



1.1	.....	4
1.2	.....	5
1.3	.....	5
1.4	.....	5
2.1	.....	7
2.1.1	.....	7
2.1.2	.....	7
2.1.3	.....	7
2.1.4	! " #	8
2.2	\$ % & '	9
2.2.1	() *	9
2.2.2	\$ % + , -	9
2.2.3	\$ % & '	10
2.3	/ 0	12
2.3.1	1 2 3 4	12
2.3.2	5 6 7 8	36
2.3.3	9 : \$ %	47
; < = > ?		
3.1	@ A B	62
3.1.1	C B	62
3.1.2	D E B F G	64
3.1.3	H I J B K L M I	65

3.1.4 A N O P Q B	69
3.2 R S	70
3.2.1 Database K Schema T U	70
3.2.2 G T U	71
3.2.3 V W X Y Z N	74
3.2.4 H [T U	75
3.2.5 \] T U	75
3.2.6 ^ _ K ` G T U	76
3.2.7 SQL a b	76
3.3 Q) *	79

5.1.1	.....	107
5.1.2 • Ž	.....	107
5.1.3 • > „	.....	109
5.1.4 (• ‘ ’ “ d	.....	111
5.2 gs_dump	.....	113
5.2.1 ” • €	.....	113
5.2.2 • –	.....	115
5.3 gs_\$m	.....	115
5.3.1 ” • €	.....	115
5.3.2 — ~ ™ !	.....	115
5.3.3 • –	.....	116
5.4 gs_&'sta!!	.....	117
5.4.1 ” • €	.....	117
5.4.2 7 8 (SS)D*	.....	117
5.5 gs_p#e&'sta!!	.....	118
5.5.1 ” • €	.....	118
5.5.2 • –	.....	118

Š›

{ ¤\$+St\$'e) 'te#p#se Database v œ • (SS)D* ~ ž Ÿ k
i \$pe' ,auss ¢ / £ l ¤ < ¥ 7 | § ¨ © v ª « ¤'te!¥ ¬ - ® ¯ ° “
d ± v ^ m • v • § v • ² ³ ¥ £ k ´ µ ¶ ® v § · @ , ¹ º »

1." # \$ %

" r a « #
a « " r © SQL92<SQL99<SQL2003<SQL2011 V \$ v a « , *= ¥ , *18030 ¥ 02>7
8¥SQL-S5((î La8'71 H I 9 v a « SQL " r B † Û% B v a « X Y Ã
& Â
& ' () #
a « " r ?D*5 4.0 © ¥ 6D*5 3.5 Â
X Y c d #
a « G * ó v § î + Ö Ò G V W å Ö Ò © X Y , Â
~¼ l m - 6 #
. Á a « -5(D ¥ 5 / 0 1 p q ¥ - 6 Ò 2 v - 6 0 1 n P ® Â
7 | c d #
a « SSL 7 | 3 4 5 (¥ » 6 7 c d ¥ Þ 8 c d ¥ 7 | á U ® v æ à
è c d 9 ¥ 9 ¥ : ; 9 K 3 4 9 © 7 | Â

1.& ' (

{ 1 ~ • § # ´ ³ Õ \$ % < = > ? @ Ñ ì ó @60 ms Ò Ó
316A0:326@60sC A B >316@10s:326@10m&'
{ 2 ~ C Ø # a « • D E F ý Ø . Á v G > ¹ Á f >10DE 5 / # “
d H >150 l >tpm5 < Û J } F ý Ø # 32 / >1500 l >tpm5
{ 3 ~ • K L # ³ f K M N O = K L ³ f M N O = K L å >1000E / v
P Q H >0.85
{ 4 ~ 7 | # R | Þ , Ë Ì S T ¥ U å X Y © ! & Ý
Þ v U V W X Y Z [\ D & •] ‘ ’

1.) * + ,

û < ¥ f ¥ î ` 6 . Á “ d . l © ? @ N v ^ \_ Á ¥ ` È ¥ a b ¥
cdc¥ > a • >efghU i ® v À Á a « • K L ¥ j K k v § M N l m Ö
Ò © \$ % V Z Â

d> - . / 0 1

".1 2 3

".1.1 4 5

§ : N Â

- ¯ ° X Y Z } ª « q É ¹ Á v n Æ ... ~ ¼ o B p n X Y Æ Ç Â
- 409 - ´ q # ª « • Â
- 1aF\$ \$ ý ø G r q Ü s t v l m Z } v 535 u v ª « • § Â
- ª « | Þ , U ¥ w ® 7 | v ~ ¼ | & ä å ä © 7 | æ ç Â
- ÿ Ã 2able -ccess 9 eth\$ d () 9 ª « ¯ X Y Æ Ç Â

".1." * + ,

{ ~ ? @ N

û < ¥ f ¥ î ` 6 . Á “ d . l © ? @ N v ^ a b ¥ ` È ¥
626 ¥ a • 539 < U i ® v § M N l m Ö Ò © l m \$ % Z } Â

{ ~ • ` 3

• ` 3 ^ s ¹ ! ¨ ¥ x & ¨ Ü ¥ y z Ó { | } L ~ • ¥ y € • K , ` 3 ® Â • ` 3 © ž S f ! ¨ T m © ° A K f ¯ ¥ „ ... † • ¥ X Y • ‡ Ý Z N ¥ R © L M K Ù % û ^ Â

".1.& - . 6

7 8 9 : ; < =

¹ Á % < SQL Š 5\$ \$ # d & ' at \$ # v SQL § î < Æ < y ‘ - . 6 ¥

± • ‘ Å , UW v ‘ ú D4 ÷ M “ Å , UW© ” • – “ d Å
— . ž Ÿ ã ý ø Gash > ~ ù J è ‘ ú / v —™ D4 è “ d ©
Ã & v š N ” | š D4 v (SS)D* ~ ¼ D ° st#eam > { œ • > ¥
ž É > K ^ ù J > ~ Ÿ i è D4 / ó © > k Å
D4 q ¢ 9 £ Š 5\$\$#d'ate , - . Å 5\$\$#d'at\$# - . ¢ © q ¢ £ Š ¹
Á Å

GTM-Lite - .

,297Llte š î è æ à . Á ! ¥ F ý ø © Ò ì v ~ ¼ • © . Á “ d v
! š 5 ,29 © “ © Â ð ª © • . Á c d > © ž « ¬ ¥ ¯ - ¥ • û
< . Á Â ® ü ù J } © ,297Llte & ' ~ ¼ ! ¥ . Á “ K ~ ? ¯ c d v Ě
ì F ý ø v ü « 0 / “ © Â
NUMA-Aware > ? @ A B C

D AZ/Region E F - . G H

9 : ¢ G- v Ö × Ø v ¹ Á Ð Ž < Ò Ó Ô -. ³ Œ v Ö × Ø v ù ú
Ž p q v î ° B D 0 \$ % Â ª « ¯ 0 ; ý 4 Ĩ ! ¥ ý ø ± v ù ² ³ ´
• † • < µ ¶ © • š & ' # Ÿ ã . , ¯ , v š î Ě ì D5 v -. v 3eg!\$' Ž
• š ³ Œ ¹ ° ¸ » ¼ ù ½ 0 1 « ¾ n P < ª « = ¿ è P K ³ Â

Scale-out I J K L M N G H M N

O P H A Q R S T U V > ? W X Y Z 6 [\

(SS)D* Ÿ ã À ! Á Â ¥ Ě ã Á Â ¥ Á Â v Ě ì ù ú : ; « 5 0 1 v • š
Â

".1.)] ^ = _

` a = _

µ ¶ c d Z Ä { 6pe#a8\$' 9a'age# ~ Â ~ ¼ G (µ ¶ ¥ . , c d © c d
() ¥ s ^ Â

c d Z Ä { 5!uste# 9a'age# ~ Â c d K ! “ : ; @ ú 5 Å
K • d ³ ´ © µ , Æ Ç v æ ù ú : ; © ¾ µ , Â
° » ä È k

° » ä È k { 5!le'tD#&/e# ~ Â » É (Ê ÿ £ © Û ' Ë • v û Ä £ Å
, q ¢ Â ° » ä È k » É † (SS)D* Ë Ã ÿ • v < ì © SQL % Š v (Ê
(SS)D* Ë Ã © Å , q ¢ Â

l m

(SS)D* l m { Data'\$de ~ Â » É X Y ¹ Á ¥ Å , 4 Ĩ] Á î Ä ° »
ä £ Å , q ¢ Â (SS)D* Ë Ã < Æ l ¥ m ° ° A N v ª « ý l ¯ m Â í t l ¥
m (SS)D* Ë Ã Ù î \$ % è Ö Ò © • d / Â

À Á ± © B X Y ³ ´ v « Ĩ ´ X Y Â

"." b c d e

".".1 f g h

5 6

5 6 > © ž Đ Ñ ý ú Ë Ã Â

- 6

- 6 > © ž : ; X è l m Ë Ã v l Ë Ã ª « ± b v m Ë Ã ª « Đ ± Â
ý l ¯ m

ý l ¯ m > © ž è : ; X è ý ú l 6 v ¯ ú m 6 Â (SS)D* Ò ¯ ª « 8 ú m 6 Â

Ó Ô m o

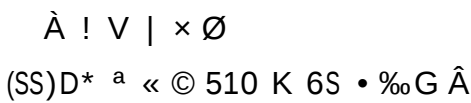
Ó m o # ž > m o Õ ž ý ú œ 5 © m o 9 v Ö § î ~ ¼ À Á Â

Ô m o # ž > m o Ë Ã § î R Ö ~ ¼ À Á › Â

".". " b c i j k l

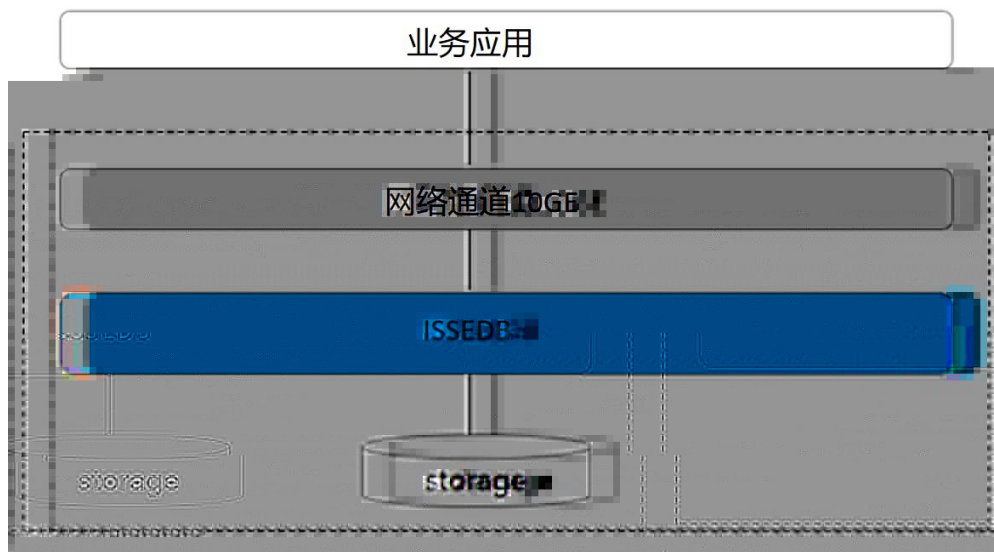
5 6 K - 6 ° ° \$ % + , & ' Ë • G 1 Â

G > 1 (SS)D* \$ % + , - . G



? Û Z }	510	6S
; ´ P %	F86_64	ce 't\$7.6 ¥ \$pe ')u!e# 20.3 ¥ \$pe ')u!e# 22.3 ¥ ´ Û H10
	¬ -	\$pe ')u!e# 20.3 ¥ \$pe ')u!e# 22.3

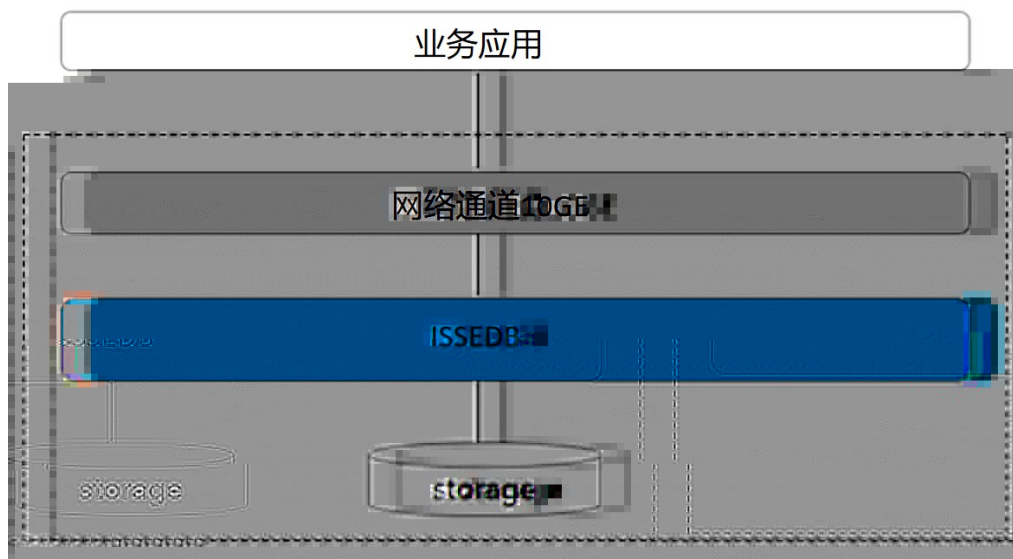
ù ² \$%& ' § î Ù · D A # 5 6 \$%¥ ý | ý m \$%¥ ý | ¯ m \$% Â
 5 6 \$%
 5 6 \$%+ , ž ý ° Ü (Ý © \$%+ , v õ ° + , R § ¥ § > «
] þ æ à Â ß Ð Ñ ý ú , v ý à < • á â ¥ × Ø v Ð ÿ Ã • d
 m o p q Â õ ° \$%+ , v ý ã ² v » v î t u 1 2 ä •
 – t ® Â Ö Í t b ¹ ì 3 μ , Â
 _ > 1 5 6 \$%+ , _



l m \$ %

l m Z } Q ò ° ú , v l 6 K m 6 @ ý ú , v m 6 (Ê G r ¥ Å , G r ó Â

_ > 2 5 6 \$ % + , _



ý l ¯ m \$ %

¯ , © \$ % + , v ~ ¼ é ê Ë Ã Ž 0 1 © v î Ö ¨ • 6 æ Ž ô ³

Õ v ð ž N ¨ é ê ú ô À ! 0 1 © Â

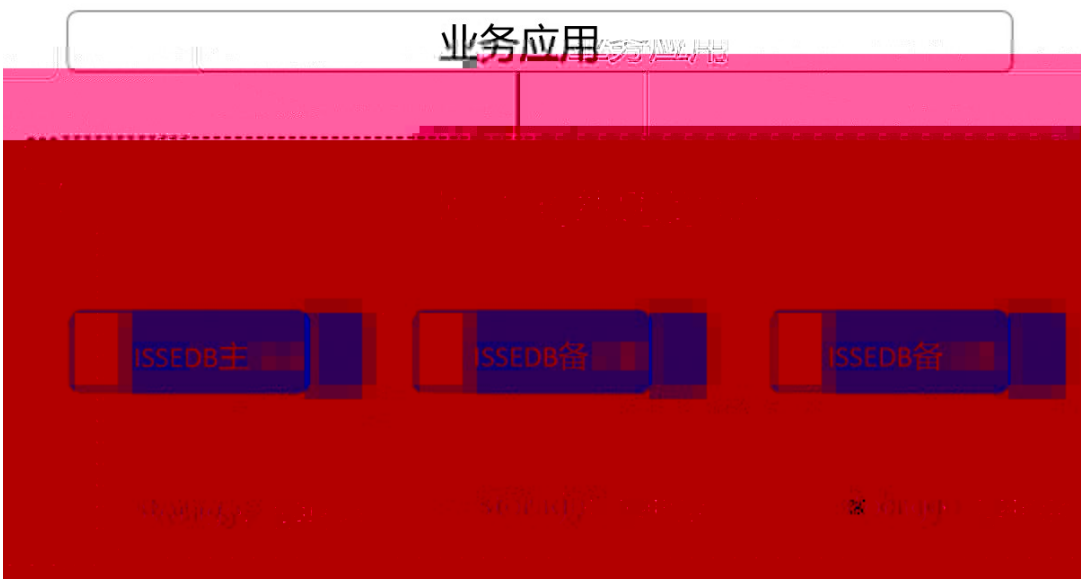
ý ã ¯ , \$ % ì • 1 l 2 m Z } v . ö 3 ú , v 3 ú , © § .

99.99 J v § î ÷ ø ¯ © § ¨ • Â

l m ó Qu \$ # u m q Ü v ù ñ Ò 2 å ý ú m 6 v æ à Ò Â

l m] û ý ú / 0 1 v Ö ü Ñ ¹ Á © , Â

Ñ D o v] Þ ý ú / 0 1 v : ; ý þ Ñ - o æ ÿ μ , Â] Þ ý
ú m o § î I Â
I m Ë Ã ó Ö § \$ % è Ò ý ú • d 6 Â
_ > 3 ý I ¯ m \$ % + , _



".& m n - .

".&.1 o p q r

".&.1.1 s t W X u v w x y

„ (SÙ v þ F 7 8 \$ % (SS)D* © L M(S: ; ; Â

L M : ;	-	“ d ±
\$pe')ule#	I\$pe')ule# 20.03 I\$pe')ule# 20.03 S12	IK86 I↗ - 920 I s2500 I 586
	\$pe')ule# 20.03 S13	IK86 I↗ - 920
	\$pe')ule# 22.03	IK86 I↗ - 920 I 586
	\$pe')ule# 22.03 S11	IK86 I↗ - 920
5e't6S	5e't6S 6.F	IK86
	5e't6S 7.F	IK86 I↗ - 920
	5e't6S 8.F	IK86 I↗ - 920 I 586
3edGat	3edGat 6.F	IK86
	I3edGat 7.F I3edGat 8.F	IK86 I↗ - 920
	"%!&' H7 des"\$t\$P	I↗ - 920
	I'"%!&' 4.0.2 S12 I'"%!&' 4.0.2 S14	IK86
	I'"%!&' H10 I'"%!&' H10 -	I↗ - 920
	"%!&' H10 -	IK86 I↗ - 920 I 586
	"%!&' H10 - 22047*u&!d037update1	I↗ - 920 I s2500
		IK86

4 f 1 2 • €

4 f & –

ý ã § • ^%%Š 4 f 1 2 • € #

```
lscpu
cat /etc/os-release
```

· Ú Û L M : ; v § • ^%%Š 4 f | - ¯ { S11 ¥ S12 ~ #

```
nkvers
```

» N L M : ; ¥ L M : ; - ¥ 510 " # ¥ 510 N ¯ l m R ©

! 7 8 & ' Â

Ã

î % : ; 1 2 · F86 = ú v • ('te! v L M : ; - · 3edGat7.8 Â

Å , ^%%Š 4 ï 1 2 • € #

```
lscpu
cat /etc/os-release
```

£ q ¢ Û ô · #

```
Architecture:          x86_64
.....
Model name:             Intel( ! "ore(#M! i$-8%%&' "(" ) *+8&,-.
.....

/AM012 ed -at 0nterprise 3inux 4erver2
50 4l6/12$+8 (Maipo!2
.....
```

ç § l m L M : ; - · “ #he!_7 { ï 3edGat 7 ~ ” v 510 · “ F86_64L © 7 8

<

".&.1."] ^ o p x y

!

