 5IFTF OVNCFST BSF [redacted]JRVF FSSPS BSF VTFE CZ TPGUXBSF QVCMJTIFST GPS N[redacted]F BEWBODFE BTTJTUBODF 5IFJS NFBOJOH JT OPU EPDVNFOUFE	
System Error Number	&SSPS DPEF MBTU TFU CZ UIF PQFSBUJOH TZTUFN	
System Error Explanation	4FOUFODF UIBU FYQMBJOT UIF TZTUFN FSSPS	

5IFTF FSSPS NFTTBHFT NBZ PDDVS JO UXP GPSNBUT BWBJMBCMF XJUI 'MFY DVTUPNJ[FE CZ UIF BQQMJDBUJPO

Format 1 (short)

Ž‡š ‡– ‡””‘” –‡Ž•U‡””¥•‹•‹‘”U•ƒ[•›•U‡””„€ ƒ›•U‡””‘”U–„‡š–

5IF FSSPS JOGPSNBUJPO NBZ CF NJTTJOH

Example

ƒ•h– …‘••‡…– –‘ Ž‹…‡••‡ •‡”˜‡” •ƒ…Š‹•‡ •^hlYhi[mh€ ‘••‡…–‹‘• ”‡ˆ—•‡†

Format 2 (long)

Ž‡š ‡– ‡””‘” –‡š–
Ž‡š ‡– ‡””‘” ‡š’Žƒ•ƒ–‹‘•
ƒ ’–‹‘•ƒŽ —’‘”–‹••‰ ‹•ˆ‘”•ƒ–‹‘•„
Ž‡š ‡– ‡””‘Ž‡U‡””¥•‹•‹‘”U•—ƒ\ ›•–‡• ””‘”[›•U‡””„‘ƒ⦛•–‡•U‡””‘”UQ‡š–

Example

ƒ••‘– …‘••‡…– –‘ Ž‹…‡••‡ •‡”˜‡” •›•–‡•
Š‡ •‡”˜‡” •Ž•‰”†€ Šƒ• •‘– „‡‡• •–ƒ”–‡† ›‡–Y ‘”
–Š‡ ™”‘•‰ ’‘”–RŠ‘•– ‘” Ž‹…‡••‡ ˆ‹Ž‡ ‹• „‡‹•‰ —•‡†Y ‘” –Š‡
’‘”– ‘” Š‘•–•ƒ•‡ ‹• –Š‡ Ž‹…‡••‡ ˆ‹Ž‡ Šƒ• „‡‡• …Šƒ•‰‡†\
‡ƒ––”‡[ˆh
‡”˜‡” •ƒ•‡[Ž‘…ƒŽŽŠ‘•–
‹…‡••‡ ’ƒ–Š[RŽ‘…ƒŽŽŠ‘•–[Ž‹…‡••‡\†ƒ–[\u‹\Ž‹…
Ž‡š ‡– ‡””‘”[^hlYhi\ ›•–‡• ””‘”[mh Q ‘••‡…–‹‘• ”‡ˆ—•‡†Q

Error Code Descriptions

5IF GPMMPXJOH UBCMF MJTUT UIF NPTU DPNNPO FSSPST QSPEVDFE CZ 'MF

Table 20-2 • &SSPS $PEFT

Error Code	Description
24	*OTVGGJDJFOU QSJWJMFHF UP DPNQMFUF JOJUJBMJ[BUJPO
23	"UUFNQU UP BDDFTT TFSWFS USVTUFE TUPSBHF GSPN DMJFOU BQ
22	4FSWJDF DPOGJHVSBUJPO PS EFQFOEFODZ JTTVF 4FF FWFOU MP
21	Ž…O^ SPSp D D @ @PEFT

