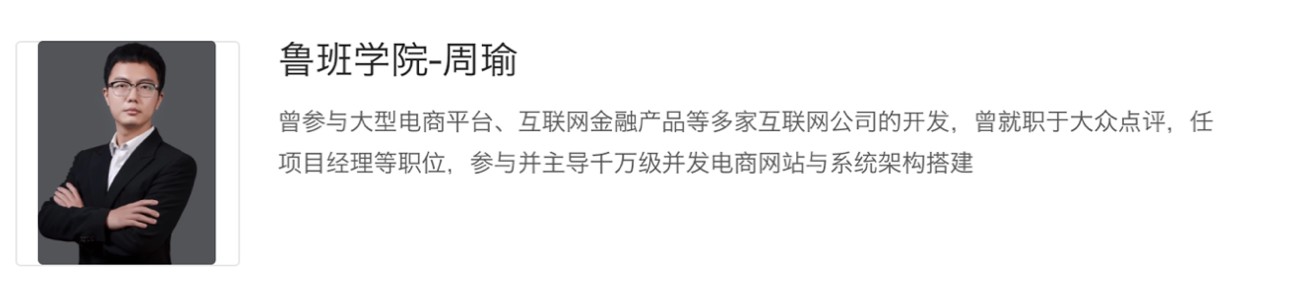
# ²OOkªªþªfphfl"tXflZfloYr$



਍ၹ෫႕҅౯ժӞ᩸ڹێۣᤈ

᧞ᑕᦖ૵ғ**ޮቲᘌ૵QQғ3413298904** ஃ๗᧞ᑕᩒාғ**๙هᘌ૵QQ: 2746251334**

VIP᧞ᑕߎᧃғ**ਞٌ೉ᘌ૵QQ: 3164703201**

## W)kIl²NOŒªh

1. ೮ԋᜓᅩ҅ಅ᧲೮ԋᜓᅩ҅ฎ೰ࣁᜓᅩڠୌݸ҅੪Ӟፗਂࣁ҅ፗکํڢᴻ඙֢๶ԆۖႴᴻᬯӻᜓᅩ̶

2. ԁ෸ᜓᅩ҅޾೮ԋᜓᅩӧݶጱฎ҅ԁ෸ᜓᅩጱኞޮ޸๗޾ਮಁᒒտᦾᕬਧ̶Ԟ੪ฎ᧔҅ইຎਮಁᒒտᦾ०ප҅ᮎԍᬯӻᜓᅩ੪ տᛔۖᤩႴᴻധ̶ဳ఺҅ᬯ᯾൉کጱฎտᦾ०ප҅ᘒᶋᬳളෙ୏̶ݚक़҅ࣁԁ෸ᜓᅩӥᶎӧᚆڠୌৼᜓᅩ̶

3. ೮ԋᶲଧᜓᅩ҅ᬯᔄᜓᅩጱच๜ᇙ௔޾೮ԋᜓᅩฎӞᛘጱ̶᷐क़ጱᇙ௔ฎ҅ࣁZKӾ҅ྯӻᆿᜓᅩտԅ՜ጱᒫӞᕆৼᜓᅩᖌಷӞ ղ෸ଧ҅տᦕ୯ྯӻৼᜓᅩڠୌጱݸضᶲଧ̶चԭᬯӻᇙ௔҅ࣁڠୌৼᜓᅩጱ෸ײ҅ݢզᦡᗝᬯӻં௔҅ᮎԍࣁڠୌᜓᅩᬦᑕ Ӿ҅ZKտᛔۖԅᕳਧᜓᅩےݷӤӞӻහਁݸᖗ֢҅ԅෛጱᜓᅩݷ̶ᬯӻහਁݸᖗጱ᝜ࢱฎෆࣳጱ๋य़꧊̶

4. ԁ෸ᶲଧᜓᅩ҅ᔄ֒ԁ෸ᜓᅩ޾ᶲଧᜓᅩ

zookeeperἕᦊ੒ྯӻᕮᅩጱ๋य़හഝᰁํӞӻӤᴴฎ1M

## ³t(t

ZooKeeperݷ޸ᑮᳵӾጱྯӻznode᮷ํӞӻӨԏىᘶጱstatᕮ຅҅ᔄ֒ԭUnix/Linux෈կᔮᕹӾ෈կጱstatᕮ຅̶ znodeጱstatᕮ຅Ӿጱ