7 8 (SS)D* © å < ^ % #

M!&b7de/e! ¥ !&ba!\$ ¥ !&buu&d ¥ #ead!&' e7de/e! ¥ "#b57

!&bs ¥ !&b&cu ¥ !&bFs!t ¥ tc! ¥ pe#! ¥ \$pe'!dap ¥ pam ¥ \$pe'ss!7

de/e! ¥ !&bFm!2 ¥ bM&p2 ¥ eFpect

× Ø # Ú Û 1 2 N ” 8 © < #

-s!a'uF	1%th\$' 3.6.K
---------	---------------

a & p%th\$'

a & — v a & © 8 '

%um & 'sta!! 7% gcc gcc7cEE ma"e cma"e bu&!d7esse '8a! M!&b7de/e! !&bP7de/e! \$pe'ss!7
de/e! s !&te7de/e!

Dget hNpsQ<<#ep\$.huaDe!c!\$ud.c\$m<p%th\$' <3.6.4<1%th\$'73.6.4.tgM

() * %¼ å ´ 8 ¢ v Õ § î ý + 7 8 Â
.c\$'Rgu#e 77p#eRFA<us#<b&'<p%th\$'3.6.4 7e'able7sha#ed
ma"e

ma"e & 'sta!!

p ¢ T , ý % 1 2 , f v < - . + / K%Š - . + / v p ¢ Õ § î µ ,
Â

eFp\$#t LD_L(*3-3:_1-2GA<us#<b&'<p%th\$'3.6.4<!&bQSLD_L(*3-3:_1-2G

eFp\$#t 1-2GA<us#<b&'<p%th\$'3.6.4<b&'Q\$1-2G

".&.1.& z ^ o p x y

 l " (SS)D* © À ! 1 2 " • v F ‡ Ò j Í t © À ! . , v p ¯ •
€ < • 0 1 À ! 1 2 " • Â

Ò j Í t À ! . ,

; < † t u 1 2

(SS)D* À Á ± è ; < † t u 1 2 ^ m© À ! . , " • ^ % #

2 •	510	¢ X	B X Y	3 4
(SS)D*	2 / E	4, *E	S-Sß100,	3 4

• 1 2

(SS)D* À Á ± è • 1 2 ^ m© Ò j Í t À ! . , " • ^ % #

5 # è Ë 6 v À ! · , © VWN " Æ 7 » © V Z î 8 ©

: w	Ò j · ,	Í t · ,
¢ X	u Í t ¢ X Ò j 8, * î Â ; Í ý l ° m 9 : v À Á ± ¢ X · , ï ð · 8, î v ç ÷ ‡ ì sha#ed_mem\$#% Ö ©ÆÇ Â	

Ñ 9 v Ë Ë 6ÆÇ , VWÂ
À Á ±

5 6 \$ % ì " • 1 ú • d 6 E F 6 Â

9 : \$ % ì " • À Á ± † l m f Q v ^ \$ % ý l ° m 1 2 " • 3 ú • d 6
E F 6 Â

^ p R w " l 6 , N O . , Â
· æ à (SS)D* © M (· v N " / ó © Û ' ä) P Ÿ Q \$ î æ à ± b Ë
• ¥ 0 R ® • € © M (S T Â
è S T v © ¹ Á À Á K / © 3 4 ` Ÿ ž è 7 | • ¢ U
' ? V Â
^ ¢ W Ñ Ý 7 | © " • v Í t w " / © N O , X Â < • & ' ý Â
ç Í t M " ä) • V ç v ä) • € . , å N O À Á © 2 5 v < •
& ' Y Â
3 t X w " \$ % 6 ± © N O
& ' ý # X N O
2 Z 1 î # \$ \$ t » [x L M : ; Â
2 Z 2 3 4 N O g , { î > 5 e ' t 6 S L & ' u F # e ! e a s e 7 · Ã ~ Â

```
sudo ;ire<all-cmd --state  
sudo s7stemctl status ;ire<alld+service
```

2 Z 3 X N O À Á Â

```
sudo s7stemctl stop ;ire<alld+service
```

2 Z 4 X N O £ k j k À Á Â

```
sudo s7stemctl disa8le ;ire<alld+service
```

2 Z 5 3 4 N O g , Â

```
sudo ;ire<all-cmd --state  
sudo s7stemctl status ;ire<alld+service
```

& ' Y # ; ó ä)

2 Z 1 n , ä) ù N O 2 5 Â

```
;ire<all-cmd --.one1pu8lic --permanent --add-port1%4=9/tcp
```

2 Z 2 ^ n Ý ¼ N O 2 5 Â

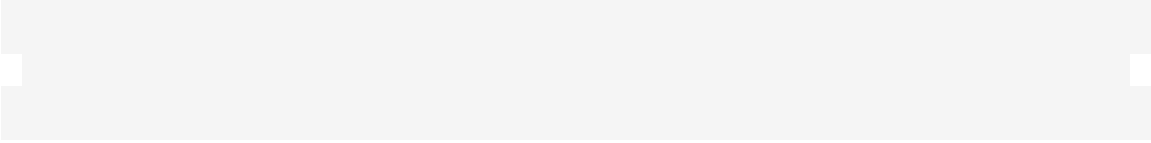
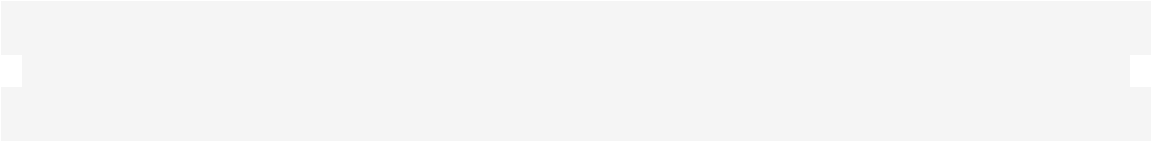
```
;ire<all-cmd --reload
```

2 Z 3 4 f ä) F G Â

```
;ire<all-cmd --list-port
```

% F @ (1 ä) > · @ À Á © \ ß ä) v » Ë 6 © V W ä R] P Â

À Á 2 •	ä) ¯	× Ø
(SS)D*	5432	À Á ä)
	5433 { À Á ä) E1 ~	(SS)D* ¢ \$ s ^ • ä)
'tp	123	'tp \ ß ä)
G-S	55434	9 : B ! ^ ä)
	55435	9 : 0 R ä)
	55436	9 : À Á ä)
	8008	9 : Ÿ _ ä)
D5S	2379	D5S ó Ÿ _ ä)
	2380	D5S ó Ÿ _



& - ý # @ / © ì b T , · Q Ò ì b
2 Z 1 î #\$\$t » [x L M : ; Â
2 Z 2 <us#<sha#e<M\$'e&'U\$<w x %© ì b ! c d · <etc<!\$ca!8me ! v ®
T , ì b K ì ó Â

```
cp /usr/share/.onein;o/> /> /etc/localtime
```

& - Y # s T ì ó
2 Z 1 î #\$\$t » [x L M : ; Â
2 Z 2 Å , date 7s %Š T , ì b K ì ó Â
î T , ò — ì ó · 2020708703 14015000 · Ã Â

```
date -s 29&9&-&8-&= *4:.*%:&&2
```

2 Z 3 : ; ì ó b ...À ! ì ó Â

```
h<clock ?<
```

& - D # · ì ó À Á ± Ò 2 ì ó
R · § 9 : · 1 2 v V \$ ì ó · , v · l m / æ « ì ó Ò 2 Â
l m l m / è ¥ · 3 ý ú É î © / M · ì ó À Á ± { ™ ! Ñ 7 v ñ
§ · l / ~ v · 'tpd ch#\$'%d À Á · , ì ó Ò 2 Â L M 2 Z î
· 'tpd À Á · Ã Â
2 Z 1 7 8 'tpd À Á Â

```
7um install -7 ntpd  
@"ent64 ed-at chron7d ntpd ! " #  
chron7d$ntpd %& ' ( ) * + , - . / 0  
@  
@1 2 3 ntpd 4 5 6 3 chron7d 0  
@  
@AAA  
s7stemctl disa8le chron7d BB s7stemctl stop chron7d  
AAA
```

2 Z 2 a z · , ! Â
^ ¢ e f X è 'tp À Á ± v g ^ · 192.168.100.100 v § î · , Ñ / > Ä l
'tp À Á ± ì ó Â a z · § 9 : ' ú / © <etc<'tp.c\$'U ! #
L M w © Ž h 421 Se#/e# K | £ i æ « Ò 2

```
server *C9+*68+*&&+*&& pre;er  
dri;t;ile /var/li8/ntp/dri;t  
8roadcastdela7 &+&&8
```

^ ¢ WÑÖ \$ © ì ó À Á ± v § î l m 9 : © k ú / M · ì ó À Á ± Â l
m ý ú / · 'tp À Á ± { î l / 192.168.100.1 · Ã ~ è l m © / ·
, <etc<'tp.c\$'U ! #

```
server *9$+*9$+*+&  
;ud:e *9$+*9$+*+& stratum *&  
dri;t;ile /var/li8/ntp/dri;t  
8roadcastdela7 &+&&8
```

a z • § 9 : | š / ©<etc<'tp.c\$'U ! #

```
server *C9+*68+*&&+* pre;er  
dri;t;ile /var/li8/ntp/dri;t  
8roadcastdela7 &+&&8
```

è 'tp À Á j k ì ö Ž 'tpd.c\$'U · , ! v N " ^ n j k 'tp À Á • | • ½ Â
2 Z 3 2 Z 2 © ° ° & } M N l m v p ¢ j k @ / 'tpd À Á #

```
s7stemctl start ntpd  
s7stemctl enable ntpd  
s7stemctl status ntpd
```

2 Z 4 ® l 5 Û Ú • ì ó À Á ± ; " ~ ¼ À Á v 5 Û Ú ¢ 3 4 @ / ì ó ž Ò
2 Â

date

2 Z 5 ì ó Ò 2 ¢ v è @ / : ; ì ó b ... À ! ì ó Â

h<clock ?<

: ; ¢ / < v û > „ » ^ Þ T , : ; ¢ / < Â
: ; ¢ / <

l < G § î m Ñ © A 2 (6 Ě • w Â

ï ð n # 1048576 Â

è L&'uF 6 K 7 • a&\$ ì N " T , Us.a&\$7maF7'# Ÿ î A 2 (6 Â

T , • \$ #

s7sctI ;s+aio-max-nr1D*&48%\$6D

I < G ' o [x ÷ p § î P ; © ! Â
è L&'uF 6 K 7 v R!e7maF © n † ¢ / ³ ´ • < maF_R!es_pe#_p#\$cess R Â
T , • \$ #

s7sctI ;s+;ile-max1D\$6\$946&&D

I < <Æ4 ú < { q ' · S)99SL¥S)994S¥S)9619 ¥S)994(~ Â
S)99SL# ' ú • ¯ f set • ¯ f Ò ú v Ò n 250 Â
S)994S # L&'uF : ; • ¯ f Ò ú v ù ñ n 32000 v ®
S)99SLVS)994(Â
S)9619 #S)961 : ; r s © • ¯ f Ò ú v ù ñ n 100< = ®
S)99SL Â
S)994(#L&'uF : ; • ¯ f set Ò ú v Ò ñ 128 Â
&pcs7! i &pcs7u 4 f • ¯ f Â
' 16 ú & ý v ' • ¯ f N " 17 ú • ¯ f Â § N " ö Ž "e#'e!.sem
n Â
S)99SL t G • ¯ f vS)994(t G Â
T , • \$ #

s7sctI kernel+sem1D4&C6 9&C\$*%9&&& 4&C6 %*9&&&D

I < " Ü ö A ¢ X u v ® : ; ¢ X { Í t T , · 80J ~ <
1-,)_S(.)v I < T , v Ñ § „ ø j k w ê Â
5 #b%te
Ã # • d ¢ X · 128,* v 1-,) · 4096 v ç
"e#'e!.shma!!A128V1024V1024V1024V0.8W<4096A26843545 Â
• getc\$'U 1-,)_S(.)%Š 4 f page_sMe Â
¢ X N P ' b%tes Â
T , • \$ #

s7sctI kernel+shma11D9684=%4%D

I < G Ò 5 ú ö A ¢ X [{ Í t . sha#ed_buXe# n ~ v >® :
; ¢ XV0.5Â
5 # b%tes
Ã # • d ¢ X . 128,* v ç #
"e#'e!.shmmaFA128V1024V1024V1024V0.5A68719476736 Â
¢ X N P ' b%tesÂ
T , • \$ #

```
s7sctl kernel+shmmax1D68$*C4$6$=6D
```

I < : ; \$ x ¢ ö A ¢ X [© Ò f Â
\ ß n # 4096Â
' ú (SS)D* 9 : ù ñ 2 ú ö A ¢ X [Â
T , • \$ #

```
s7sctl kernel+shmmni1D8*C9&&D
```

I < G r s ì å y F© < © Ò w Â
&ptables NO z G Q Â
T , • \$ #

```
s7sctl net+core+netdev_max_8acklo:1D*'&&&D
```

I < G > (Ê { | © ¢ X \ ß n Â
5 # b%tesÂ
T , • \$ #

```
s7sctl net+core+rmem_de;ault1D969*44D
```

I < G > (Ê { | © ¢ X Ò n Â
5 # b%tesÂ
T , • \$ #

```
s7sctl net+core+rmem_max1D4*C4=&4D
```

l < G > < ì { | © ¢ X \ ß n Â
5 # b%tes Â
T , • \$ #

```
s7sctl net+core+<mem_de;ault1D969*44D
```

l < G > < ì { | © ¢ X Ò n Â
5 # b%tes Â
T , • \$ #

```
s7sctl net+core+<mem_max1D4*C4=&4D
```

l < G s\$c"et ! ^ © bac"!\$g { y F ~ 7 Â
\ ß n # 128
T , • \$ #

```
s7sctl net+core+somaxconn1D4&C6D
```

l < G >(4_ ; -(2_2 g , © < ì ì } Â
5 # Ð Â
Ý ~ • & Ê 9 Â
T , • \$ #

```
s7sctl net+ipv4+tcp_;in_timeout1D%D
```

l < G € < • © , u f v < Ã l < ¢ , u • å ? = Â
5 # bt%es Â
T , • \$ #

```
s7sctl vm+dirt7_8ack:round_87tes1D4&C6&&&&D
```

l < G , © Ã 8 ì ó v < Ã l ì ó : ; ÷ , b å ? = Â
5 # Í Ù ý Ð Â
Q /m.d&#t%_eFp&#e_ce'8secs n f © , u v é • å ? = Â

b6P3e(ñH÷

î %%%Š 3000 t G 30 Đ Â

T , • \$ #

s7sctl vm+dirt7_expire_centisecs1D=&&&D

l < G , í ù Q v < ã õ ú í ù Q v n © (6 Ě • ÷ é ` „ v ... å ,
é b ? = Â

T , • \$ #

s7sctl vm+dirt7_ratio1D8&D

l < G ¯ } ì ó v ¢ ú • , u & ÷ é † ‡ ý o v 3 4 ž Ñ { X N ” ^
d Â

5 # í ù ý Đ Â

< T , • 100 t G 1 Đ v ^ %%%Š 50 t G 0.5 Đ Â

T , • \$ #

s7sctl vm+dirt7_<rite8ack_centisecs1D%&D

l < G ¢ X ù • ¹ ° v § l n # 0 ¥ 1 ¥ 2

0 # G ¢ / 3 4 ž Ñ ø © § ¢ X ¼ & • v ^ ¢ Ñ ø © §

¢ X v ¢ X % Ě r s < ç v ¢ X % Ě Ø # v û + ê ë £ Š & Â

1 # G ¢ / r s ù • Ñ © • d ¢ X v ® Ö c ò — © ¢ X g , ^ Þ Â

2 # G ¢ / r s ù • < ã Ñ • d ¢ X K ? P * ó . K © ¢ X Â

è ù • ¢ X ì / m . \$ / e c \$ m m i t _ m e m \$ 1 " d 0 . \$ ã e H ÿ x ò

T , • \$ #

s7sctl vm+s<appiness1D6&D

I < § î T , B k , ä) Û · \$ x v i Ğ ! ^ ä) Â
T , x A \$ # , G V • ó ô @

s7sctl net+ipy4+ip_local_port_range1D4&&&& 6%%=%D
! • 2 ã %

I < G 5 ú & § Û · © Ò ! Â R Ñ • ¯ R S { G ¥ ^ _ ¥ . Æ ¥
,

"e% G < 2
/alues G T , © < n v < n ¶ < • ÿ Â
2 Z 3 ^ ¼ · , v • | è Ö 6 ©ÆÇ‰ • ½ Â

s7sctl -p

& } Y # ' f T , ¢ / <
2 Z 1 î #\$\$t » [x L M : ; Â
2 Z 2 a & ¢ / < · , ! <etc<s% sctl!.c\$'U v ¢ / • € b ... ! ' “ Â
ò : ; • d ¢ X > 0 8 , ì v N ^ n U ¢ / < T , Ã "e#'e!.shma!! K
"e#'e!.shmmaF © n Â
î ‰ ¢ / < Ã ò ¼ < Æ v ^ N Ý ´ T , N q É < K Ë 6ÆÇ ,
T , Â

```
;s+aio-max-nr1*&48%$6  
;s+;ile-max1 $6$946&&  
kernel+sem 1 4&C6 9&C$*%9&&& 4&C6 %*9&&&  
kernel+shmall 1 9684=%4% E pa:esF 8&G M0M or hi:her  
kernel+shmmax 1 68$*C4$6$=6 E 87tesF 8&G M0M or hi:her  
kernel+shmmni 1 8*C9&&  
net+core+netdev_max_acklo: 1 *&&&&  
net+core+rmem_de;ault 1 969*44  
net+core+rmem_max 1 4*C4=&4  
net+core+<mem_de;ault 1 969*44  
net+core+<mem_max 1 4*C4=&4  
net+core+somaxconn 1 4&C6  
net+ipv4+tcp_;in_timeout 1 %  
vm+dirt7_8ack:round_87tes 1 4&C6&&&&&  
vm+dirt7_expire_centisecs 1 =&&&  
vm+dirt7_ratio 1 8&  
vm+dirt7_<rite8ack_centisecs 1 %&  
vm+overcommit_memor7 1 &  
vm+s<appiness 1 &  
net+ipv4+ip_local_port_ran:e 1 4&&&& 6%=%%  
;s+nr_open 1 9&48&&&&
```

2 Z 3 • € b ... U ‘ ¨ æ X ” ‡ Â

:<H

2 Z 4 ^ ¼ · , v • | è Ö 6 ©ÆÇ‰ • ½ Â

s7sctl -p



```
service sshd restart
```

◀ • ,

™ o 7 8 ì N " • , (15 < Â

" • €

ò 3em\$/e(15A%es ì v L M : ; ÷ è » " ‡ ì v • š l » © (15 ³ ´ { ö A

¢ X [K • ¯ f ~ v ® • > (SS)D* À Á ± • © (15 ³ ´ é ^ d v § Æ <

œ 6 v î N " T , 3em\$/e(15 < • '\$Â

L M 2 Z

2 Z 1 î #\$\$t » [x L M : ; Â

2 Z 2 ... <etc<s%stemd<!\$g&'d.c\$'U ! v 4 f ž e f T ,

3em\$/e(15A'\$v ^ ¢ W Ñ ç Å , 2 Z 3 v ç R Ã Â

```
vi /etc/s7stemd/lo:ind+con;
```

2 Z 3 è • , ! ' " n , • , : 3em\$/e(15A'\$Â

2 Z 4 ...<us#<!b<s%stemd<s%stem<s%stemd7!\$g&'d.se#/&ce ! v 4 f ž e f

T , 3em\$/e(15A'\$v ^ ¢ W Ñ T , ç Å , 2 Z 5 v ç R Ã Â

```
vi /usr/li8/s7stemd/s7stem/s7stemd-lo:ind+service
```