Table 20-2 • &SSPS $PEFT

Error Code	Description
11	'SBNFXPSL TQFDJGJFE CZ CVOEMF *% XBT OPU MPBEFE
10	&SSPS DSFBUJOH QBUI GSPN 63-
9	&SSPS DSFBUJOH 63-
8	1BUI TUSJOH OPU TQFDJGJFE JO 65' GPSNBU
7	" DBMM UP MD@GMFYJOJU JT OPU BMMPXFE BGUFS B DBMM UP MD
6	"DUJWBUJPO VUJMJUZ IBT OPU'CFF'OŽ QSPUDIFTEEJWTHOHPOIMJCSBS BDUJWBUJPO VUJMJUZ DBOOPU CF GPVOE
5	6OBCMF UP BMMPDBUF SFTPVSDFT
4	*OJUJBMJ[BUJPO GBJMFE
3	6OTVQQPSUFE WFSTJPO PG UIF PQFSBUJOH TZTUFN
2	6OBCMF UP MPBE BDUJWBUJPO MJCSBSZ
1	6OBCMF UP GJOE BDUJWBUJPO MJCSBSZ
-1	$BOOPU GJOE MJDFOTF GJMF
-2	*OWBMJE MJDFOTF GJMF TZOUBY
-3	/P MJDFOTF TFSWFS TZTUFN GPS UIJT GFBUVSF
-4	-JDFOTFE OVNCFS PG VTFST BMSFBEZ SFBDIFE
-5	/P TVDI GFBUVSF FYJTUT
-6	/P 5$1 *1 QPSU OVNCFS JO MJDFOTF GJMF BOE 'MFY/FU -JDFOTJC POMZ
-7	/P TPDLFU DPOOFDUJPO UP MJDFOTF TFSWFS NBOBHFS TFSWJDF
-8	*OWBMJE JODPOTJTUFOU MJDFOTF LFZ PS TJHOBUVSF 5IF MJDFOTF LFZ TJHOBUVSF BOE EBUB GPS UIF GFBUVSF EP OPU MJDFOTF GJMF IBT CFFO BMUFSFE
-9	*OWBMJE IPTU 5IF IPTUJE PG UIJT TZTUFN EPFT OPU NBUDI UIF IPTUJE TQFDJGJ
-10	'FBUVSF IBT FYQJSFE

Table 20-2 • &SSPS $PEFT

Error Code	Description
-84	64&3@#"4&% MJDFOTF IBT OP TQFDJGJFE VTFST TFF MJDFOTF TF
-85	-JDFOTF TFSWFS TZTUFN EPFTOzU TVQQPSU UIJT SFRVFTU
-87	$IFDLPVU FYDFFET ."9 TQFDJGJFE JO PQUJPOT GJMF
-88	4ZTUFN DMPDL IBT CFFO TFU CBDL
-89	5IJT QMBUGPSN OPU BVUIPSJ[FE CZ MJDFOTF
-90	'VUVSF MJDFOTF GJMF GPSNBU PS NJTTQFMMJOH JO MJDFOTF GJ 5IF GJMF XBT JTTVFE GPS B MBUFS WFSTJPO PG 'MFY/FU -JDFOTJ
-91	&ODSZQUJPO TFFET BSF OPO VOJRVF
-92	'FBUVSF SFNPWŽF•E‡”E¥ŠPJSOXHSPOH 4&37&3 MJOF IPTUJE
-93	5IJT GFBUVSF JT BWBJMBCMF JO B EJGGFSFOU MJDFOTF QPPM 5IJT JT B XBSOJOH DPOEJUJPO 5IF TFSWFS IBT QPPMFE POF PS M QPPM BOE UIF SFRVFTU XBT NBEF PO BO */$3&.&/5 MJOF UIBU IB
-94	"UUFNQU UP HFOFSBUF MJDFOTF XJUI JODPNQBUJCMF BUUSJCVU
-95	/FUXPSL DPOOFDU GBJMFE $IBOH‹Š‹•OŠ‘P–O UIF 4&37&3 MJOF JO UIF MJDFOTF GJMF UP UIF BD
-96	-JDFOTF TFSWFS NBDIJOF JT EPXO PS OPU SFTQPOEJOH 4FF UIF TZTUFN BENJOJTUSBUPS BCPVU TUBSUJOH UIF TFSWFS P SJHIU IPTUO TFFO FOWJSPONFOU WBSJBCMF
-97	5IF EFTJSFE WFOEPS EBFNPO JT EPXO $IFDL ŽU›ƒF•‹PŽ‰•‰”MPH GJMFŽ•P‡S‡ƒ†5SZ
-98	5IJT '&"563& MJOF DBOzU CF DPOWFSUFE UP EFDJNBM GPSNBU
-99	5IF EFDJNBM GPSNBU MJDFOTF JT UZQFE JODPSSFDUMZ
-100	$BOOPU SFNPWF B MJOHFS MJDFOTF
-101	"MM MJDFOTFT BSF SFTFSWFE GPS PUIFST 5IF TZTUFN BENJOJTUSBUPS IBT SFTFSWFE BMM UIF MJDFOTFT GP PQUJPOT GJMF 5IF TFSWFS NVTU CF SFTUBSUFE GPS PQUJPOT G
-102	" '-&9*% CPSSPX FSSPS PDDVSSFE

-156 *OWBMJE TJHOBUVSF TQFDJGJFE XJUI UIF "65) LFZXPSE

-157 5SVTUFE TUPSBHF IBT CFFO DPNQSPNJTFE SFQBJS OFFEFE $POU
JOTUSVDUJPOT

-158 5SVTUFE TUPSBHF PQFO GBJMVSF $POUBDU ZPVS QVCMJTIFS GPS

-159# .

-159# .

9# .

9# .