ਁྦྷดᐏইӥ҅ݱᛔጱތԎইӥғ

cZxidғڠୌznodeጱԪۓID̶ mZxidғ๋ץݸදznodeጱԪۓID̶ pZxidғ๋ץݸදႲے౲ڢᴻৼᜓᅩጱԪۓID̶

ctimeғᤒᐏ՗1970-01-01T00:00:00Z୏তզྺᑁԅ֖ܔጱznodeڠୌ෸ᳵ̶ mtimeғᤒᐏ՗1970-01-01T00:00:00Z୏তզྺᑁԅ֖ܔጱznode๋ᬪץද෸ᳵ̶ dataVersionғᤒᐏ੒ᧆznodeጱහഝಅ؉ጱๅදེහ̶ cversionғᬯᤒᐏ੒ྌznodeጱৼᜓᅩᬰᤈጱๅදེහ̶ aclVersionғᤒᐏ੒ྌznodeጱACLᬰᤈๅදጱེහ̶

ephemeralOwnerғইຎznodeฎephemeralᔄࣳᜓᅩ҅ڞᬯฎznodeಅํᘏጱ session ID̶ ইຎznodeӧฎephemeralᜓ ᅩ҅ڞᧆਁྦྷᦡᗝԅᵭ̶

dataLengthғᬯฎznodeහഝਁྦྷጱᳩଶ̶ numChildrenғᬯᤒᐏznodeጱৼᜓᅩጱහᰁ̶

## ²×!Œ-(,¼²():3ç$/¼

ᔄ֒ԭRDBMSӾጱԪۓID҅አԭຽᦩӞེๅෛ඙֢ጱProposal ID̶ԅԧכᦤᶲଧ௔҅ᧆzkid஠ᶳܔ᧣᭓ी̶ࢩྌZooKeeperֵአӞӻ 64֖ጱහ๶ᤒᐏ҅ṛ32֖ฎLeaderጱepoch҅՗1୏ত҅ྯེᭌڊෛጱLeader҅epochےӞ̶֗32֖ԅᧆepochٖጱଧݩ҅ྯེepochݒ ۸҅᮷ਖ਼֗32֖ጱଧݩ᯿ᗝ̶ᬯ໏כᦤԧzkidጱقੴ᭓ी௔̶

## \*(t\*-

Ӟӻzkጱᜓᅩݢզᤩፊഴ҅۱ೡᬯӻፓ୯Ӿਂؙጱහഝጱץද҅ৼᜓᅩፓ୯ጱ۸ݒ҅Ӟ෮ݢ۸ݒզ᭗Ꭳᦡᗝፊഴጱਮಁᒒ҅ᬯӻۑᚆฎ

zookeeper੒ԭଫአ๋᯿ᥝጱᇙ௔҅᭗ᬦᬯӻᇙ௔ݢզਫሿጱۑᚆ۱ೡᯈᗝጱᵞӾᓕቘ҅ᵞᗭᓕቘ҅ړ૲ୗᲁᒵᒵ̶

watch๢ګਥො᧔กғӞӻWatchԪկฎӞӻ**Ӟེ௔**ጱ᥶ݎ࢏҅୮ᤩᦡᗝԧWatchጱහഝݎኞԧදݒጱ෸ײ҅ڞ๐ۓ࢏ਖ਼ᬯӻදݎݒᭆᕳ ᦡᗝԧWatchጱਮಁᒒ҅զ׎᭗Ꭳਙժ̶

ݢզဳٙwatcherጱොဩғgetData̵exists̵getChildren̶ ݢզ᥶ݎwatcherጱොဩғcreate̵delete̵setData̶ᬳളෙ୏ጱఘ٭ӥ᥶ݎጱwatcherտӶ०̶ ӞӻWatcherਫֺฎӞӻࢧ᧣ڍහ҅ᤩࢧ᧣Ӟེݸ੪ᤩᑏᴻԧ̶ইຎᬮᵱᥝىဳහഝጱ۸ݒ҅ᵱᥝེٚဳٙwatcher̶ New ZooKeeper෸ဳٙጱwatcherݞdefault watcher҅ਙӧฎӞེ௔ጱ҅ݝ੒clientጱᬳളᇫாݍڊ֢۸ݒଫ̶

|  |  |  |
| --- | --- | --- |
|  | **event For "/path"** | **event For "/path/child"** |
| create(“/path”) | EventType.NodeCreated | ෫ |
| delete(“/path”) | EventType.NodeDeleted | ෫ |
| setData(“/path”) | EventType.NodeDataChanged | ෫ |
| create(“/path/child”) | EventType.NodeChildrenChangedҁgetChild҂ | EventType.NodeCreated |
| delete(“/path/child”) | EventType.NodeChildrenChangedҁgetChild҂ | EventType.NodeDeleted |
| setData(“/path/child”) | ෫ | EventType.NodeDataChanged |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **event For “/path”** | **Default Watcher** | **exists(“/path”)** | **getData(“/path”)** | **getChildren(“/path”)** |
| EventType.None | √ | √ | √ | √ |
| EventType.NodeCreated |  | √ | √ |  |
| EventType.NodeDeleted |  | √ | √ |  |
| EventType.NodeDataChanged |  | √ | √ |  |
| EventType.NodeChildrenChanged |  |  |  | √ |