2 Z 5 ö Ž • Ý • , : 3em\$/e(15A'\$Â

2 Z 6 ^ n Ý ¼ • , < Â

```
s7stemctl daemon-reload
```

```
s7stemctl restart s7stemd-lo:ind
```

2 Z 7 3 4 ö Ž ž • ½ Â

```
lo:inctl sho<-session I :rep emovel("
```

```
s7stemctl sho< s7stemd-lo:ind I :rep emovel("
```

T , 3 ž n { § l ~

@ / K ? P 6 © 3 ž 920 n { Ò S T 5 Å ~ T , • Q Ò

{ 920 n Ÿ 1500 ~ v ï ð n # 8192 { 920 n § N " £ , ö Ž ~ Â N " 5 Ò

? P 6 ý • ö Ž { ö Ž & – Ë İ ? P 6 ; b ~ Â

2 Z 1 î #\$\$t » [x L M : ; Â
2 Z 2 Å , ^%%Š v T , 3 ž 920 n Â
3 ž a ¯ š Ÿ Ã ¯pa%Š 4 f Â
& – ý #

Ei;con;i: • € • , mtu f
i;con;i: eth& mtu 8*C9

& – Y #

cat /s7s/class/net/ • € • , /mtu
echo 28*C92 @ /s7s/class/net/ • € • , /mtu

• Ý q ' V ç { § l ~

".&." Z „ …

† ‡ ^ t

! -

(1 • € ä) · ,

l 6 2	ls\$+'\$de2	l m l 6 2
(1 B ¢	192.168.146.162	(1
ä) ¯	26000	D*'\$de ! ^ ä)

» 2 VW

			!
3 7 8	9 : :	; <	= > ? @
A 8	BCDEF	; <	= > ? @

! w x VW

"	# \$	" % &
G9FHGI9JHKLEMGNIIIMBC	I9JHKLEM	O P Q R S T U V
G9FHGNIIMBCGNWIHLXXGLFF	YZZ[\] ^FF_LH`	a b c O P U V
G9FHGNIIMBCGX9D	YZZ[\] d9D_LH`	e f U V
G9FHGNIIMBCGNWIHLXXGBLHLGBCg	BLHLh9BMg	i j a b S T U V
G9FHGNIIMBCGH : F	H : F k FFBC_LH`	I m R U V
G9FHGNIIMBCGNIIIMBCH99XI G9 :	YZZ[\] n99X_LH`	a b c o p U V
G9FHGNIIMBCGq9EMJNXM	q9EM_LH`	a b c q9EM m R U V

T , @ / | 6 2 •

2 Z 1 Û ô è @ / Å , #

```
5i /etc/hostname
hostnamectl set-hostname iso;tnode9 E I % Š 6 *C9+*68+*46+*69 < : ;
```

2 Z 2 T , @ / <etc<h\$sts

```
vi /etc/hosts
*C9+*68+*46+*69 iso;tnode9
```

£ Í 7 8 » K w x

2 Z 1 î #\$\$t » [x L M : ; Â

2 Z 2 £ Í 7 8 » { \$ £ j ~ v T ! " Ъ 8 { N " ^ q T ... 2 o

ü U | ý ø ~ Â

```
useradd -m omm
pass<d omm)9&9=
```

£ j © L M : ; » 2 § 7 8 v ! ¢ K ¢ | N " , Q]

```
NIIMBC so;t nproc unlimited
NIIMBC hard nproc unlimited
NIIMBC so;t stack unlimited
NIIMBC hard stack unlimited
NIIMBC so;t core unlimited
NIIMBC hard core unlimited
NIIMBC so;t memlock unlimited
NIIMBC hard memlock unlimited
NIIMBC so;t no;ile *&94&&&&
NIIMBC hard no;ile *&94&&&&
```

...

— ~ TM !

: ; † 1 2 · ,

™ \$ Û ¢ ³ R l m / L M : ; 1 2 , · , v î % L M 5 û N •

#\$\$t » Å , Â

NO · ,

X NO v ; j ä) Â

· ,

– ì è ï X S)L(40KÂ

ì ó Ò 2 · ,

j k 9 : — ¥ | , ý o ì ó Ò 2 Â

x & [x · ,

T , #\$\$t r s x & [x Â

: ; ¢ / < · ,

: ; 1 2 Ë 6 Æ Ç · , : ; ¢ / < Â

< T ,

X 3em\$/e(15 Â

8

7 8 å < Â

%¼ U § 7 8 <

```
-- %¼ Q R r
cd /opt/so;t<are/issed8
<:et https://issed8-%+o8s+cn-north-4+m7hua<eicloud+com/issed8/centos-
x86_64/issed8-%+&+&-"ent64-x86_64-A33+tar+:.
E s t Q R r v s t NIIMBC-%+&+&-"ent64-648it-all+tar+:. u 4 v w +sha9%6 m
R x y z { | } ~ • € J,A'44-%&9*K : #he /opt/so;t<are/issed8/issed8-
9+&+&- ed-at-648it+sha9%6 does not exist+
```

tar -xv; IIIMBC-%+&+&-"ent64-648it-all+tar+:.
tar -xv; IIIMBC-%+&+&-"ent64-648it-om+tar+:.

£ Í . , !

. , K9L ! { | / ~

¨ © H ² N " N •] P

```
-- i j root 3 7
-- •/opt/so;t<are/issued8 UV , f cluster_con;i:+xml m R
-- z { ; < „
cat @ cluster_con;i:+xmlLL06M
LNxml version12*+&2 encodin:12'#M-82N@
L 66#@
  L0-- l440PQ...†‡^ --@
  L"3'4#0 @
    L(A AM name12cluster/ame2 value12d8"luster2 /@
    L(A AM name12node/ames2 value12iso;tnode92 /@
    L(A AM name128acklp*s2 value12*C9+*68+*46+*692/@
    L(A AM name12l440PQApp(ath2 value12/opt/issued8*/app2 /@
    L(A AM name12l440PQ3o:(ath2 value12/opt/issued8*/lo:/issued82 /@
    L(A AM name12l440PQ#ool(ath2 value12/opt/issued8*/tool2 /@
    L(A AM name12core(ath2 value12/opt/issued8*/core;ile2/@
    L(A AM name12cluster#7pe2 value12sin:le-inst2/@
  L/"3'4#0 @
  L0-- %Š <Œ i j ‡^ --@
  LP05I"03l4#@
    L0-- node*Œ i j ‡^ --@
    LP05I"0 sn12*#####2@
      L(A AM name12name2 value12iso;tnode92/@
      L(A AM name12a./ame2 value12AR*2/@
      L(A AM name12a.(riorit72 value12*2/@
      L0-- „ • < , Ž •@•'3 ' 8ackl(*“ sshl(* ” ( •
l( --@
  L(A AM name128acklp*2 value12*C9+*68+*46+*692/@
  L(A AM name12sshlp*2 value12*C9+*68+*46+*692/@

  L0--d8node--@
  L(A AM name12data/um2 value12*2/@
  L(A AM name12data(ortQase2 value1296#####2/@
  L(A AM name12data/ode*2 value12/opt/issued8*/data/d8*2/@
  L/P05I"0@
  L/P05I"03l4#@
L/ 66#@
06M
< œ
```

Ë Ñ A N	<	× Ø
ù ² • €	'ame	l 6 2 •



```

Qe:in to distri8ute packa:e to packa:e path+
4uccess;ull7 distri8ute packa:e to packa:e path+
4uccess;ull7 distri8uted packa:e+
Are 7ou sure 7ou <ant to create the userJommK and create trust ;or it
(7es/no!N 7es -- ^ a « 7es
(lease enter pass<ord ;or cluster user+
(ass<ord: -- • omm ^ -
(lease enter pass<ord ;or cluster user a:ain+
(ass<ord: -- ® ^ a « omm ^ -
,enerate cluster user pass<ord ;iles success;ull7+

4uccess;ull7 created JommK user on all nodes+
(reparin: 44- service+
4uccess;ull7 prepared 44- service+
Installin: the tools in the cluster+
4uccess;ull7 installed the tools in the cluster+
"heckin: hostname mappin:+
4uccess;ull7 checked hostname mappin:+
"reatin: 44- trust ;or JommK user+
(lease enter pass<ord ;or current userJommK+
(ass<ord: -- ^ a « omm ^ -
"heckin: net<ork in;ormation+
All nodes in the net<ork are /ormal+
4uccess;ull7 checked net<ork in;ormation+
"reatin: 44- trust+
"reatin: the local ke7 ;ile+
4uccess;ull7 created the local ke7 ;iles+
Appendin: local IP to authori.ed_ke7s+
4uccess;ull7 appended local IP to authori.ed_ke7s+
'pdatin: the kno<n_hosts ;ile+
4uccess;ull7 updated the kno<n_hosts ;ile+
Appendin: authori.ed_ke7 on the remote node+
4uccess;ull7 appended authori.ed_ke7 on all remote node+
"heckin: common authentication ;ile content+
4uccess;ull7 checked common authentication content+
Pistri8utin: 44- trust ;ile to all node+
Pistri8utin: trust ke7s ;ile to all node success;ull7+
4uccess;ull7 distri8uted 44- trust ;ile to all node+
5eri;7in: 44- trust on all hosts+
4uccess;ull7 veri;ied 44- trust on all hosts+
4uccess;ull7 created 44- trust+
4uccess;ull7 created 44- trust ;or JommK user+
"heckin: 64 so;t<are+
4uccess;ull7 check os so;t<are+
"heckin: 64 version+
4uccess;ull7 checked 64 version+
"reatin: clusterDs path+
4uccess;ull7 created clusterDs path+
4et and check 64 parameter+
4ettin: 64 parameters+
4uccess;ull7 set 64 parameters+
Uarnin:: Installation environment contains some <arnin: messa:es+
(lease :et more details 87 2/opt/so;t<are/issed8/script/:s_checkos -i A
-h node*Fnode9FIIIMBC-d8= --detail2+
4et and check 64 parameter completed+

```

```
(reparin: " 6/ service+
4uccess;ull7 prepared " 6/ service+
4ettin: user environmental varia8les+
4uccess;ull7 set user environmental varia8les+
4ettin: the d7namic link li8rar7+
4uccess;ull7 set the d7namic link li8rar7+
4ettin: "ore ;ile
4uccess;ull7 set core path+
4ettin: pssh path
4uccess;ull7 set pssh path+
4ettin: ":roup+
4uccess;ull7 set ":roup+
4et A M 6ptimi.ation+
/o need to set A M 6ptimi.ation+
Mixin: server packa:e o<ner+
4ettin: ;inish ;la:+
4uccess;ull7 set ;inish ;la:+
```



```

@ --dn-:uc12shared_8u;;ers1*98MQ2 X
@ --dn-:uc12cstore_8u;;ers1*6MQ2
(arsin: the con;i:uration ;ile+
"heck preinstall on ever7 node+
4uccess;ull7 checked preinstall on ever7 node+
4uccess;ull7 created the 8ackup director7+
8e:in deplo7++
Installin: the cluster+
8e:in prepare Install "luster++
"heckin: the installation environment on all nodes+
8e:in install "luster++
Installin: applications on all nodes+
4uccess;ull7 created the 8ackup director7+
8e:in init Instance++
encr7pt cipher and rand ;iles ;or data8ase+
(lease enter pass<ord ;or data8ase:
    it ;or data8ase:
J,A'44-%&=&6K : #he pass<ord o; data8ase is incorrect+#he t<o pass<ords
are di;;erentF please enter pass<ord a:ain+
(lease enter pass<ord ;or data8ase:
(lease repeat ;or data8ase:
8e:in to create "A cert ;iles
#he sslcert <ill 8e :enerated in
l&opt/ias48/ans%asll/app/sh50p/es;der"tr/bmc:pQ" or data a pc0.09u_iXD p/sh;
43st ;o.0ve/e 1 e c c"rea0cpc cr v £"8a ast ;ol0a pt

```

```
su - omm

2 Z 2 ... 7 8 & ' è w x Â

cd /opt/so;t<are/issued8/script

2 Z 3 Å , « ¼‰ Š Â

+/:s_uninstall
```

« ¼ U ' ¢ v e 7 8 © DIBC & ' { ï 7 8 w x S(SS)D*G69) R w x ~
K DIBC Q 1 2 , f é • š v ò æ > Ë Ñ Â

".&.& 0 P b c

† ‡ ^ t

7 8 " •

î \$ % (SS)D* ý l ý m 9 : • Ñ v \$ % 1 2 " • ^ ‰ #

1 2	× Ø
À Á ± f	2 ú • d 6 E F 6
L M : ;	; < Â Š 5 Ñ
! 1 2 " •	Q R 5 Ñ
À ! 1 2 " •	Ä R 5 Ñ

7 8 › &

! -
• € ä) • ,

: w 2 •	¬ - × Ø	m 5
l 6 2	4\$de1¥4\$de2	l m l 6 2
(1 B ¢	192.168.146.130¥192.168.146.131	l m l 6 2 (1

: w 2 •	¬ - × Ø	m 5
ä) ¯	5000 ¥ 26000	cm ! ^ ä) ¥ D* '\$de ! ^ ä)

» 2 VW

: w 2 •	2 •	α A N	VW Í t
» 2	\$mm	L M : ;	< “ ® 3
2	dbg#p	L M : ;	< “ ® 3

! w x VW

w x 2 •	R 2 •	w x M
<\$pt<s\$+Da#e<ssedb	s\$+Da#e	7 8 ! X ó w x
<\$pt<ssedb<app	(SS)D*-pp1ath	7 8 w x
<\$pt<ssedb<!\$g<ssedb	(SS)D*L\$g1ath	G r w x
<\$pt<ssedb<data<d1<	data4\$de1	l m / X ó w x
<\$pt<ssedb<tmp	tmp9ppdb1ath	– ì ! w x
<\$pt<ssedb<t\$\$!	(SS)D*2\$\$!1ath	s ^ w x
<\$pt<ssedb<c\$#eR!e	c\$#e1ath	c\$#e ! w x
<\$pt<ssedb<cm	cmD&#	59 w x

T , @ / l 6 2 •

2 Z 1 Ù ô è @ / Å , #

5i /etc/hostname
0/hostname

```
hostnamectl set-hostname node9 E • a b c i j *C9+*68+*46+*=* z {  
2 Z 2 T , @ / <etc<h$sts
```

```
vi /etc/hosts  
*C9+*68+*46+*=& node*  
*C9+*68+*46+*=* node9
```

```
£ Í 7 8 » K w x  
2 Z 1 î #$$t » [ x L M : ; Â  
2 Z 2 £ Í 7 8 » { § £ j ~ v T ! " Þ 8 { N " ^ q T ... 2 o  
ü U | ý ø ~ Â
```

```
useradd -m omm  
pass<d omm)9&9=
```

```
ÅÆÇ ; < 3 7 8 ' 3 È O P a b c m R É A " É 4 5 µ { Ê Ë ]  
P Â  
2 Z 3 { l / ~ £ Í ! w x { § £ j ~
```

```
mkdir -p /opt/so;t<are/issed8/  
chmod $%% - /opt/so;t<are
```

```
ø Ž ³ ´ 7 Ü  
2 Z 1 H(Ös(•ff)ñ $$$D »Q^01/M[:...; Â  
2 Z 2 Å , j /& <etc<secu#&t%<!&m&ts.c$'U v è ! ' " • Ý ^ % ¢ ³ v æ X " ‡ Â
```

```
issed8 so;t nproc unlimited  
issed8 hard nproc unlimited  
issed8 so;t stack unlimited  
issed8 hard stack unlimited  
issed8 ██████████  
issed8 hard core unlimited  
issed8 so;t memlock unlimited  
issed8 hard memlock unlimited  
██████████
```

/ 2 •	(1	\ ß ä)
l /	192.168.146.157	5432ß5433ß26001ß26002ß26003
m /	192.168.146.158	5432ß5433ß26001ß26002ß26003

— ~ ™ !

: ; † 1 2 • ,
™ \$ ù ¢ ³ R l m / L M : ; 1 2 , • , v î % L M 5 û N •
#\$\$t » Å , Â
NO • ,
X NO v ; j ä) Â
• ,
– î è ï X S)L(40K Â
ì ó Ò 2 • ,
j k 9 : — ¥ | , ý o ì ó Ò 2 Â
x & [x • ,
T , #\$\$t r s x & [x Â
: ; ¢ / < • ,
: ; 1 2 Ë 6 Æ Ç • , : ; ¢ / < Â
< T ,
X 3em\$/e(15 Â
8
7 8 å < Â
%¼ U § 7 8 <

```
-- %¼ Q R r
cd /opt/so;t<are/issed8
<:et https://issed8-%+o8s+cn-north-4+m7hua<eicloud+com/issed8/centos-
x86_64/issed8-%&+&-"ent64-x86_64-A33+tar+:.
E s t Q R r F s t issed8-%&+&-"ent64-648it-all+tar+:. u 4 v w +sha9%6 m R
x y z { | } ~ • € J,A'44-%&9&*K : #he /opt/so;t<are/issed8/issed8-
9+&+&- ed-at-648it+sha9%6 does not exist+

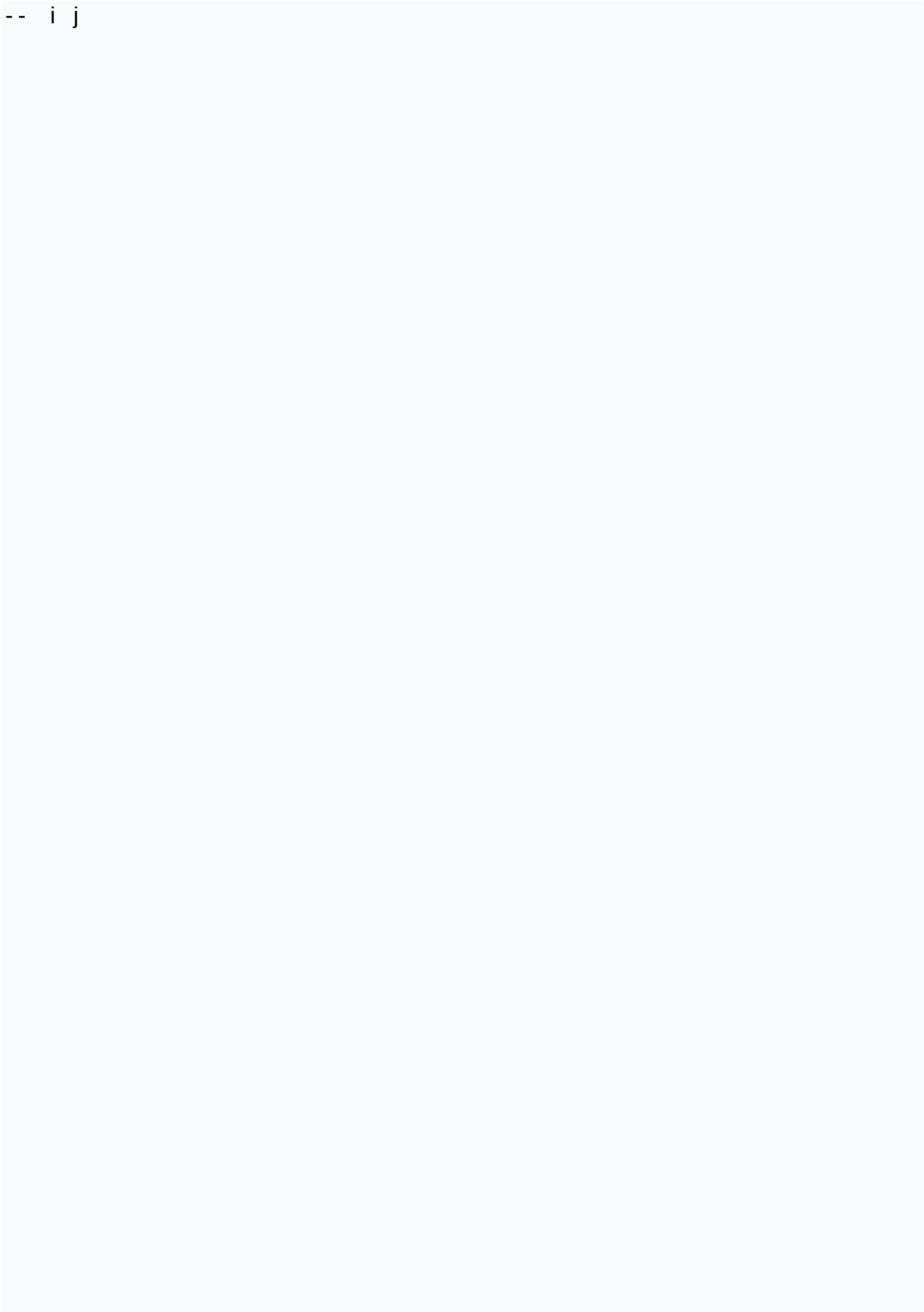
tar -.xv; issed8-%&+&-"ent64-648it-all+tar+:.
tar -.xv; issed8-%&+&-"ent64-648it-om+tar+:.
tar -.xv; issed8-%&+&-"ent64-648it-cm+tar+:.
```

£ Í · , !