Table 20-2 • &SSPS $PEFT

-176	461&34&%&@4*(/ EPFT OPU DPOUBJO B GFBUVSF OBNF BOE MJDFO QVCMJTIFS GPS GVSUIFS JOGPSNBUJPO
-177	0/&@54@0, JT OPU TVQQPSUFE JO UIJT 8JOEPXT 1MBUGPSN
-178	*OUFSOBM FSSPS 3FQPSU JTTVF UP 3FWFOFSB 8IFO NPSF UIBO POF SFNPUF EFTLUPQ DIFDLPVU JT QFSGPSNFE F UIBO POF UFSNJOBM TFSWFS SFNPUF DMJFOU DIFDLPVU PDDVSSF EFTLUPQ DIFDLPVU UIFO SFQPSU UIF JTTVF UP 3FWFOFSB
-179	0OMZ POF UFSNJOBM TFSWFS SFNPUF DMJFOU DIFDLPVU JT BMMP
-180	*OUFSOBM FSSPS 3FQPSU JTTVF UP 3FWFOFSB
-181	*OUFSOBM FSSPS 3FQPSU JTTVF UP 3FWFOFSB
-182	*OUFSOBM FSSPS 3FQPSU JTTVF UP 3FWFOFSB
-183	.PSF UIBO POF FUIFSOFU IPTUJE OPU TVQQPSUFE JO DPNQPTJUF QVCMJTIFS GPS GVSUIFS JOGPSNBUJPO
-184	5IF OVNCFS PG DIBSBDUFST JO UIF MJDFOTF GJMF QBUIT FYDFFE 5IFSF JT B MJNJU PO UIF OVNCFS PG MJDFOTF GJMFT UIBU DBO C MJNJU JT PO UIF OVNCFS PG DIBSBDUFST JO UIF DPNCJOFE MJDF ‡ **UNIX** x DIBSBDUFST ‡ **Windows** x DIBSBDUFST 3FEVDF UIF OVNCFS PG MJDFOTF GJMFT PS SFMPDBUF UIFN TP U
-185	*OWBMJE UJNF [POF TZOUBY 3FUVSOFE BU MJDFOTF FODSFZQUPJSFD TUZJDNFBYGJTUIGPU WBMJE &OTVSF UIBU JG TQFDJGZJOH NVMUJQMF UJNF [POFT UIF TQBDF FODMPTFE JO RVPUBUJPO NBSLWBMGVTJUOHVTF CF VTFE CZ JUTF
-186	*OWBMJE UJNF [POF PWFSSJEF TQFDJGJDBUJPO JO UIF DMJFOU
-187	5IF UJNF [POF JOGPSNBUJPO DPVME OPU CF PCUBJOFE " MJDFOTF UIBU JT UJNF [POF MJNJUFE DPVME OPU CF DIFDLFE P DPVME OPU CF PCUBJOFE GPS UIF NBDIJOF PO XIJDI UIF MJDFOTF GPS GVSUIFS JOGPSNBUJPO

-206 /P EFEVDUJPO SFDPSE GPVOE GPS UIF SFRVFTUFE DMJFOU IPTU

-207 5IF MJDFOTF TFSWFS EPFT OPU TVQQPSU USVTUFE TUPSBHF

-208 5SVTUFE TUPSBHF DPVME OPU CF TBWFE
6TFE JO WFOEPS EBFNPO GPS EFCVH MPH QVSQPTFT *O 'MFY/FU

Table 20-2 • &SSPS $PEFT

Error Code	Description
	-PDBM DIFDLT GPS DIFDLPVU GBJMFE
	%VQMJDBUF DIFDLPVU OPU QPTTJCMF VOEFS %61@(3061 DSJUFSJ
	5PP NBOZ FOUSZ GPS CBUDI DIFDLPVU

Enabling Report Log Output for a Vendor Daemon

5IFSF BSF UXP XBZT UP FOBCMF SFQPSU MPHHJOH GPS B QBSUJDVMBS WFO
MJDFOTF TFSWFS

‡ "EE UIF 3&1035-0(MJOF UP UIF PQUJPOT GJMF

‡ *OWPLE UIF WFOEPS EBFNPO

Redirecting Report Log Output for a Vendor Daemon

5IF SFQPSU MPH PVUQVU GPS B QBSUJDVMBS WFOEPS EBFNPO DBO CF NPW
BDUJWJUZ PWFS B EJGGFSFOU QFSJPE PG UJNF 5IFSF BSF UISFF XBZT JO
SVOOJOH PS OPU