exits޾getDataᦡᗝහഝፊᥤ҅ᘒgetChildrenᦡᗝৼᜓᅩፊᥤ

# S$m

## ½bW)x²NOŒª)

አᕳਧጱ᪠ஆڠୌӞӻᜓᅩ̶flag݇හ೰ਧڠୌጱᜓᅩฎԁ෸ጱ҅೮ԋጱᬮฎᶲଧጱ̶ἕᦊఘ٭ӥ҅ಅํᜓᅩ᮷ฎ೮ԋጱ̶ ୮տᦾᬦ๗౲ਮಁᒒෙ୏ᬳള෸҅ԁ෸ᜓᅩҁflagғ-e҂ਖ਼ᤩᛔڢۖᴻ̶

ᶲଧᜓᅩכᦤᜓᅩ᪠ஆਖ਼ฎࠔӞጱ̶

ZooKeeperᵞݳਖ਼ݻᜓᅩ᪠ஆऴ꧌10֖ଧݩڜ̶ֺই҅ᜓᅩ᪠ஆ /myapp ਖ਼᫨ഘԅ/myapp0000000001҅ӥӞӻଧݩڜਖ਼ ԅ/myapp0000000002̶ইຎဌํ೰ਧflag҅ڞᜓᅩᤩᦊԅฎ೮ԋጱ̶

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create /path data

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create /FirstNode first

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[zk: localhost:2181(CONNECTED) 3] create /FirstNode first Created /FirstNode

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create -s /path data

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create -s /FirstNode second

ᬌڊғ

[zk: localhost:2181(CONNECTED) 4] create -s /FirstNode second Created /FirstNode0000000018

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create -e /path data

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create -e /FirstNode-ephemeral ephemeral

ᬌڊғ

[zk: localhost:2181(CONNECTED) 6] create -e /FirstNode-ephemeral ephemeral Created /FirstNode-ephemeral

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## L08

ਙᬬࢧᜓᅩጱىᘶහഝ޾೰ਧᜓᅩጱزහഝ̶֦ਖ਼឴஑מ௳ֺ҅ইӤེץදහഝጱ෸ᳵ҅ץදጱ֖ᗝզ݊හഝጱፘמى௳̶ྌCLIᬮአ

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get /path

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get /FirstNode

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[zk: localhost:2181(CONNECTED) 7] get /FirstNode first

cZxid = 0xa2

ctime = Wed Dec 12 13:29:14 CST 2018 mZxid = 0xa2

mtime = Wed Dec 12 13:29:14 CST 2018 pZxid = 0xa2

cversion = 0

dataVersion = 0

aclVersion = 0 ephemeralOwner = 0x0 dataLength = 5

numChildren = 0

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get /FirstNode0000000018

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[zk: localhost:2181(CONNECTED) 9] get /FirstNode0000000018 second

cZxid = 0xa3

ctime = Wed Dec 12 13:30:44 CST 2018 mZxid = 0xa3

mtime = Wed Dec 12 13:30:44 CST 2018 pZxid = 0xa3

cversion = 0

dataVersion = 0

aclVersion = 0 ephemeralOwner = 0x0 dataLength = 6

numChildren = 0

## aN8

ᦡᗝ೰ਧznodeጱහഝ̶ਠ౮ྌᦡᗝ඙ݸ֢҅ݢ֦զֵአ get CLI޸ե༄ັහഝ̶

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set /path /data

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set /FirstNode first\_update

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[zk: localhost:2181(CONNECTED) 12] set /FirstNode first\_update

WATCHER::

WatchedEvent state:SyncConnected type:NodeDataChanged path:/FirstNode cZxid = 0xa2

ctime = Wed Dec 12 13:29:14 CST 2018 mZxid = 0xa6

mtime = Wed Dec 12 13:51:39 CST 2018 pZxid = 0xa2

cversion = 0

dataVersion = 1

aclVersion = 0 ephemeralOwner = 0x0 dataLength = 12

numChildren = 0

## ½bCW)

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create /parent/path/subnode/path data

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create /FirstNode/Child firstchildren

ᬌڊғ

[zk: localhost:2181(CONNECTED) 13] create /FirstNode/Child firstchildren Created /FirstNode/Child

[zk: localhost:2181(CONNECTED) 14] create /FirstNode/Child2 secondchildren Created /FirstNode/Child2

## c[CW)

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ls /path

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ls /FirstNode

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