· , K9L ! { | / ~

“ © H ² N ” N •] P

-- i j



L0--"M í Ž Ō Ő í • i j 8 À Ñ Ò ip--@
L(A AM name12cm4erver3istenIp*2
value12*C9+*68+*46+*%\$F*C9+*68+*46+*%82 /@
L(A AM name12cm4erver elation2
value12op_masterFop_slave2 /@

L0--d8node--@
L(A AM name12data/um2 value12*2/@
L0--PQnode Ó ñ Ö --@
L(A AM name12data(ortQase2 value1296&&&2/@
L0--PQnode i j Œ a b U V Ä × a b U V --@
L(A AM name12data/ode*2
value12/opt/issed8/install/data/d8*Fop_slaveF/opt/issed8/install/data/
d8*2/@
L0--PQnode i j Œ • Æ () Ø + i j a --@
L(A AM name12dataop_master_s7nc/um2 value12&2/@
L/P05I"0@

L0-- op_slave Œ i j ‡ ^ ¢ ~ 2name2 Ù Ú × 8 ì
(hostname! --@
LP05I"0 sn12*&&&&92@
L(A AM name12name2 value12op_slave2/@
L(A AM name12a./ame2 value12AR*2/@
L(A AM name12a.(riorit72 value12*2/@
L0-- „ • < , Ž • @ • ‘ 3 ’ 8ackI(* “ sshI(* ” (•
I(--@
L(A AM name128ackIp*2 value12*C9+*68+*46+*%82/@
L(A AM name12sshIp*2 value12*C9+*68+*46+*%82/@
L(A AM name12cmPir2 value12/opt/issed8/install/data/cm2 /@
L/P05I"0@
L/P05I"03I4#@
L/ 66#@
06M

< œ

' (	
ù ² • €	'ame
aM4ame	> aM4ame { -/a!lab!e .\$'e 4ame ~ v H I J { Ö Œ Ñ Ý H I ~ v Ã ^ -.1¥ -.2¥ -.3Â
aM1#i\$#t%	> aM1#i\$#t% © Ž Â
bac"(p1	I 6 è ¨ ä X Y 3 4 © (1 B ¢ { ¢ 3 (1 ~ Â Ñ (SS)D* I 6 • ¨ ä X Y 3 4 Ÿ _ Â
ssh(p1	T , SSG i / g ° N e { " (• ô ñ 0 G ñ / 1aa^ó

' (	
	T , l l : = Ò bac"(p1 T , Q Ò (1 Â

! " ´ 7 8 1 2

```
E root 3 7 i j ; <

-- • li8 c
export 3P_3lQ A S_(A#-1/opt/so;t<are/issued8/script/l4p7li8/cli8:
>3P_3lQ A S_(A#-

-- z { | z {
p7thon= /opt/so;t<are/issued8/script/:s_preinstall -' omm -, d8:rp -T
/opt/so;t<are/issued8/cluster_con;i:+xml
E | z { — ~ ™ e f š > æ • ž so;t<are UV m R å | š i j ' i j
scripts ssh-a:ent+shæ • Ÿ | š / /root/+ssh/UV z { i ' £ ¢ ,
f ž omm 3 7 % • i j /etc/pro;ile • ¥ |
E | z { § " z { — ' ~ > /opt/issued8/lo:/omm/om UV

E z { — — ' ~ > /opt/issued8/lo:/omm/om UV :s_preinstall e f m R
:s_preinstall_xxx+lo:::::2o:
```

```

4success;ull7 installed the tools in the cluster+
"heckin: hostname mappin:+
4success;ull7 checked hostname mappin:+
"reatin: 44- trust ;or JommK user+
(lease enter pass<ord ;or current userJommK+
(ass<ord: -- a « omm - -
"heckin: net<ork in;ormation+
All nodes in the net<ork are /ormal+
4success;ull7 checked net<ork in;ormation+
"reatin: 44- trust+
"reatin: the local ke7 ;ile+
4success;ull7 created the local ke7 ;iles+
Appendin: local IP to authori.ed_ke7s+
4success;ull7 appended local IP to authori.ed_ke7s+
'pdatin: the kno<n_hosts ;ile+
4success;ull7 updated the kno<n_hosts ;ile+
Appendin: authori.ed_ke7 on the remote node+
4success;ull7 appended authori.ed_ke7 on all remote node+
"heckin: common authentication ;ile content+
4success;ull7 checked common authentication content+
Pistri8utin: 44- trust ;ile to all node+
Pistri8utin: trust ke7s ;ile to all node success;ull7+
4success;ull7 distri8uted 44- trust ;ile to all node+
5eri;7in: 44- trust on all hosts+
4success;ull7 veri;ied 44- trust on all hosts+
4success;ull7 created 44- trust+
4success;ull7 created 44- trust ;or JommK user+
"heckin: 64 so;t<are+
4success;ull7 check os so;t<are+
"heckin: 64 version+
4success;ull7 checked 64 version+
"reatin: clusterDs path+
4success;ull7 created clusterDs path+
4et and check 64 parameter+
4ettin: 64 parameters+
4success;ull7 set 64 parameters+
Uarnin:: Installation environment contains some <arnin: messa:es+
(lease :et more details 87 2/opt/so;t<are/issed8/script/:s_checkos -i A
-h node*Fnode9Fissed8-d8= --detail2+
4et and check 64 parameter completed+
(reparin: " 6/ service+
4success;ull7 prepared " 6/ service+
4ettin: user environmental varia8les+
4success;ull7 set user environmental varia8les+
4ettin: the d7namic link li8rar7+
4success;ull7 set the d7namic link li8rar7+
4ettin: "ore ;ile
4success;ull7 set core path+
4ettin: pssh path
4success;ull7 set pssh path+
4ettin: ":roup+
4success;ull7 set ":roup+
4et A M 6ptimi.ation+
/o need to set A M 6ptimi.ation+
Mixin: server packa:e o<ner+

```

```

4ettin: ;inish ;la:+
4uccess;ull7 set ;inish ;la:+
(reinstallation succeeded+

-- ~ > | O P © • ‡ ^ i ¯ b | } ~ ° ... = a
Jroot)op_master scriptKE /opt/so;t<are/issed8/script/:s_checkos -i A -h
op_masterFop_slave --detail
"heckin: items:
    A*+ J 64 version status K                                     : /ormal
        Jop_slaveK
        centos_$(cat /etc/redhat-release | grep -oP '(?<=centos-)[0-9]+')_64bit
        Jop_masterK
        centos_$(cat /etc/redhat-release | grep -oP '(?<=centos-)[0-9]+')_64bit
    A9+ J Vernel version status K                                 : /ormal
        #he names about all kernel versions are same+ #he value is
2=+*&+&-C%$+el$+x86_64+
    A=+ J 'nicode status K                                       : /ormal
        #he values o; all unicode are same+ #he value is 23A/,1en_'4+'#M-
82+
    A4+ J #ime .one status K                                     : /ormal
        #he in;ormations about all time.ones are same+ #he value is
2W&8&&2
    A%+ J 4<ap memor7 status K                                   :
Uarnin:
    Jop_slaveK
4<apMemor7 4*6&$4$9 #otalMemor7 4*9=&&C&94
    Jop_masterK
4<apMemor7 4*6&$4$9 #otalMemor7 4*9=&*$9*6
    A6+ J 47stem control parameters status K                   : /ormal
        All values about s7stem control parameters are correct+
    A$+ J Mile s7stem con;:uration status K                     : /ormal
        Qoth so;t no;ile and hard no;ile are correct+
    A8+ J Pisk con;:uration status K                             : /ormal
        #he value about TM4 mount parameters is correct+
    AC+ J (re-read 8lock size status K                           : /ormal
        #he value about 3o:ical 8lock size is correct+
    A**+J /et<ork card con;:uration status K                   : Uarnin:
        Jop_slaveK
QondMode /ull
        Uarnin: reason: net<ork Dens==D DmtuD eal5alue D*%&&D
0xpected5alue D8*C9D
        Jop_masterK
QondMode /ull
        Uarnin: reason: net<ork Dens==D DmtuD eal5alue D*%&&D
0xpected5alue D8*C9D

    A*9+J #ime consistenc7 status K                             :
Uarnin:
    Jop_masterK
        #he /#(P not detected on machine and local time is 29&9=-&$-9%
*%:9=:442+
    Jop_slaveK
        #he /#(P not detected on machine and local time is 29&9=-&$-9%
*%:9=:442+

```



```
Install in: applications on all nodes+
4uccess;ull7 installed A((+
8e:in init Instance++
encr7pt cipher and rand ;iles ;or data8ase+
(lease enter pass<ord ;or data8ase:
(lease repeat ;or data8ase:
J,A'44-%&=&6K : #he pass<ord o; data8ase is incorrect+#he t<o pass<ords
are di;;erentF please enter pass<ord a:ain+
(lease enter pass<ord ;or data8ase:
(lease repeat ;or data8ase:
8e:in to create "A cert ;iles
#he      sslcert      <ill      8e      :enerated      in
/opt/issed8/install/app/share/sslcert/om
```

¬>Ž••' '

&.1 " " •

&.1.1 – •

¬™š>œ

¬ - # ° R n Â

£ n A N # K T ... Q Ò Â

•žŸš jœ

¬ - # ± & Â

£ n A N # d\$ub!e p#ec!s!\$'

•£œš>œ

¬ - # Ö < © Ò © ù Â

£ n A N # ù Â

£ž££™š jœ

¬ - # + ² 9 O · E 9 Â

£ n A N # d\$ub!e p#ec!s!\$'

£>jš>œ

¬ - # £ p > Â

£ n A N # dp \$# 'ume#c v Öœ 7 X } A N O P ©ÆÇ% † T ... Q Ò Â

!œšžš>œ

¬ - # Ö < © Ò ù Â

£ n A N # † T ... Q Ò Â

œ"š>œ

¬ - # £ p R Â

£ n A N # dp \$# 'ume#c v Öœ 7 X } A N O P ©ÆÇ% † T ... Q Ò Â

Ã #

œšŸš>œ

¬ - # î 10 · ³ © R Â

£ n A N # † T ... Q Ò Â

¤§¥Š~ "©ª¢Ž£•« > "©ª¢Ž£•œ

¬ - # î b · ³ © R Â

£ n A N # 'ume#łc

ª§ Š>«¬œ

¬ - # F<% © Â { Z ~ Â ^ ¢ F Ž 0 v ċ £ 0 Â

£ n A N # † < A N Q Ò Â

¡£Šœ

¬ - # " ZL (f Â

£ n A N # d\$ub!e p#ecłsł\$'

¡§-¢Žš- §©~¤¢ ¡Ž¢•£™£§"« ~ §©~¤¢ ¡Ž¢•£™£§"œ

¬ - # a © b o ´ Â

£ n A N # d\$ub!e p#ecłsł\$'

Ž- £-™Š ¡œ

¬ - # + E 9 O · ² 9 Â

£ n A N # d\$ub!e p#ecłsł\$'

Ž-" §ªšœ

¬ - # 0.0 å 1.0 ó © µ 6 Â

£ n A N # d\$ub!e p#ecłsł\$'

Ž§©" Š>œ

¬ - # ¶ T ... < Ò · © ù Â

£ n A N # † T ... Q Ò Â

Ž§©" Š® "©ª¢Ž£•« ™ £"Ÿœ

¬ - # æ> ¢ s v s ¢ ý , , ¹ ° ... Â

£ n A N # 'ume#łc

™£¥"Š>œ

¬ - # T ‡ ™ < © I ¯ Â

£ n A N # 71 G » v 0 G 0 v 1 G M Â

™¯ŽŸŠ>œ

¬ - # = & Â

£ n A N # dp \$# 'ume#c v Ö 7 X } A N O P © Æ Ç % † T ... Q Ò Â

ŸŽ©"•š>œ

¬ - # » { ù \$ Û ~ Â

£ n A N # † T ... Q Ò Â

ŸŽ©"•š® "©ª¢ž£•« ™ £"Ÿœ

¬ - # » · s Â

£ n A N # 'ume#c

&.1." ° ± • 2 3

—•§™š>œ

¬ - # ¼ Â ½ Â

£ n A N # d\$ub!e p#ec!s!\$'

—™£"š>œ

¬ - # ¼ M ½ Â

£ n A N # d\$ub!e p#ec!s!\$'

—Ÿ—"š>œ

¬ - # ¼ M n Â

£ n A N # d\$ub!e p#ec!s!\$'

—Ÿ—"š¬« >œ

¬ - # %<F © ¼ M n Â

£ n A N # d\$ub!e p#ec!s!\$'

•§™š>œ

¬ - # Â ½ Â

£ n A N # d\$ub!e p#ec!s!\$'

•§Ÿš>œ

¬ - # Â n Â

£ n A N # d\$ub!e p#ec!s!\$'

™£"š>œ

¬ - # M ½ Â

£ n A N # d\$ub!e p#ec!s!\$'

Ÿ-Š>œ

↳ - # M n Â

£ n A N # d\$ub!e p#ec&s!\$'

&.1.& ´ µ ¶ • s t µ

™ŸŽ£"¥ .. ™ŸŽ£"¥

↳ - # 5 (H I J Â

£ n A N # teFt

~£Ÿ, ¢"¥Ÿ¹š™ŸŽ£"¥œ

↳ - # H I J © Â

£ n A N # &'t

•§"¢žŸš™ŸŽ£"¥ ~Ÿ¢-« ™ž, ¢"•§ £"¥ "–ª¢« ¢™Ÿ, ¢"•§ £"¥ "–ª¢œ

↳ - # î dest_e'c\$d&'g > ©w " a 8 & } O ´ H I J b%teaÂs#c_e'c\$d&'g >

´ a 8 & } v è l a 8 %v st#&'g ¥ | ž É – © Â

£ n A N # b%tea

ª§-¢žš™ŸŽ£"¥œ

↳ - # + H I J O ´ . b Â

£ n A N # /a#cha#

§•Ÿ¢Ÿ, ¢"¥Ÿ¹š™ŸŽ£"¥œ

↳ - # H I J © H / Â

£ n A N # &'t

§¢¢žª–Ÿ™ŸŽ£"¥ |ª–•£"¥ ™ŸŽ£"¥ °»¼½ £"Ÿ ¼|§ž £"Ÿžœ

↳ - #] P ¾ H I J Â>369 &'t G \ ý ú st#&'g © \ ¿ ú H I ; "] P v

U\$&'t G] P \ ý ú st#&'g © H I w Â

£ n A N # teFt

¡§™£Ÿ£§"š™©~™ŸŽ£"¥ £" ™ŸŽ£"¥œ

↳ - # > ¾ H I J © , Â H I J b Ù b Â

£ n A N # &'tv H I J Ö X è ì £ 0 Â

™©~™ŸŽ£"¥š™ŸŽ£"¥ ¼|žšª £"Ÿ¿ ¼|šž £"Ÿ¿œ

¬ - # » ¾ H I J v U#\$m & 't G \ ¿ ú H I ; " » v U\$# & 't G » ¿
ú H / Â

£ n A N # teFt

™©~™ŸŽ£"¥š™ŸŽ£"¥ |žšª |–ŸŸ¢ž"œ

¬ - # » À · 16S(K M ç G H } ©¾ H I J Â ^ ¢ W Ñ À · Á £ * n v
ç £ À · Z } © Â \$ Û Â

£ n A N # teFt

Ÿž£ªš¼¢– £"¥ ·Ÿž–£¢£"¥ ·~šŸ¹¿ ¼•¹–ž–•Ÿ¢ž™¿ |žšª ™ŸŽ£"¥œ

¬ - # H I J st#&'g © ; Ã ¥ q “ ° Ä • š Đ < Æ cha#acte#s H I { Å Æ
ž ý ú * ~ © Ò } © H I J Â

£ n A N # /a#cha#

©i|¢žš™ŸŽ£"¥œ

¬ - # + H I J O ´ · b Â

£ n A N # /a#cha#

–™•££š™ŸŽ£"¥œ

¬ - # < st#&'g © \ ý ú H I © -S5((8 Â

£ n A N # & 'tege#

(1 #SD)

~Ÿž£ªš™ŸŽ£"¥ Ÿ¢>Ÿ ¼« •¹–ž–•Ÿ¢ž™ Ÿ¢>Ÿ¿œ

¬ - # st#&'g ; Ã K q “ • š Đ < Æ cha#acte#s H I { Å Æ ž * ~ © Ò }
H I J Â

£ n A N # teFt

•¹žš£"Ÿ¢¥¢žœ

¬ - # Š ‡ -S5((8 © H I Â

£ n A N # /a#cha#

•š"®¢žŸš™ŸŽ£"¥ ~¬Ÿ¢–« ™ž•, ¢"•š £"¥ "–ª¢« ¢™Ÿ, ¢"•š £"¥

"–ª¢œ

¬ - # î dest_e'c\$d&'g > © w " a 8 & } O ´ H I J b%tea Âs#c_e'c\$d&'g >
´ a 8 & } v è l a 8 % v st#&'g ¥ | ž É – © Â

£ n A N # b%tea

£"£Ÿ•—įš™Ÿž£"¥œ

¬ - # H I J © ' ú 5 Ç ©™HÈO´ . b v | š HÈO´ . b Â

£ n A N # teFt

¤¢"¥Ÿ¹š™Ÿž£"¥œ

¬ - # < st#ł'g H I © w Â

£ n A N # &'tege#

¤į— š™Ÿž£"¥ Ÿ¢>Ÿ« ¤¢"¥Ÿ¹ £"Ÿ ¾« |£¤¤ Ÿ¢>Ÿłœ

¬ - # Ÿ Ã É Ê H I R!! { ÅÆ ì . * ~ v + st#ł'g É Ê . !e'gth } 9 Â ^ ¢
st#ł'g e f Q !e'gth } ç | " \$ » Â

£ n A N # teFt

¤Ÿž£ªš™Ÿž£"¥ ¾« •¹—ž—•Ÿ¢ž™łœ

¬ - # H I J st#ł'g © ; Ã • š Đ < Æ cha#acte#s H I { ÅÆ ž ý ú * ~
© Ò } © H I J Â

£ n A N # /a#cha#

a Àš™Ÿž£"¥œ

¬ - # st#ł'g • 9D5 Ý Þ v û î 16 Ü M • £ n Â
> × Ø # >9D5 Ý Þ — 7 | ; v X è 7 | K L v Ö Í t • Â