‡ $IBOHF UIF 3&1035-0(MJOF JO UIF WFOEPS EBFNPOzT PQUJPOT GJMF BO
Ž•"‡"‡ƒ†WFSTJPO PS MBUFS WFOEPS EBFNPO PS SFTUBSU

‡ *OWPLE UIF WFOEPS EBFNPO

‡ *OWPLE UIF WFOEPS EBFNPO 3FRVJSFT B WFSTJPO
NPSF EFUBJMT

22

Debug Log File

5IF MJDFOTF TFSWFS QSPEVDFT CPUI EFCVH MPH GJMFT BOE SFQPSU MPH
3FQPSU -PH 'JMF

" EFCVH MPH GJMF DPOUBJOT TUBUVT BOE FSSPS NFTTBHFT VTFGVM GPS E
EJTQMBZT UIF TFSWFS T TZTUFN EBUF UJNF BOE UJNF [POF BU UIF CFHJO
HFOFSBUFT EFCVH MPH PVUQVU 4PNF PG UIF EFCVHŽMPH‹PŽ•U‰QBVUEEFTDSJC
TPNF PG UIF EFCVH MPH PVUQVU EFTDSJCFT FWFOUT TQFDJGJD UP FBDI W

Managing Debug Log Output

Informational Messages

5IF GPMMPXJOH UBCMF MJTUT UIF WBSJPVT JOGPSNBUJPOBM NFTTBHFT VT

Table 22-2 • *OGPSNBUJPO .FTTBHFT

Retrying socket bind (address in use)	5IF MJDFOTF TFSWFST USZ UP CJOE UIFJS TPDLF NJOVUFT JG UIFZ EFUFDU |BEESFTT JO VTF} FSS
Selected (EXISTING) master host.	5IJT MJDFOTF EBFNPO IBT TFMFDUFE UIF FYJTUJ NBTUFS
SERVER shutdown requested.	" EBFNPO XBT SFRVFTUFE UP TIVU EPXO WJB B V DPNNBOE
Shutt nt down en	O 5IX` JDFOTF TFBFN)E NBOBHFSÐVT TIVBUJO2H EPX

Configuration Problem Messages

5IF GPMMPXJOH UBCMF MJTUT DPOGJHVSBUJPO QSPCMFN NFTTBHFT GPVOE

23

Identifying FlexNet Publisher Versions

5IJT TFDUJPO FYQMBJOT IPX UP JEFOUJGZ 'MFY/FU 1VCMJTIFS WFSTJPOT

‡ 7FSTJPO $PNQBUJCJMJUZ #FUXFFO $PNQPOFOUT

‡ %FUFSNJOJOH UIF -JDFOTF 'JMF 7FSTJPO

Version Compatibility Between Components

*O HFOFSBM BMXBZT VTF UIF MBUFTU WFSTJPO PG XIJDI BSF BWBJMB
XXX SFWFOFSUBDPN QMPJU UIF FOIBODFNFOUT BWBJMBCMF JO UIF NPTU SFD
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/PUF DBO POMZ CF VTFE XJUI DPNQPOFOUT XJUI B WFSTJPO PG P

‡ 7FSTJPO PG WFOEPS EBFNPO XIJDI NVTU CF

‡ 7FSTJPO PG UIF DMJFOU MJCSBSZ MJOLFE UP UIF 'MFY&OBCMFE BQQMJD

‡ "DUJWBUJPO VUJMJUZ XIJDI NVTU CF

‡ 7FSTJPO PG MJDFOTF GJMF GPSNBU

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BOE BMM VTFST NVTU VQEBUF UP QSJOU UIF WFSTJPO

Determining the License File Version

24

Environment Variables

&OWJSPONFOU WBSJBCMFT BSF OPU SFRVJSFE JO PSEFS UP VTF 'MFY&OBC
OPSNBMMZ VTFE GPS EFCVHHJOH PS GPS DIBOHJOH MJDFOTF EFGBVMU MPI

How to Set Environment Variables

'MFY/FU 1VCMJTIFS FOWJSPONFOU WBSJBCMFT BSF TFU JO UXP EJGGFSFOU

‡ *O UIF QSPDFTT FOWJSPONFOU

‡ *O UIF SFHJTUSZ 8JOEPXT WFS[TJPO^Ž‡šŽ•S6F*BSWFSTJPS JO PS FBSMJFS
GVODUJPOT MJLF UIF SFHJTUSZ PO 6/*9

Windows Registry

0O 8JOEPXT TZTUFNT UIF SFHJTUSZ LEZ MPDBUJPO ŽT ‹…‡••‡ ƒ•ƒ‰‡”

0O 6/*9 UIF FRVJWBMFOU JOGPS[MVNŽEUSŽ•O*.OTUTJTPSFEMEOJU’kF„ŽZOUBY JT

Environment Variables

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$PNQBOZ $POGJEFOUJBM '/1 -"('MFY/FU 1VCMJTIFS 3 -JDF

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