£ n A N # teFt

ž¢į¢—Ÿš™Ÿž£"¥ Ÿ¢>Ÿ« "ª~¢ž £"Ÿ œ

¬ - # st#ł'g ^ q 'umbe# o Â

£ n A N # teFt Â

ž¢įª—•¢š™Ÿž£"¥ Ÿ¢>Ÿ« |žšª Ÿ¢>Ÿ« Ÿš Ÿ¢>Ÿœ

¬ - # + H I J st#ł'g ª ‡ ì © Ñ¾H I J U#\$m © ¢ ³] P ´ ¾H I J t\$ ©
¢ ³ Â

£ n A N # teFt

žį— š™Ÿž£"¥ Ÿ¢>Ÿ« ¤¢"¥Ÿ¹ £"Ÿ ¾« |£¤¤ Ÿ¢>Ÿłœ

¬ - # • É Ê H I R!! { ÅÆ ì . * ~ v + st#ł'g É Ê å !e'gth } 9 Â ^ ¢
st#ł'g e f Q !e'gth } ç | " \$ » Â

£ n A N # teFt

ŽŸŽ£ªŠ™ŸŽ£¨¥ ŸŸ>Ÿ ¼« •¹–Ž–•ŸŸŽ™ ŸŸ>ŸŸœ

¬ - # H I J st#l'g © q “ • š Đ < Œ cha#acte#s H I { Å Æ ž ú * ~ ©
Ò } © H I J Â
£ n A N # teFt

™i¤£Ÿ, i–ŽŸŠ™ŸŽ£¨¥ ŸŸ>Ÿ« ¢¤£ª£ŸŸŽ ŸŸ>Ÿ« ¦£¤¤ £¨Ÿœ

¬ - # de!m!te# Û Ë st#l'g £ • ‘ © \ Re!d ú ¾ H I J { ‡ ì \ ý ú
de!m!te# © teFt · å ~ Â
£ n A N # teFt

™ŸŽiŠ™Š™ŸŽ£¨¥« ™©~™ŸŽ£¨¥œ

¬ - # > © ¾ H I J © , Â K p\$sl8\$'(subst#l'g &' st#l'g) ý v Ö Ã < ì
' Q ¼ Â
£ n A N # &'t

ŸŸ, ¹Ÿ>š¨©ª~ŸŽ £¨Ÿ ŸŽ ~£¥£¨Ÿœ

¬ - # + 'umbe# O P ‘ í î Ü G ì + } Â
m!t
£ n A N # teFt

ŸŽ–¨™¤–ŸŸŠ™ŸŽ£¨¥ ŸŸ>Ÿ« ¦žšª ŸŸ>Ÿ« ŸŸ ŸŸ>Ÿœ

¬ - # + è st#l'g < Œ©] Þ À · U#\$m H I © H I O ´ · R © è t\$ ©
H I Â ^ ¢ U#\$m Q t\$ } v • J è U#\$m ‡ ì © Ĩ Ö © H I Â
£ n A N # teFt

&.1.) " Á Â Ã Ä •

ŸŸ, •¹–žšŸ£ªŸ™Ÿ–ªi« ŸŸ>Ÿœ

¬ - # ì ó A N © n O P · > | } © H I J Â
£ n A N ¢ teF# 8 Ÿ Q / # n

ŸŸ, •¹–žš£¨ŸŸŽŸ–¤« ŸŸ>Ÿœ

Ë - # ì ó ó Ë A N © n ß Q / H ™ ý õ ñ t %š+ • C ~ ' p Ĩ ? %Ÿ 9

ŸŸ, •1–žš Ÿ@~¤¢ ºž¢•£™£Ÿ"Äž¢–¤« Ÿ¢›Ÿœ

¬ - # Ð A N © n O P · > | } © H I J Â
£ n A N # teFt

ŸŸ, •1–žš"©ª¢ž£•« Ÿ¢›Ÿœ

¬ - # H A N © n O P · > | } © H I J Â
£ n A N # teFt

ŸŸ, –Ÿ¢šŸ¢›Ÿ« Ÿ¢›Ÿœ

¬ - # H I J A N © n O P · > | } © G 8 Â
£ n A N # 8mestamp Dłth\$ut 8me M\$'e

ŸŸ, "©ª~¢žšŸ¢›Ÿ« Ÿ¢›Ÿœ

¬ - # H I J A N © n O P · > | } © H Â
£ n A N # 'ume#c

ŸŸ, Ÿ£ª¢™Ÿ–ª ºšŸ¢›Ÿ« Ÿ¢›Ÿœ

¬ - # H I J A N © n O P · > | } © ì ó Â
£ n A N # 8mestamp

ŸŸ, Ÿ£ª¢™Ÿ–ª ºš Ÿ@~¤¢ ºž¢•£™£Ÿ"œ

¬ - # + 04(K Ñ Å O P ‘ ì ó Â
£ n A N # 8mestamp Dłth 8me M\$'e

&." Æ Ç 2 3

&." .1È–Ÿ–~–™¢ É•1¢ª– Ê Ë

(SS)D* Ÿ î • Database K Schema È ì ¹ Á © È ¶ v b ô è Database ©
È ¶ p Ý Ò ³ v @ ú Database ó ö A ³ ´ C ñ v Ÿ È ì 5 (È ¶ ¥ 6 7 È ¶
® v Database ó « – ... (V Û Â Schema È ¶ © & } ö ³ ´ H ¯ v Ÿ î Ÿ Ã
g#a't † #e/\$"e • – ð Ó B ¨ Ü Ö Ò » R@ Schema | % ¢ R S © 6 7 Â
ð Ó K ³ ´ ö A ½ † Æ 7 v ï ð • Schema , ¹ Á È ¶ Â
Í t : ; c d e £ Í Schema K Database v Ô Õ Q » R © 6 7 Â

È–Ÿ–~–™¢ Ê Ë Ì Í

Ö V ç × è È 6 ¹ Á v N " £ Í n © Database v Ö Í t ... (•

Ë Ã \ ß © p\$stg#es Â
Ö Í t × ý ú Ë Ã ¢ v » £ j © Database f Í t Ö < Ã 3 ú Â
Ö Í t × · î | Ø ´ © N · v · a 8 X Y † G ° ¯ © H
I v Í t £ Í Database © ì Ù · 02>78 a 8 Â
Ö 5 × £ Í Database ì v N " ^ 5 H I 9 a 8 {)456D(4, ~ K ² ³
{ D*5691-2*(L(2: ~ ° ú · , : Â(SS)D* a « - ¥ * ¥ 5 K 1, , ° ² ³ Z } v
Ù ô G ² ³ 6 · - ¥ 9 : · - ¥ 2D · - K 16S2,3)S · - v Ö Ò ² ³ Z } %©
· - , · X è ý Ú A v \ ß · - ² ³ Z } Â
Ö 5 × Database © \$D'e# \ ß m Ñ I Database % Ñ R S © Ñ 6 7 v <
· š 6 7 Â · š 6 7 ü Ñ H v Ë Û Ü · Â

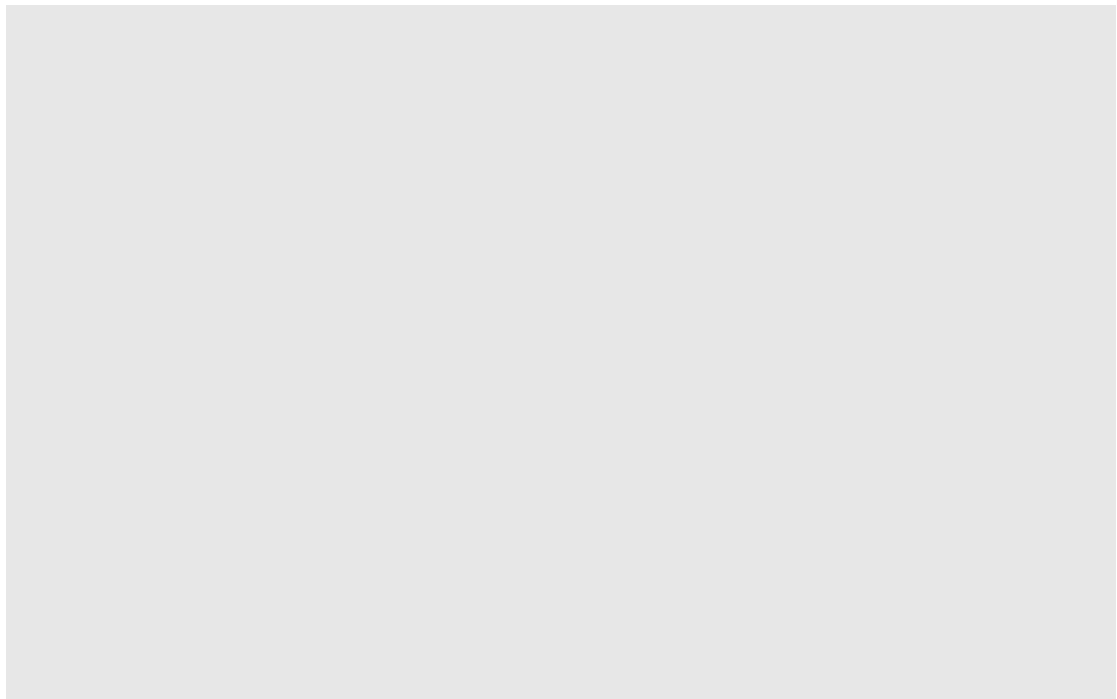
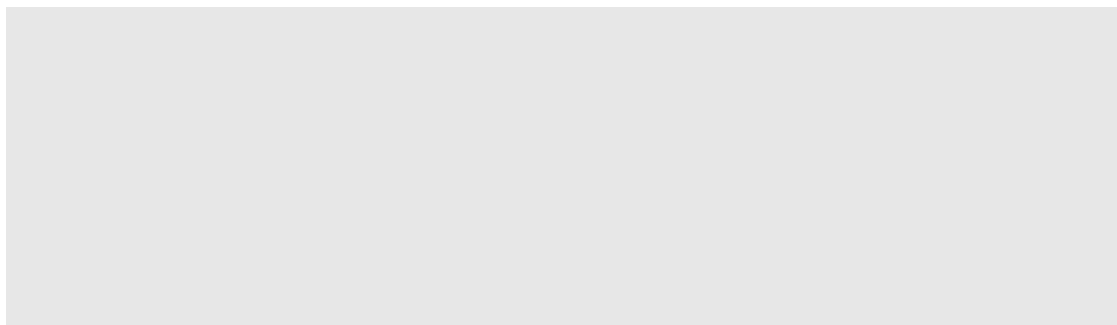
É•¹¢ª— Ê Ë Ì Í

Ö 5 × ^ ¢ I » Ö ^ Ñ s%adm' 6 7 = Ö ž I Schema © \$D'e# v " Û '
Schema %© R S v N " Ò ì Š » Ô Õ Schema © usage 6 7 K R S © Q 6
7 Â
Ö 5 × ^ ¢ " è Schema % £ Í R S v N " Ý Õ L M » I Schema © c#eate
6 7 Â
Ö 5 × Schema © \$D'e# \ ß m Ñ I Schema % R S © Ñ 6 7 v < · š 6
7 Â · š 6 7 ü Ñ H v Ë Û Ü · Â

&."." ³ Ê Ë

(SS)D* © Ù J è@ú D4 Â . ² Þ v ß ' © G T U N " à á î %o o ç #
Ö 5 × G > ~ Ù J è@ú D4 Â > ~ Ù J v § î i è \$
Ù D4 9 Ù J v ® „ ø — X Y â ã ä ' Ë Ã Ñ ½ ³ f % Â ÿ Ã
I m É î © Ù J F v § î | § â ã Â
Ö 5 × G © å ¬ § > ~ Ù î è@ú D4 Â | § å ¬ § 9 è \$ Ù D4
v ® „ ø " © Â Ã ^ v è . Ë G • ® n Ã æ™ ! ì v ÷ „ ø å ¬
§ Ö > ~ Â
Ö 5 × ç ñ N " å ¬ © f Â ÿ Ã Ù b G © è é 6 Ü § î ê ç ñ ©
å ¬ f Â
Ö 5 × è f ç ñ µ 6 (<6 Â ÿ Ã ž ì < ¥ \$ ž ì § î Ë Ì Ô © 5 X Y v
µ 6 (<6 O P · 5 (<6 v ® ç ñ å ¬ © (<6 t í Â

Ö 5 × ë *f* ‡ § shu[eÂshu[e v ž > è • d v ý ú / ó ` 0 ² b



Ö Í t × • ^ Ñ Ø ÷ b ó © H [, Û b v Q ^ G 8 ¥ b • ® H [Í ±
Û b Â

Ö Í t × Û b 2 • ò ² ì Û b © ø Â Ã ^ v Ê H E b ó ø Â

Ö Í t × Û b Ä ù © Û b n j · 9 -KH-L0) v î i § ‡ ì © ú
‡ Â

û N © Û b G j ^ % º #

53) -2) 2- *L) staXS_p1

(

>>staX_(D 40 9 *)3(6) '\$t 'u!!B

>>>(3S2_4 - 9) H-35G-32(20)B

>>L-S2_4 - 9) H-35G-32(25)B

>>) 9 -(L H-35G-32(25)B

>>1G64)_40 9 *)3 H-35G-32(20)B

>>G(3)_D-2) D-2)B

>>empl!\$%me't_(D H-35G-32(10)B

>>S-L-3: 40 9 *)3(8B2)B

>>56 9 9(SS(64_152 40 9 *)3(4B2)B

>>9 -4 - ,)3_(D 40 9 *)3(6)B

>>sec8\$'_(D 40 9 *)3(4)

)

1-32(2(64 *: 3-4 ,) (G(3)_D-2))

(

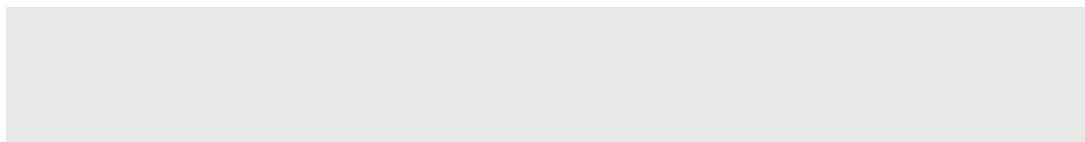
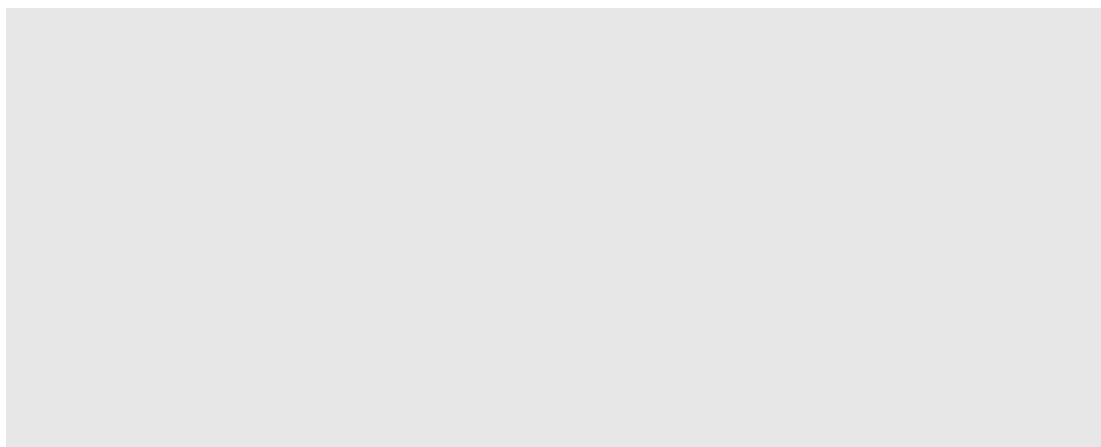
>>>1-32(2(64 G(3)_19950501 H-L0)S L)SS 2G-4 (Y1995705701 00Q00Q00Y)B

>>>1-32(2(64 G(3)_19950502 H-L0)S L)SS 2G-4 (Y1995705702 00Q00Q00Y)B

>>>1-32(2(64 G(3)_maF/a!ue H-L0)S L)SS 2G-4 (9 -KH-L0))

)C

Ö í t × I M ù J Ê © H [n I Q H ¶ Î



X Y A N	î
	, ¥ • ¥ Ž L M H ¯ © Â
F X	; U Û % A 4 Ĩ { ` ¥ Û L M H ¯ © ~ Â ĩ ô 4 Ĩ { 4 Ĩ ™ ! Ö v , X G å ¬ í î • . Æ ~ Â

&.".) ´ × Ê Ë

î ĩ " Á
è H [T U ì v 4 Ĩ ½ † © Æ 7 v ý ã à á î % o ç #
Ö Í t × ë f • • ½ A N Â
l m n A N ì v è ÷ ø ¹ Á 9 © Æ Ç % v l m A N © Ž • å ;
o · ù ¥ Ð ¥ 409) 3 (5 Â
Ö Í t × ò ¯ ú G X è y z : ì v G Ò ý Æ j © H [l • Q Ò ©
A N Â
Ö Í t × R H I J v í t • , } H I J A N v û > Ò } 9 Â
Ë Á ¥ æ > © Ò } 9 N " X Y © Ò H I v | § < ‡ Ò } 9 ì
‡ ì H I » ì S Â š Ü Ø ^a A N • } 9 H I J v ç v Ö Í t
• 5 G - 3 (') ¥ * 15 G - 3 (') ¥ 45 G - 3 (') ¥ 5 G - 3 - 52) 3 (') Â

&." .À Ø Û Ê Ë

È Ú ° Û Ü Ý Þ ß Ü Ý Ø Û
Ö Í t × ^ ¢ ¹ Á 9 | H [n v Â ý v Ö Ö Í t • D) > - 0 L 2 \] v
| § Ý ¼ ì • Ö l É 8 © q ¢ Â
Ö Í t × Š Ø Ö X è 40 L L n © H [Ý 462 40 L L \] v ´ ± ÷ è
% R | , £ k ´ Â
Ö Í t × Š § î ÷ } % 2 © \] ÷ } % 2 Â š 462 40 L L K D) > - 0 L 2 \] Ö v
| š \] § î ÷ } % 2 Â
à b á â
1a#8a! 5!uste# =e% { ¥ \$ ž ì v œ • 15= ~ ž F X G © ý ° ¥ \$ ž ì v è
(SS) D* v • 15= § î Ÿ Ã m ™ ' < ma F . Æ Ë ì . Ë G Ã æ å ¬ Â 15=
© l à á î % o ç #

Ö 5 × ý G Đ Í ± ý ú 15= v ý ú 15= § î < Æ ¯ F v õ ž ý ã Ö Í
t < Ã 2 F Â

Ö Í t × è 4 ï ©œ 5 G H } Ã æ™ ! £ Í 15= Â õ ° Ã æ™ ! ý ã + ^
c\$! \$p c\$'st v | c\$! · F 2 v \$p · L M I > A ¥ 0 ¥ 0 A ¥ @ A ¥ @ v c\$'st · (f n Â
Ö Í t × è ÷ ø ™ ! © — ~ % v l m d i s 8 ' c t n Q H ¯ © F Í 15= Â

ã ä ø ù

Ö 5 × , X G ¥ F X G > ª « ý \] Â
Ö Í t × % 2 Ø " ý \] v Ã ^ v % 2 · “ 04(E # ‘ H [” Â

% ó ø ù

Ö

r i s t

Ö Í t × š)2L & ' Ö v l ë f | § Ä ° » ä £ f q ¢ 9 © L M Â ^ ¢
q ¢ 9 Ã v Æ 7 ¹ Á T U ž É d Â

Ö Í t × • . Á & } Å , DDL K D9L L M Â Ã ^ v t#u'cate table ¥ update
table ¥ delete table ¥ d#Sp table ® L M v ý à Å , ~ ? Õ « – p q Â R õ A L
M v Í t • . Á , 8 v ¥ ” ì § î , Â

Ö Í t × è 4 Ĩ a b ì v Í t Ø F ‡ 4 Ĩ © Ñ H [v Ö Í t •

“ S)L)52 VL õ ° b – Â ý & Æ 7 v ë f ç ñ 4 Ĩ T ‡ F < î ý &

| § , • H [R — ä ¹ Á ² ³ © ü Ñ Â

Ö Í t × è Û ‘ G R S ì schema — v § î | § — schema n P „ ø Û ‘

å Ü 8 © G Â

Ö Í t × < Ã 3 G ^ _ , ` { ô ž >0LL?6(4 ~ ì v Å , t í í î

Â í t • ;(2G2-*L) -S • \$ £ Í ó – ì G © & } , Ý SQL • \$ © § ± Â

Ö Í t × — a 5 X ² ‘ uWh • ó y v # U <) p V Ÿ 7 ñ / ×

• ‘ © Å , UWÖ % ï v „ ø 4 Ĩ ^ ÿ ´ Â
Ö Í t × • % ì ó Q © #] P '\$D B Ÿ ò — ì ó Â — · '\$D B
• ‘ © Å , UW« — % ï v „ ø 4 Ĩ ^ ÿ ´ Â

&. & Ä g h

 c d @ A R S v † | š Ě ¶ Â £ Í R S ì § î >
R © G * ó v ^ ¢ Ö > Q © G * ó v Q © R S ÷ \ ß æ X è
1, _D)> - 0L2 * ó Â c d © R S § Û J è ¯ ú G * ó Â

G * ó

è (SS)D* v G * ó ž ý ú w x v § î X è ¯ ú v ^a X Y © ž Á < Æ ©
 © @ ° • d ! Â ß G * ó ž ý ú w x v ò ž • å • d Ě ¶ © M v
| c d ! : ; Â

Z }

(SS)D* © Z } ž R ä ý ú y z Û \$ Â Ñ © R S í ± è Z } %
 Â (SS)D* © Z } K » ž % & © v ' © % & ž > (p £ Í » © Ò ì
÷ £ k £ Í ý ú Ò 2 Z } v õ » ñ § î 5) £ Í Z } v û ü · » > | š
© Z } Â

» K E ©

(SS)D* • » K E © Ÿ ¨ Ü R © Û ´ Â E © £ i © T , Ö Ò v ý
ú E © § î f ä ž ý ú » v = ý » Â è (SS)D* E © K
 » ó © b ô Ð è E © \ ß ž W Ñ L 6 , (4 6 7 © Â è (SS)D* ý ú »
ý R ý ú E © v Ö Ñ § î • E © * Ý Ÿ p µ ¶ B , c d Â

. Á c d

è . Á c d v (SS)D* „ 9 H 55 { ¯ - û < ¨ Ü ~ q É ° + [¬ © & } v
| ž ± b ó Ö ` , Â (SS)D* W Ñ - ; ý X ó v ® ž K ò —
Â © - ó è ý • Â (SS)D* W Ñ [©) * v õ ž · 8 ^ š -

Æ... ý ú H-5009 P & Â ý ãÆÇ‰ » Ö 5 Á v š Ü " ä
Â™Ö v(SS)D* ž £ k ~ ? . Á Â

-> Ì C ố ' '

) . 1 O P İ C

r ñ 0 P ò j

\$mm `&s\$+ '\$de1 sc#&ptaS gs\$m 7t status 77deta&!

5!uste# State a

```
cluster_state 0 4$ma!
```

#ed&st#&bu8 'g Q 4\$

cu##e't_aM Q - ._-LL

_Data '\$de State a

```
>>>> '$de    '$de_&p    p$#t    &'sta'ce    state
```

[illegible]

```
1  &$s+'$de1 192.168.146.161 5432      6001 <$pt<ssedb1<data<d1  1 1#ma#%
```

4\$#ma!

```
2 1s$+'$de4 192.168.146.164 5432      6002 <$pt<1ssedb1<data<d4    S Sta'db%
```

4\$#ma!

Ó Ô O P

\$mm ` &s\$+ '\$de1 sc#&ptaS gs_ \$m 7t st\$pC

St\$pp&' g c!uste#.

AA

Success!!% stopped cluster#.

AA

```
) 'd st$p c!uste#.
```

õ ö O P

```
_ $mm ` &s$+ '$de1 sc#&ptaS gs_ $m 7t sta#tC
Sta#8 'g cluste#.
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
_S055)SSa &s$+ '$de1
2023707728 14056033.308 64c366a1.1 _u''''$D'a 140593643417856 _u''''$D'a 0
d'_6001_6002 01000 0 _*-5=)4Da ; -34(4,Q c$u!d '$t c#eate a'% G- 251<(1
s$c"ets
2023707728 14056033.309 64c366a1.1 _u''''$D'a 140593643417856 _u''''$D'a 0
d'_6001_6002 01000 0 _*-5=)4Da ; -34(4,Q >a!ed t$ &'&8a!&Me the mem$#%
p#$tect U$# g_&'sta'ce.aN#aN#_st$#age.cst$#e_buXe#s (16 9 b%tes) $# sha#ed
mem$#% (1188 9 b%tes) &s !a#ge#.
_S055)SSa &s$+ '$de4
2023707728 14056034.716 64c366a2.1 _u''''$D'a 140365746151680 _u''''$D'a 0
d'_6001_6002 01000 0 _*-5=)4Da ; -34(4,Q c$u!d '$t c#eate a'% G- 251<(1
s$c"ets
2023707728 14056034.717 64c366a2.1 _u''''$D'a 140365746151680 _u''''$D'a 0
d'_6001_6002 01000 0 _*-5=)4Da ; -34(4,Q >a!ed t$ &'&8a!&Me the mem$#%
p#$tect U$# g_&'sta'ce.aN#aN#_st$#age.cst$#e_buXe#s (16 9 b%tes) $# sha#ed
mem$#% (1188 9 b%tes) &s !a#ge#.
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
SuccessUu!!% sta#ted.
j h /
_ $mm ` &s$+ '$de4 d4aS gs_ $m 7t st$P 7D <$pt<&ssedb1<data<d4
St$pp&'g cluste#.
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
_, -0SS753606aQ 5a' '$t st$P the databaseB the cmd &s s$u#ce
<h$me<$mm<.bash#cC p%th$'3 Y<$pt<&ssedb1<t$!<sc#&pt<!$cal<St$P('sta'ce.p%Y 70
$mm 73 <$pt<&ssedb1<app 7t 300 7D <$pt<&ssedb1<data<d4 7m UastB )##$#Q
```


>>>>>>pee#_#\$!e Q 1##ma#%
>>>>>>pee#_state Q 4\$#ma!
>>>>>>state Q 4\$#ma!
>>>>>>se'de#_se't_!\$ca8\$' Q 0<4001*58
>>>>>>se'de#_D##te_!\$ca8\$' Q 0<4001*58
>>>>>>se'de#_bush_!\$ca8\$' Q 0<4001*58
>>>>>>se'de#_#ep!a%_!\$ca8\$' Q 0<4001*58
>>>>>>#ece#/e#_#ece#/ed_!\$ca8\$' Q 0<4001*58
>>>>>>#ece#/e#_D##te_!\$ca8\$' Q 0<4001*58
>>>>>>#ece#/e#_bush_!\$ca8\$' Q 0<4001*58
>>>>>>#ece#/e#_#ep!a%_!\$ca8\$' Q 0<4001*28
>>>>>>s%'c_pe#ce't Q 100 J
>>>>>>cha' 'e! Q 192.168.146.164Q47386@77192.168.146.161Q5433
m 6 M (§ î n P
l m n P
_ \$mm ` \$s\$+ '\$de4 d4aS gs_ct! sD&tch\$/e# 7D <\$pt<ssedb1<data<d4
_2023707728 15Q16Q55.469a_19198a_a_gs_ct!aQ gs_ct! sD&tch\$/e# bdatad&# &s
<\$pt<ssedb1<data<d4
_2023707728 15Q16Q55.469a_19198a_a_gs_ct!aQ sD&tch\$/e# te#m (1)
_2023707728 15Q16Q55.474a_19198a_a_gs_ct!aQ Da&8' g U\$# se#/e# t\$ sD&tch\$/e#.....
_2023707728 15Q17Q00.592a_19198a_a_gs_ct!aQ d\$'e
_2023707728 15Q17Q00.592a_19198a_a_gs_ct!aQ sD&tch\$/e# c\$mp!eted
(<\$pt<ssedb1<data<d4)

o 4 f 9 : g ,
_ \$mm ` \$s\$+ '\$de1 dataaS gs_\$m 7t status 77deta&!
_ 5!uste# State a

c!uste#_state Q Deg#aded
#ed&st#&bu8'g Q 4\$
cu##e't_aM Q - ._-LL

[illegible]

Data ' \$de State a

)." ± ø ù ú

©ª¥ ' s A # % β ī š ú ^ t

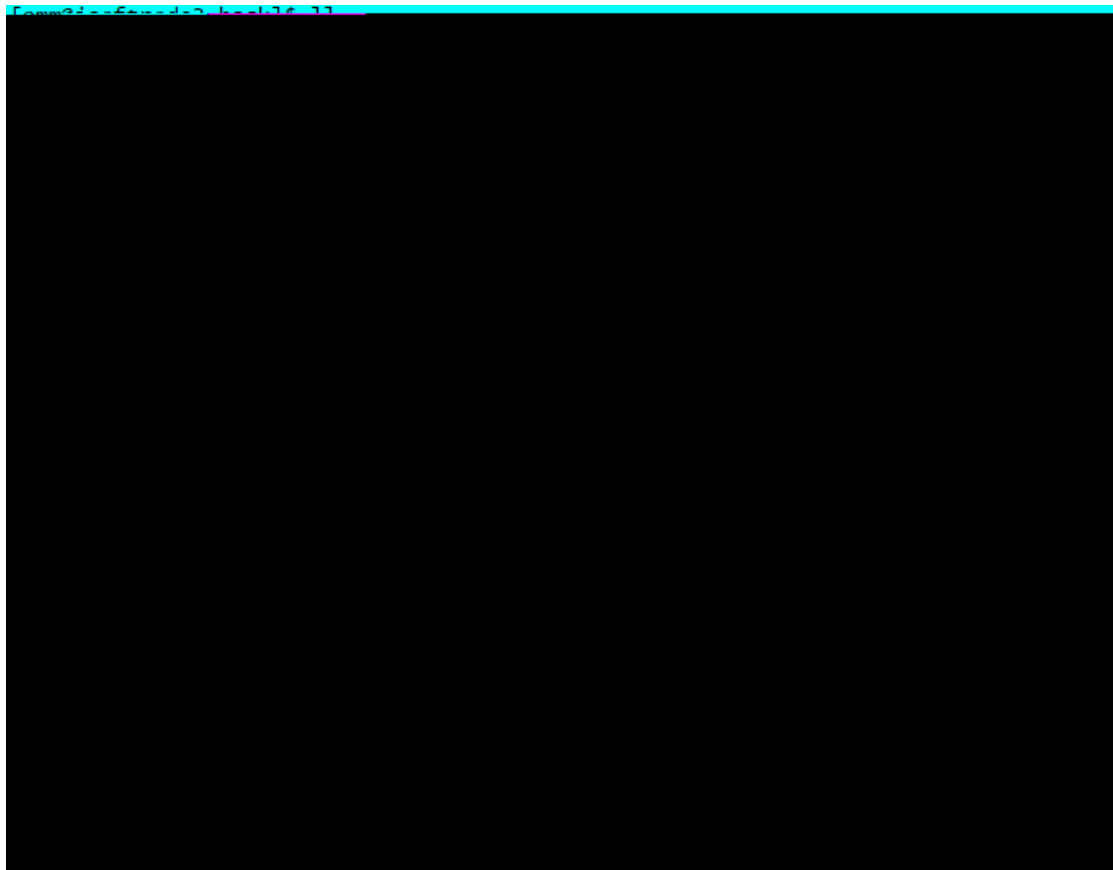
```
<$pt<bac"up<bac"up.s ! 7p 26000 testdb 7> p
gs_dump_p$#tA\26000\%a_testdba_2023707727 19053031a0 2he t$ta! $b\lects 'umbe# &s
432.
gs_dump_p$#tA\26000\%a_testdba_2023707727 19053031a0 _100.00Ja 432 $b\lects ha/e
bee' dumped.
gs_dump_p$#tA\26000\%a_testdba_2023707727 19053031a0 dump database testdb
successuu!!%
gs_dump_p$#tA\26000\%a_testdba_2023707727 19053031a0 t$ta! 8me0 1563 ms
```

```
y z p q #
>
77 •      » test v Å ,    gs_dump • ' © s ! /    v      p q å template1
#
_$mm ` &s$+ '$de2 bac"upaS gs ! 7d template1 70 test 7 ; huaDe& ` 1234 7p 26000
7U <$pt<bac"up<bac"up.s !
S)2
S)2
S)2
S)2
S)2
S)2
S)2
S)2
53) -2) S5G) 9 -
-L2)3 S5G) 9 -
S)2
S)2
S)2
53) -2) 2- *L)
-L2)3 2- *L)
53) -2) 2- *L)
-L2)3 2- *L)
```


p q < !

_\$\$t`ls\$+'\$de2 db1ad !! <\$pt<ssedb1<data<db1<pg_hba.c\$'U
<\$pt

m&'&mum LS4 &sQ 0<0.
_2023707728 09Q43Q59aQbeg&' bu&!d tab!espace !&st
_2023707728 09Q43Q59aQR' &sh bu&!d tab!espace !&st
_2023707728 09Q43Q59aQbeg&' get F!\$g b% F!\$&st#eam
_2023707728 09Q43Q59aQ chec" &de' 8U% s%stem success
_2023707728 09Q43Q59aQ se' d S2-32_3)1L(5-2(64 0<7000000 success
_2023707728 09Q43Q59aQ "eepa!&/e message &s #ece&/ed
_2023707728 09Q43Q59aQ "eepa!&/e message &s #ece&/ed
_2023707728 09Q44Q04aQgs_basebac"upQ base bac"up successUu!!%



¥™, ižš~—• ©i | ‡ ø ù ú

¥ ! " ´ m o w x

! " ´ m o w x Â Å , ^ %%% Š è > © w x % £ Í badêš_

Â Ë Ã © m o Â Ã ^ w x · <\$pt

(• €

Å , %o • \$ è · , ! • Ý 5 (• €

_ \$mm ` &s\$+ '\$de2 &'sta'ce_!\$ca!aS gs_p#\$bac"up set7c\$'Rg 7* <\$pt<p#\$bac"up< 77

&'sta'ceA&'sta'ce_!\$ca! 7d testdb 7p 26000

_ \$mm ` &s\$+ '\$de2 &'sta'ce_!\$ca!aS cat pg_p#\$bac"up.c\$'U

d *ac"up &'sta'ce &'U\$#ma8\$'

pgdata A <\$pt<ssedb1<data<db1

s%stem7&de '8Re# A 3423299692713438

d 5\$' 'ec8\$' pa#amete#s

pgdatabase A testdb

pgp\$#t A 26000

_ \$mm ` &s\$+ '\$de2 &'sta'ce_!\$ca!aS gs_p#\$bac"up bac"up 7* <\$pt<p#\$bac"up< 77

&'sta'ce &'sta'ce_!\$ca! 7d testdb 7b >OLL

(4>6Q *ac"up sta#tB gs_p#\$bac"up /e#s&\$'Q 2.4.2B &'sta'ceQ &'sta'ce_!\$ca!B bac"up (DQ

_2023707728 11Q45Q08aQ "eepa!%/e message &s #ece%/ed
_2023707728 11Q45Q13aQ "eepa!%/e message &s #ece%/ed
_2023707728 11Q45Q18aQ "eepa!%/e message &s #ece%/ed
_2023707728 11Q45Q23aQ "eepa!%/e message &s #ece%/ed
_2023707728 11Q45Q28aQ "eepa!%/e message &s #ece%/ed
_2023707728 11Q45Q33aQ "eepa!%/e message &s #ece%/ed
_2023707728 11Q45Q38aQ "eepa!%/e message &s #ece%/ed
_2023707728 11Q45Q44aQ "eepa!%/e message &s #ece%/ed
_2023707728 11Q45Q49aQ "eepa!%/e message &s #ece%/ed
_2023707728 11Q45Q55aQ "eepa!%/e message &s #ece%/ed
_2023707728 11Q46Q01aQ "eepa!%/e message &s #ece%/ed
_2023707728 11Q46Q06aQ "eepa!%/e message &s #ece%/ed
_2023707728 11Q46Q11aQ "eepa!%/e message &s #ece%/ed
_2023707728 11Q46Q17aQ "eepa!%/e message &s #ece%/ed
(4>6Q Data R!es a#e t#a 's!e##edB 8me e!apsedQ 1mQ20s
(4>6Q Da!t U\$# pg_st\$P_bac"up()
(4>6Q pg_st\$P bac"up() success!u!!% eFecuted
L6 , Q st\$P_!s'Q 0<9000308
L6 , Q L\$"\$&'g U\$# LS4 0<9000308 &' segme'tQ 000000010000000000000009
(4>6Q ; a!t U\$# LS4 0<9000308 &' st#eamed ; -L segme't
<\$pt<p#\$bac"up<bac"ups<&'sta'ce_!\$ca!<3:G 9) ; <database<pg_F!\$g<00000001000
00000000000009
L6 , Q >\$u'd ; -L segme'tQ
<\$pt<p#\$bac"up<bac"ups<&'sta'ce_!\$ca!<3:G 9) ; <database<pg_F!\$g<00000001000
00000000000009
L6 , Q 2h#ead _0aQ 6pe'&'g ; -L segme't
h<\$pt<p#\$bac"up<bac"ups<&'sta'ce_!\$ca!<3:G 9) ; <database<pg_F!\$g<00000001000
00000000000009h
L6 , Q >\$u'd LS4Q 0<9000308
L6 , Q R'&shed st#eam&'g ; -L at 0<- 000000 (8me!&'e 1)
L6 , Q , eg 'g the 3ec\$/e#% 2&me U#\$m ; -L

L6 , Q 2h#ead _0aQ 6pe ' & ' g ; -L segme't
h<\$pt<p#\$bac"up<bac"ups<&'sta'ce_!\$ca!<3:G9) ; <database<pg_F!\$g<00000001000
0000000000009h

(4>6Q S% ' c& ' g bac"up R!es t\$ d&s"

(4>6Q *ac"up R!es a#e s% ' cedß 8me e!apsedQ 0

(4>6Q Ha!&da8 ' g bac"up 3:G9) ;

(4>6Q *ac"up 3:G9) ; data R!es a#e /a!&d

(4>6Q *ac"up 3:G9) ; #es&de't s&MeQ 6369 *

(4>6Q *ac"up 3:G9) ; c\$mp!eted

m o '

4 f m o g , • €

_ \$mm ` &s\$+ '\$de2 &'sta'ce_!\$ca!aS gs_p#\$bac"up sh\$D 7* <\$pt<p#\$bac"up< 77
&'sta'ce &'sta'ce_!\$ca!

AA
AA
AAAAA

>('sta'ce He#s&\$' (D 3ec\$/e#% 2&me 9\$de ; -L 9\$de 2L(2&me Data
; -L .#a8\$ Sta#t LS4 St\$p LS4 2%pe Status

AA
AA
AAAAA

>&'sta'ce_!\$ca! 9.2 3:G4G7 2023707728 12Q07Q58E08 >OLL S23) - 9 1<0 6s
6209 * 169 * 1.00 0<D000028 0<D0001)8 >(L) 6=

¥ R ä L M

R , D9L L M ▯ ä , f m o

_ \$mm ` &s\$+ '\$de2 caS gs ! 7d testdb 7p 26000 7#

gs ! ((&ssedb 5.0.0 bu!d 4ec82cbe) c\$mp!ed at 2023707727 09Q58Q20 c\$mm&t 0 !ast
m#)

4\$'7SSL c\$' 'ec8\$' (SSL c\$' 'ec8\$' &s #ec\$mme'ded Dhe' #e u&#&'g h&gh7secu#&t%)

2%pe hhe!ph U\$# he!p.

[illegible]

```
>>>>2ab!e hpub!&c.test1h
>5$!um' ^ 2%pe ^ 9 $d&Re#s
77777777E77777777E7777777777
>c$! ^ &' tege# ^
```

¥ , f m o

\$mm `&s\$+ '\$de2 & 'sta'ce!\$calaS gs_p#\$bac"up bac"up 7* <\$pt<p#\$bac"up< 77
 &'sta'ce &'sta'ce_!\$ca! 7d testdb 7b 123 -5=
 (4>6Q *ac"up sta#tB gs_p#\$bac"up /e#s!\$'Q 2.4.2B &'sta'ceQ &'sta'ce_!\$ca!B bac"up (DQ
 3:G402B bac"up m\$deQ 123 -5=B Da! m\$deQ S23) - 9B #em\$teQ Ua!seB c\$mp#ess7
 alg\$#&thmQ '\$'eB c\$mp#ess7!e/e!Q 1
 L6 ,Q *ac"up des8'a8\$' &s &'&8a!&Med
 L6 ,Q 2h&s &ssedb &'sta'ce Das &'&8a!&Med D&th data b!\$c" chec"sums. Data b!\$c"
 c\$##up8\$' D&!! be detected
 L6 ,Q Database bac"up sta#t
 L6 ,Q Latest /a!&d >OLL bac"upQ 3:G 9) ;
 (4>6Q 1a#e't bac"upQ 3:G 9) ;
 L6 ,Q sta#ted st#eam&'g ; -L at 0<*000000 (8me!&'e 1)

_2023707728 11Q58Q06aQ chec" &de '8U% s%stem success

_2023707728 11Q58Q06aQ se 'd S2-32_3)1L(5-2(64 0<*000000 success

_2023707728 11Q58Q06aQ "eepa!&/e message &s #ece&/ed

(4>6Q 1, D-2- s&MeQ 620 9 *

L6 , Q 5u##e 't t!&Q 1

L6 , Q 1a#e 't sta#t_!s' Q 0<9000028

L6 , Q sta#t_!s' Q 0<*000028

(4>6Q)Ft#ac8 'g pagemap \$U cha 'ged b!\$c"s

(4>6Q cha 'ge b&tmap sta#t !s' !\$ca8\$' &s 0<9000028

(4>6Q cha 'ge b&tmap e 'd !s' !\$ca8\$' &s 00000000<0*000028

(4>6Q 1agemap successUu!!% eFt#acted& 8me e!apsedQ 0 sec

_2023707728 11Q58Q06aQ "eepa!&/e message &s #ece&/ed

(4>6Q Sta#t t#a 's!e##&' g data R!es

_2023707728 11Q58Q11aQ "eepa!&/e message &s #ece&/ed

_2023707728 11Q58Q16aQ "eepa!&/e message &s #ece&/ed

(4>6Q Data R!es a#e t#a 's!e##ed& 8me e!apsedQ 13s

(4>6Q Da&t U\$# pg_st\$P_bac"up()

(4>6Q pg_st\$P bac"up() successUu!!% eFecuted

L6 , Q st\$P_!s' Q 0<*0001)8

L6 , Q L\$"\$&' g U\$# LS4 0<*0001)8 &' segme 'tQ 000000010000000000000000*

(4>6Q ; a&t U\$# LS4 0<*0001)8 &' st#eamed ; -L segme't

<\$pt<p#\$bac"up<bac"ups<&' sta'ce_!\$ca!<3:G402<database<pg_F!\$g<0000000100000

0000000000*

_2023707728 11Q58Q24aQ "eepa!&/e message &s #ece&/ed

L6 , p#\$bac"up<bac"ups<&' s&2\$eL!\$ca!<3:G402<database<pg_F!\$g<0000000100000

L6 , Q R ' & shed st#eam&' g ; -L at 0<5000000 (8me!&' e 1)
L6 , Q , e g ' g the 3ec\$/e#% 2&me U#\$m ; -L
L6 , Q 2h#ead _0aQ 6pe'&' g ; -L segme't
h<\$pt<p#\$bac"up<bac"ups<&' sta' ce_!\$ca!<3:G402<database<pg_F!\$g<000000010000
000000000000*h
(4>6Q S% ' c&' g bac"up R!es t\$ d&s"
(4>6Q *ac"up R!es a#e s% ' cedB 8me e!apsedQ 0
(4>6Q Ha!&da8 ' g bac"up 3:G402
(4>6Q *ac"up 3:G402 data R!es a#e /a!&d
(4>6Q *ac"up 3:G402 #es&de ' t s&MeQ 2739 *
(4>6Q *ac"up 3:G402 c\$mp!eted
4 f m o g ,
_ \$mm ` &s\$+ '\$de2 &' sta' ce_!\$ca!aS gs_p#\$bac"up sh\$D 7* <\$pt<p#\$bac"up< 77
&' sta' ce &' sta' ce_!\$ca!
AA
AA
AAAAA
>(' sta' ce He#s&\$' (D 3ec\$/e#% 2&me 9\$de ; -L 9\$de 2L(2&me Data
; -L .#a8\$ Sta#t LS4 St\$p LS4 2%pe Status
AA
AA
AAAAA
>&' sta' ce_!\$ca! 9.2 3:G4(7 2023707728 12Q08Q32E08 123-5= S23)- 9 1<1 6s
2579 * 169 * 1.00 0<>000028 0<>0001)8 >(L) 6=
>&' sta' ce_!\$ca! 9.2 3:G4G7 2023707728 12Q07Q58E08 >OLL S23)- 9 1<0 6s
6209 * 169 * 1.00 0<D000028 0<D0001)8 >(L) 6=

¥ , f m o K ! f m o É û Â

> © , f m o † | 0 U ! m o ó© Ñ , f m o É û å 0 U ! m o Â 0
U ! m o (Ê Ñ É û © v ® e É û © , f m o M · Á Â é • š Â

_ \$mm ` &s\$+ '\$de2 &' sta' ce_!\$ca!aS gs_p#\$bac"up me#ge 7* <\$pt<p#\$bac"up< 77
&' sta' ce &' sta' ce_!\$ca! 7& 3:G4(7
(4>6Q 9e#ge sta#ted
(4>6Q 9e#g&' g bac"up 3:G4(7 D&th pa#e' t cha&'
(4>6Q Ha!&date pa#e' t cha&' U\$# bac"up 3:G4(7
(4>6Q Ha!&da8' g bac"up 3:G4G7
(4>6Q *ac"up 3:G4G7 data R!es a#e /a!&d
(4>6Q Ha!&da8' g bac"up 3:G4(7
(4>6Q *ac"up 3:G4(7 data R!es a#e /a!&d
L6 , Q 3est\$#e d&#ect\$#&es a' d s% m!&' "s... &'
<\$pt<p#\$bac"up<bac"ups<&' sta' ce_!\$ca!<3:G4G7<database
(4>6Q Sta#t me#g&' g bac"up R!es
L6 , Q 5#ea8' g page heade# map
h<\$pt<p#\$bac"up<bac"ups<&' sta' ce_!\$ca!<3:G4G7<page_heade#_map_tmph
(4>6Q *ac"up R!es a#e successUu!!% me#ged& 8me elapsedQ 8s
(4>6Q De!eteQ 3:G4(7 2023707728 12Q08Q32E08
L6 , Q 3e' ame <\$pt<p#\$bac"up<bac"ups<&' sta' ce_!\$ca!<3:G4G7 t\$
<\$pt<p#\$bac"up<bac"ups<&' sta' ce_!\$ca!<3:G4(7
(4>6Q 3e' ame me#ged Uu!! bac"up 3:G4G7 t\$ 3:G4(7
(4>6Q Ha!&da8' g bac"up 3:G4(7
(4>6Q *ac"up 3:G4(7 data R!es a#e /a!&d
(4>6Q 9e#ge \$U bac"up 3:G4(7 c\$mp!eted
_ \$mm ` &s\$+ '\$de2 &' sta' ce_!\$ca!aS !!
t\$ta! 4
7#D777777. 1 \$mm dbg#p 159 ?u! 28 11Q44 pg_p#\$bac"up.c\$ ' U
d#DF777777. 3 \$mm dbg#p 97 ?u! 28 12Q10 3:G4(7

¥ • š ů p q

_ \$mm ` &s\$+ '\$de2 caS gs !7d p\$stg#es 7p 26000 7#
gs ! ((&ssedb 5.0.0 bu&d 4ec82cbe) c\$mp!ed at 2023707727 09Q58Q20 c\$mm&t 0 last
m#)

4\$'7SSL c\$' ' ec8\$' (SSL c\$' ' ec8\$' &s #ec\$mme' ded Dhe' #e u&#&'g h&gh7secu#&t%)
2%pe hhe!ph U\$# help.

&ssedbAd d#\$p database testdbC

D361 D-2- * -S)

_ \$mm ` &s\$+ '\$de2 caS gs !7d testdb 7p 26000 7#

gs !Q>-2-LQ database htestdbh d\$es '\$t eF&st

- #est\$#e ¾%Š — v h i (SS)D* & v û ^ * db1 w x

_ \$mm ` &s\$+ '\$de2 caS gs_ct! st\$p 7D <\$pt<&ssedb1<data<db1

_2023707728 12Q18Q57.916a_79294a_a_gs_ct!aQ gs_ct! st\$pped Bdatad&# &s

<\$pt<&ssedb1<data<db1

Da&8'g U\$# se#/e# t\$ shut d\$D'..... d\$'e

se#/e# st\$pped

_#\$St ` &s\$+ '\$de2 cad cd <\$pt<&ssedb1<data

_#\$St ` &s\$+ '\$de2 dataad m/ db1 db1_ba"

Å , #est\$#e p q å ë • —© g ,

_ \$mm ` &s\$+ '\$de2 &'sta'ce_!\$ca!aS gs_p#\$bac"up #est\$#e 7* <\$pt<p#\$bac"up< 77

&'sta'ce &'sta'ce_!\$ca! 7D <\$pt<&ssedb1<data<db1 7& 3:G4(7

L6 , Q 3est\$#e beg&'.

L6 , Q chec" tab!espace d&#ect\$#&es \$U bac"up 3:G4(7

L6 , Q chec" eFte# 'a! d&#ect\$#&es \$U bac"up 3:G4(7

(4>6Q Ha!&da8'g bac"up 3:G4(7

(4>6Q *ac"up 3:G4(7 data R!es a#e /a!&d

L6 , Q 2h#ead _1aQ 6pe'&'g ; -L segme't

h<\$pt<p#\$bac"up<bac"ups<&'sta'ce_!\$ca!<3:G4(7<database<pg_F!\$g<000000010000

00000000000>h

(4>6Q *ac"up 3:G4(7 ; -L segme'ts a#e /a!&d

(4>6Q *ac"up 3:G4(7 &s /a!&d.

(4>6Q 3est\$#&'g the database U#\$m bac"up at 2023707728 12Q08Q31E08

L6 , Q 3est\$#e d&#ect\$#&es a'd s%mi!&' "s... &' <\$pt<&ssedb1<data<db1

(4>6Q Sta#t #est\$# 'g bac"up R!es. 1 , D-2- s!MeQ 636 9 *
L6 , Q Sta#t th#ead 1
(4>6Q *ac"up R!es a#e #est\$#ed. 2#a 's!e#ed b%tesQ 1000 9 *B 8me e!apsedQ 28s
(4>6Q 3est\$#e & 'c#eme 'ta! #a8\$ (!ess &s beNe#)Q 157 J (1000 9 *<636 9 *)
(4>6Q S%'c& 'g #est\$#ed R!es t\$ d&s"
(4>6Q 3est\$#ed bac"up R!es a#e s%'cedB 8me e!apsedQ 1s
(4>6Q 3est\$#e \$U bac"up 3:G4(7 c\$mp!eted.

j k û t u ž p q
_ \$mm ` &s\$+ '\$de2 caS gs_ct! sta#t 7D <\$pt<&ssedb1<data<db1
_2023707728 12Q22Q08.206a_79316a_a_gs_ct!aQ gs_ct! sta#tedBdatad&# &s
<\$pt<&ssedb1<data<db1
_2023707728 12Q22Q12.404a_79316a_a_gs_ct!aQ Da&8 'g U\$# se#/e# t\$ sta#t...
.0 L6 , Q _-!a#m 9 \$du!eaca' ' \$t #ead , -OSS_ ; -34(4 , _2:1) e' /.

0 L6 , Q _-!a#m 9 \$du!eaG\$st 4ameQ &s\$+ '\$de2

0 L6 , Q _-!a#m 9 \$du!eaG\$st (1Q &s\$+ '\$de2. 5\$P% h\$st 'ame d!#ect!% &' case \$U ta"&'g
10s t\$ use \geth\$stb%' ameY Dhe ' <etc<h\$sts d\$es ' \$t c\$' ta&' @G6S2 (10

0 L6 , Q _-!a#m 9 \$du!ea5!uste# 4ameQ db5!uste#

0 L6 , Q _-!a#m 9 \$du!ea('/a!&d data &' -!a#m(tem R!ei 3ead ala#m) 'g!&sh 'ame
Ua&!edi !&'eQ 57

0 ; -34(4 , Q Ua&!ed t\$ \$pe' Ueatu#e c\$' t#\$! R!eB please chec" Dhethe# &t eF!&stsQ
>!e4ameA(SS)D*./e#s!\$'B)##' \$A2B)##messageA4\$ such R!e \$# d!#ect\$#%.

0 ; -34(4 , Q Ua&!ed t\$ pa#se Ueatu#e c\$' t#\$! R!eQ &ssedb./e#s!\$'.

0 ; -34(4 , Q >a&!ed t\$!\$ad the p#\$duct c\$' t#\$! R!eB s\$ &ssedb ca' ' \$t d&s8 'gu!sh
p#\$duct /e#s!\$'.

2023707728 12Q22Q13.187 64c34274.1 _u''''\$D'a 139730238255360 _u''''\$D'a 0
d'_6001 D*010 0_3)D6a L6 ,Q 3ec\$/e#% pa#a!!e!&smB cpu c\$u't A 2B maF A 4B actual
A 2

2023707728 12Q22Q13.187 64c34274.1 _u''''\$D'a 139730238255360 _u''''\$D'a 0
d'_6001 D*010 0_3)D6a L6 ,Q 5\$'Rg3ec\$/e#%1a#a!!e!&smB
t#ue_maF_#ec\$/e#%_pa#a!!e!&smQ4B maF_#ec\$/e#%_pa#a!!e!&smQ4

2023707728 12Q22Q13.399 64c34274.1 _u''''\$D'a 139730238255360 _u''''\$D'a 0
d'_6001 00000 0_*-5=)4Da L6 ,Q _-!a#m 9\$du!eaca' '\$t #ead
, -0SS_ ; -34(4 ,_2:1) e' /.

2023707728 12Q22Q13.399 64c34274.1 _u''''\$D'a 139730238255360 _u''''\$D'a 0
d'_6001 00000 0_*-5=)4Da L6 ,Q _-!a#m 9\$du!eaG\$st 4ameQ &s\$+ '\$de2

2023707728 12Q22Q13.399 64c34274.1 _u''''\$D'a 139730238255360 _u''''\$D'a 0
d'_6001 00000 0_*-5=)4Da L6 ,Q _-!a#m 9\$du!eaG\$st (1Q &s\$+ '\$de2. 5\$P%
h\$st'ame d&#ect!% &' case \$U ta"&'g 10s t\$ use Ygeth\$stb%'ameY Dhe' <etc<h\$sts d\$es
'\$t c\$'ta&' @G6S2 (10

2023707728 12Q22Q13.399 64c34274.1 _u''''\$D'a 139730238255360 _u''''\$D'a 0
d'_6001 00000 0_*-5=)4Da L6 ,Q _-!a#m 9\$du!ea5!uste# 4ameQ db5!uste#

2023707728 12Q22Q13.399 64c34274.1 _u''''\$D'a 139730238255360 _u''''\$D'a 0
d'_6001 00000 0_*-5=)4Da L6 ,Q _-!a#m 9\$du!ea('/a!&d data &' -!a#m(tem R!ei
3ead a!a#m) 'g!&sh 'ame Ua&!edi !&'eQ 57

.2023707728 12Q22Q13.416 64c34274.1 _u''''\$D'a 139730238255360 _u''''\$D'a 0
d'_6001 00000 0_*-5=)4Da L6 ,Q !\$aded !&b#a#% hsecu#&t%_p!ug&'h

2023707728 12Q22Q13.418 64c34274.1 _u''''\$D'a 139730238255360 _u''''\$D'a 0
d'_6001 01000 0_*-5=)4Da ; -34(4 ,Q c\$u!d '\$t c#eate a'% G- 251<(1 s\$c"ets

2023707728 12Q22Q13.418 64c34274.1 _u''''\$D'a 139730238255360 _u''''\$D'a 0
d'_6001 01000 0_*-5=)4Da ; -34(4 ,Q c\$u!d '\$t c#eate a'% G- 251<(1 s\$c"ets

2023707728 12022013.421 64c34274.1 _u''''\$D'a 139730238255360 _u''''\$D'a 0
d'_6001 00000 0 _*-5=)4Da L6 ,Q ('&t4uma 'uma4\$de4umQ 1
'uma_d&st#bute_m\$deQ '\$'e &'he#&t2h#ead1\$\$!Q 0.

2023707728 12022013.421 64c34274.1 _u''''\$D'a 139730238255360 _u''''\$D'a 0
d'_6001 01000 0 _*-5=)4Da ; -34(4 ,Q >a&led t\$ &'&8a!&Me the mem\$#% p#\$tect U\$#
g_&'sta'ce.aN#aN#_st\$#age.cst\$#e_buXe#s (16 9b%tes) \$# sha#ed mem\$#% (1188
9b%tes) &s !a#ge#.

2023707728 12022014.278 64c34274.1 _u''''\$D'a 139730238255360 _u''''\$D'a 0
d'_6001 00000 0 _5-5G)a L6 ,Q set data cache s&Me(12582912)

2023707728 12022017.650 64c34274.1 _u''''\$D'a 139730238255360 _u''''\$D'a 0
d'_6001 00000 0 _S) , 9)42_1- ,)a L6 ,Q Segme't7page c\$'sta'tsQ D>_9 -1_S(.)Q
8156B D>_9 -1_*(2_542Q 65248B D>_9 -1_ ,3601_)K2)42SQ 4175872B
(1*L65=_S(.)Q 8168B)K2)42S_1)3_(1*L65=Q 1021B (1*L65=_ ,3601_S(.)Q 4090B
*92_G)-D)3_L)H)L0_262-L_1- ,)SQ 8323072B *'t9 ap)'t#%4umbe#1e#!\$c"Q
2038B *'t9 ap*!\$c"4umbe#Q 25B *'t* &t9 aF9 ap5'tQ 512

2023707728 12022018.419 64c34274.1 _u''''\$D'a 139730238255360 _u''''\$D'a 0
d'_6001 00000 0 _*-5=)4Da L6 ,Q &ssedbQ Us%'c R!e
h<\$pt<&ssedb1<data<db1<&ssedb.state.temph success

2023707728 12022018.419 64c34274.1 _u''''\$D'a 139730238255360 _u''''\$D'a 0
d'_6001 00000 0 _*-5=)4Da L6 ,Q c#eate &ssedb state R!e successQ db
state(S2-32(4 , _S2-2))B se#/e# m\$de(4\$#ma!)B c\$' 'ec8\$' &'deF(1)

2023707728 12022018.443 64c34274.1 _u''''\$D'a 139730238255360 _u''''\$D'a 0
d'_6001 00000 0 _*-5=)4Da L6 ,Q maF_salle_uds A 976B usable_uds A 1000B
a!#ead%_ \$pe' A 14

bb\$F_dump_path &s set t\$ <\$pt<&ssedb1<c\$#eR!e<

.

_2023707728 12022021.110a_79316a_a_gs_ct!aQ d\$'e

_2023707728 12022021.110a_79316a_a_gs_ct!aQ se#/e# sta#ted (<\$pt<&ssedb1<data<db1)

_ \$mm ` &s\$+ '\$de2 caS

_ \$mm ` &s\$+ '\$de2 caS gs !7d testdb 7p 26000 7#

gs ! ((&ssedb 5.0.0 bu&!d 4ec82cbe) c\$mp&led at 2023707727 09Q58Q20 c\$mm&t 0 !ast

m#)

4\$'7SSL c\$' 'ec8\$' (SSL c\$' 'ec8\$' &s #ec\$mme'ded Dhe' #e u&#&'g h&gh7secu#&t%)

2%pe hhe!ph U\$# help.

testdbAd select V U#\$m test10

>c\$!

77777

>111

(1 #D)

p q ‘

).& u

•§j¬

G „ ‡ å tFt !

testdbAd c\$p% test t\$ Y<\$pt<data<testY D&th (de!&m&te# Y^YBU\$#mat Y2)K2Y)C

561: 2

_ \$mm ` &s\$+ '\$de2 dataaS cat test

1^100

2^20

(0 #D\$)

testdbAd c\$% test3 U#\$m Y<\$pt<data<testY D&th (de!&m&te# Y^YBU\$#mat Y2)K2Y)C

561: 2

testdbAd select V U#\$m test3C

>&d ^ /a!ue

7777E7777777

>>1 ^ 100

>>2 ^ 20

(2 #D\$)

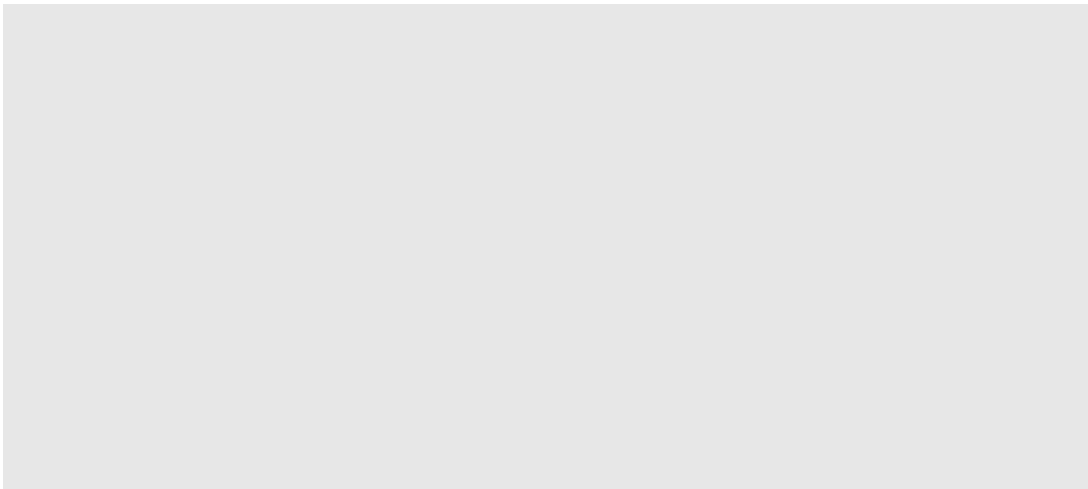
1> ^

À.1 ¥™¬α

gs ! ž (SS)D* ~ ¼ è‰Š , ‰μ , © 5 (s ^ v § î Ÿ Ã™ s ^ 5 (À
Á ± û R | , L M K ¶ ç v š ^ m L M © v gs ! 2 ~ ¼
3 • Ž v ð » • Â

À.1.1 # \$ %

5 (# ¡ 0 1 L M Ë < • 4 ... 5 6 “ Û ‘ (SS)D* 0 • gs ! Û ‘
(SS)D*L 7 / Â
Å , •



2 •	⌌ -
	, f Đ ž œ 5 © 2 • < n R v ð ª © n § î ž] û } 9 Â , f 2 • ¥ | ß H È { < Ü ; < H È ~ ¥ H K % WP ‘ v ü R b ã f Â ^ ¢ • Wset /a# 'ame © | } { Ö \ Y ú < ~ v ç Đ ž T , ð ú , f ® W Ñ Š , f Ô n Â § î • Ö < © Wset Ÿ ÷ Ñ , f © n Â , f © Ñ K 0 1 × Ø Ë < • ¥ | Â
SQL t P	• gs ! © , f v § î (© SQL • \$ T , · , f v î œ ´ L M Â SQL t P © Ñ K 0 1 × Ø Ë < • Û ¿ Â
£ j ~ l	gs ! • © ~ l ª « » £ j Â § î Ÿ Ñ ö Ž gs ! > © D ú , f 136 9 121 ¥ 136 9 122 ¥ 136 9 123 Ÿ Ž , ~ l Â ð D ú , f © n § î » £ j v ñ § î • gs ! j © n Â 0 1 Ë < • Ü Ý þ Â
% Š £ k =	

f

2 •	⌈ -
	£ Í . ÆÖ ª « !\$ca!¥g!\$ba! © £ k = v ö Ž . ÆÖ ª « #ebu!d £ k = Â set • \$ ò ª « £ k | OS)3 K S01)30S)3 Ž ô © < Â Ö ª « \U eF!sts © £ k = Â Ö ª « G 2 . F 2 © £ k = v ^ a!te# se ue 'ce @ 'ame0 \$D 'ed b% tab!e4ame.c\$!4ame v \$D 'ed b% Â Ö ª « £ j L M I £ k = Â • q Ü > ? õ ° & } T...% Š v ^ ¢ > ? © % Š ª Ñ 2- * Ê Ñ § ÷ • T...% Š © | } ê @ v « - M (Å , Â hWtW' `SO@AC^je() h õ p Ý H I è s ! • \$ ^ Ñ Æ j Â ^ ¢ £ j G 2 < Æ õ p Ý H I v Â ý T...© s ! • \$ õ p H I ; " Ö ª « £ k = Â
º » ä L M ó x	gs ! ª « º » ä L M ó x v ò º » ä 5 (ì > “ 7#L < v ™ é P ; Â § î Ÿ Ã Wset T , ó x © ™ v Ã ^ v Wset G(S2S(.) 50 v ó x © ™ T , · 50 v Wset G(S2S(.) 0 v Ö ó x Â × Ø # º » ä L M ó x ™ \ ß T , · 32 ™ v Ò ¯ ª « ó x 500 ™ Â ò º » ä ? V } T... < Æ H I ì v Ð ª « 02>78 © a 8 1 2 Â ‡ 7 | Æ 7 v < Æ 1-SS ; 63D ¥ (D) 42(>())D ã f Ç © ó x ô · ã f • € v Ö ÷ ó x å • € v ï Ö Ÿ Ã %A ÷ Â

À.1.& ’

— ~ ™ !

5 (ì • © » N ” ^ m Ũ ‘ © 6 7 Â

” • €

• gs !% Š § î 5 (x & À Á Â 5 (x & À Á ì v N ” è À Á

± T , r s x & 5 (v 0 1 L M Ë < • 4 ; < = > ? 6 “ • > 0 5

(> 0 • gs ! 5 (> 0 x & 5 (” 7 / Â

L M 2 Z

{ 1 ~ • gs ! 5 (å (SS) D* À Á ± Â

gs ! s ^ • 7d < > w " 2 ¥ 70 < > » 2 ¥ 7h < >

l 6 2 ¥ 7p < > ä) ¯ • € Â

{ 2 ~ Å , SQL • \$ Â

{ 3 ~ Å , gs ! Å % Š Â

5 û . :

1 ¥ gs ! Å % Š © | } ž ¼ ã B ¢ C D ý ú k Ç v p ¢ ž] û < Â < % Š

k Ç K | š < î] û ú * H I ó Ë Â

2 ¥ " è < ª < Æ * v ¥ | 5 Æ ¯ + Á Æ • Ÿ Â " è õ © < ª < Æ

5 Æ ¯ v š î è — Ý ý ú ¼ ã B Â] Þ < Æ è 5 Æ ¯ ª © ¢ ³ ÷ é ý 2

, A : 5 • E ©] P # W' { n , ~ ¥ Wt { Ü G I ~ ¥ Wb { " | ~ ¥ W# { , ~ ¥

WU { P u ~ ¥ Wd & ts { F Ü G

!\$g_h\$st'ame < Â

^ ¢ ; j Q < v Â ý ¢ / ÷ Ÿ Ã D4S ¼ 4 ° » ä è 6 ± © I 6

2 Â õ ì ^ ¢ I / · , Ö M © < Ö § H © D4S À Á ± v Â ý

{ 1 ~ gs !Q c\$u!d '\$t c\$' 'ect t\$ se#/e#Q 4\$ #Sute t\$h\$st
™ ‘ ’ ý ã ž > Ö § H © B ¢ = ä) „ ø © Â È 3 4 7h < † 7p < ž
• Ý M Â
{ 2 ~ gs !Q >-2-LQ ('/a!!d use#'ame<passD\$#d!\$g&' de 'led.
™ ‘ ’ ý ã ž T... ê ë © » 2 K Þ 8 „ ø © v È ` : c d e v ß
» 2 K Þ 8 © M Â
{ 3 ~ gH,Q&~LQc&Qold #em\$te c\$' 'ec8\$' D!th t#ust meth\$di
ß 7 | ‘ ’ v P i x & [x ì • t#ust Z } Â õ ì N ” ö Ž
pg_hba.c\$'Uª©5(ßà•€Â^²©T,•€È<•#4cd>?6
“ cd 7 |>0°»ä(...ßà>0·,!<Æ”7/Â
× Ø # È Ö ” ö Ž pg_hba.c\$'U(SS)D* l 6 © Q T , v ç § „ ø
0 1 Â Í t¹Á \$ % è (SS)D* Ö v ® Ü (SS)D* ¢ \$ Â
{ 4 ~ 5 (v • Ý “ 7h 127.0.0.1L § î 5 (v – J α « – 5 (‘ ’ Â
ÿ Ã Å , SQL • \$ “ sh\$D u'f_s\$c"et_d#ect\$##L 3 4 I / • © 0'fF
(she!! © 1 2 f S1,G6S2 ý ø Â
^ ¢ 3 4 q ¢ Ö ý ø v Â ý ö Ž 1,G6S2 1 2 , f å ,05 <
u'f_s\$c"et_d#ect\$##>Ä©wxð§Â
u'f_s\$c"et_d#ect\$##©p¯•€v0•4<Æ6“,05<×Ø
0 5 (K ß à>0 5 (

07/09/2016 @ À

p\$#t FFFFI

™ ‘ ’ ž ß 3 4 5 (0 1 ä ‘ Â Ë 3 4 ° » ä † À Á ± ó © 3 4 5 (Â
^ ¢ < ì ° » ä « – 1(4, å À Á ± ä v ç × Ø 3 4 5 (‡ ì 0 1 Â Ë
` : 3 4 c d ü e q 4 U V Â

p&'g 7c 4 10.10.10.1

1(4, 10.10.10.1 (10.10.10.1) 56(84) b%tes \$U data.>#\$m 10.10.10.1Q &cmp_se A2
Des8'a8\$' G\$st 0'#eachable>#\$m 10.10.10.1 &cmp_se A2 Des8'a8\$' G\$st
0'#eachable>#\$m 10.10.10.1 &cmp_se A3 Des8'a8\$' G\$st 0'#eachable>#\$m
10.10.10.1 &cmp_se A4 Des8'a8\$' G\$st 0'#eachable777 10.10.10.1 p&'g sta8s8cs 7774
pac"ets t#a'sm&Nedß 0 #ece&/edß E4 e##\$#sß 100J pac"et !\$ssß 8me 2999ms

{ 8 ~ gs !Q>-2-LQ pe#m&ss&\$' de'led U\$# database kp\$stg#esL

D)2-(LQ 0se# d\$es '\$t ha/e 5644)52 p#&/&!ege.

™ ‘ ’ ž ß » Ö ^ m Û ‘ I © 6 7 v § î • ^ %& – U V

1 • c d e » dbadm&' 5 (Â

gs !7d p\$stg#es 70 dbadm&' 7p 15400

2 Ô Õ I » Û ‘ © 6 7 Â

, 3-42 5644)52 64 D-2-* -S) p\$stg#es 26 use#10

À." ¥™, ©ª¡

À." .1 ,

gs_dump ž (SS)D* „ ‡ Q • € © s ^ v » § î £ j „ ‡ ý ú

| © R S { Z } ¥ G ¥ ^ _ ® ~ v Ê * R S š Ö Â ª « „ ‡ ©

§ î ž \ ß p\$stg#es v ñ § î ž £ j Â

gs_dump s ^ ß 7 8 (SS)D* © L M : ; » Å , Â

gs_dump s ^ è „ „ ‡ ì v | š » § î Û ‘ (SS)D* { ± b ~ Â

gs_dump s ^ ª « „ ‡ U ù ý ø © Â Ã ^ v 21 ì ô j k gs_dump „ ‡ -

v Â ý „ ‡ q ¢ ÷ ž 21 ì ô - © g , v 21 ì ô ª R -

© ö Ž Ö ÷ é „ ‡ Â

gs_dump s ^ è „ „ ‡ ì • ‘ © F Ö ÷ é O Y Â

gs_dump ª « „ ‡ ² ³ /1 - © | } ! Â

gs_dumpª«•€„‡ùR|}©SQL/!|šQR!
Â

gs_dump§î£Í,°ÖÒ©„‡!|}vÿÃ“7>L=“%U\$#matAL|:
>v^2^G1Â

G>1„‡!|}

|}2 •	7> © < n	×Ø	Í t	R „ ... s ^
R | }	p	R / ! < Æ SQL • \$ K % Š Â % Š § î ß gs ! % Š , ! ä & ' Å , v ^ n £ Í R S û Ý ¼ G Â	N v ý ã ï ð R | } Â	• gs ! s ^ p q R S — v § N ” • a z ± a z R „ ‡ ! Â
£ j QR | }	c	ý ° Y Ü ! Âª« „ ‡ ! p q Ñ l R S Â	N N v ï ð £ j Q R | } Â	
w x Q R }	d	l } ÷ £ Í ý ú w x v l w x < Æ ° A ! v ý A ž w x ! v î ý A ž ’ ú G 7 K b!\$b R S R © ! Â		• § î l m ” £ j QR<w x Q R<ta# QR „ ‡ ! „ ... Q ©
ta# Q R | }	t	ta# QR !ª« „ ‡ ! p q Ñ l R S Âta# QR | } Öª« § k 7 ü R 5) G 8,*Â		R S Â

À."."

gs_dump_612(64a..._D*4-9)a
gs_dump 7p p\$#t_'umbe# p\$stg#es 7U dump1.s !
=
eFp\$#t 1,D-2-* -S)Ap\$stg#es
>gs_dump 7p p\$#t_'umbe# 7U dump1.s !
1 2 , f # >1,D-2-* -S)

À.& ¥™, §ª

À.&.1 ,

(SS)D* ~ ¼ gs_\$m s ^ 8 9 R (SS)D* , ¶ ç v < j k (SS)D* ¥ h i
(SS)D* ¥ 4 Ĩ (SS)D* g , ¥ 4 Ĩ S , · , ¥ • ‘ S , · , ! ¥ 4 Ĩ (SS)D* g
, 0 1 • € ¥ • ‘ k , · , ! ¥ SSL à] P ¥ ÷ 8 9 • € K ÷ - ¯ •
€ ® Â

À.&." ^

N î L M : ; » \$mm Å , gs_\$m % Š Â

À.&.&

j k

• ‘ S , . , !

gs_\$m 7t ge 'e#atec\$'U 7K K 9 L>(L) _7d&st#&butea_7! L6 ,>(L)a

gs_\$m 7t ge 'e#atec\$'U 77\$d7/a!uesA\$d 77'eD7/a!uesA'eD_77d&st#&butea_7! L6 ,>(L)a

• ‘ k , . , ! v m 6

‘ I 6 ▯ v N ” Å , ™ L M

gs_\$m 7t #eU#eshc\$'U

4 f S , . ,

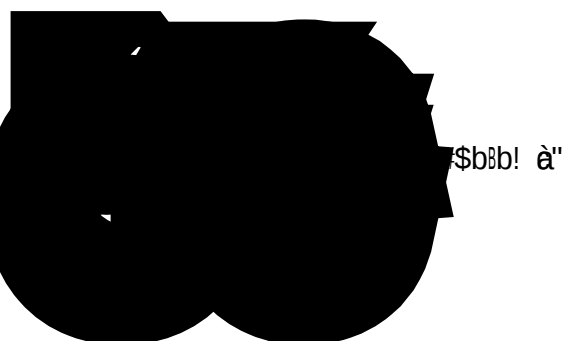
gs_\$m 7t /&eD_7\$ 602102a

4 Ĩ g , 0 1 • €

gs_\$m 7t ue#%_7\$ 602102a

gs_\$m 7t ce#t Sp#t&7!e)2&)_7! L6 ,>(L)a

m\$ca!



047a7P !ñ

N " • — , ì T , © (SS)D* » , 7 8 L M Â
• —

À.) ." ... ÉÉÚÈ

gs_&'sta!! 7K K 9 L>(L) _77gs&'&t7pa#amete#Ah1-3-9)2)3h _...aa _77d'7
gucAh1-3-9)2)3h _...aa _77a!a#m7c\$mp\$'e'tA-L-39569164)42a _778me7
\$utAS)5Sa_7! L6 ,>(L)a
× Ø # ; 7 8 ì Ö > H I 9 v \ ß H I 9 · SQL_-S5((v · œ ´ K ; ý b ·
!\$ac!e \ ß T , · 5 v T > | š H I 9 K b · v Ë è 7 8 ì • < %
gs&'&t7pa#amete#Ahm!\$caleAL65-L)h Ÿ > v L65-L) · n T , ÅÆ© b · Â
÷ 8 9 • €
gs_&'sta!! 7I ^77help
÷ - ¯ • €
gs_&'sta!! 7H ^77/e#s&\$'

À.À ¥™, ¡ž¢£¨™Ÿ—αα

À.À.1 ,

(SS)D* ~ ¼ gs_p#e&'sta!! s ^ Ÿ 8 9 U ´ (SS)D* © 1 2 · , v î æ à (SS)D*
7 8 © M (, Â

À.À. "

r m 1 2
gs_p#e&'sta!! 70 OS)3 7 , ,3601 7K K 9 L>(L) _7La_77s"&p7\$S7seta_77e' /7/a#Ah)4HH-3h
_...aa_77sep7e' /7R!eA91135>(L)a_77s"&p7h\$st'ame7seta_7! L6 ,>(L)a_77'\$'7&'te#ac8/ea
÷ 8 9 • €
gs_p#e&'sta!! 7I ^77help
÷ - ¯ • €
gs_p#e&'sta!! 7H ^77/e#s&\$'
G >1 (SS)D* \ ß £ í © 1 2 , f

T , “ <etc<s%s!\$g7'g<s%s!\$g7'g.c\$'UL ! v è ! • Ý ^ % ¢ ³ #
template t_&ssedb etemplate(hSD-2) SS6035)(1 S9S,64L:W
'h)template_escape('\$')f
s\$u#ce s_&ssedbe udp()f
R!te# U_&ssedb e !e/e!(e##B c##t) a'd match(%&ssedb!)f