

# 一体化数智运维平台

部署指南





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## 01-安装说明

注意:任何变更操作一定要提前做好备份。

本产品部署需要2台服务器:

服务器1部署Server、Provider、Agent、Zookeeper

服务器2部署Agent、gaussDB for MySQL数据库

环境配置需求							
服务器	类型	数量 (台)	CPU 核数 (C)	内存大小 <b>(GB</b> )	磁盘容量 (GB)	用途	
应用服务器 (server)	虚拟机	1	4	32	100	部署应用 server, 负责驱动作业和 流程,管理纳管节 点	
数据库服务 器	虚拟机	1	4	32	300	部署数据库,负责 存储数据。	

表1- 环境配置需求表

## 02-Zookeeper 安装

Zookeeper 在 linux 系统下安装。

- ◆ 安装包: apache-zookeeper-3.5.9-bin.tar.gz
- ♦ 安装过程:

[root@msproxy opt]#tar -zxvf apache-zookeeper-3.5.9-bin.tar.gz [root@msproxy opt]#cd apache-zookeeper-3.5.9-bin [root@msproxy apache-zookeeper-3.5.9-bin]# cd conf/ [root@msproxy conf]# cp zoo\_sample.cfg zoo.cfg [root@msproxy conf]# vi zoo.cfg # The number of milliseconds of each tick tickTime=2000 # The number of ticks that the initial # synchronization phase can take initLimit=10 # The number of ticks that can pass between # sending a request and getting an acknowledgement syncLimit=5 # the directory where the snapshot is stored. # do not use /tmp for storage, /tmp here is just # example sakes. dataDir=/tmp/zookeeper # the port at which the clients will connect clientPort=2181 # the maximum number of client connections. # increase this if you need to handle more clients #maxClientCnxns=60 # # Be sure to read the maintenance section of the # administrator guide before turning on autopurge. # # http://zookeeper.apache.org/doc/current/zookeeperAdmin.html#sc\_maintenance # # The number of snapshots to retain in dataDir #autopurge.snapRetainCount=3 # Purge task interval in hours # Set to "0" to disable auto purge feature #autopurge.purgeInterval=1 [root@msproxy conf]# cd ../bin [root@msproxy bin]# ./zkServer.sh start ZooKeeper JMX enabled by default

Using config: /opt/apache-zookeeper-3.5.9-bin/bin/../conf/zoo.cfg Starting zookeeper ... STARTED [root@msproxy opt] # ps -ef|grep zookeeper|grep -v grep 1 0 20:59 pts/0 root 19656 00:00:06 java -Dzookeeper.log.dir=/opt/apache-zookeeper-3.5.9-bin/bin/../logs -Dzookeeper.log.file=zookeeper-root-server-msproxy.log -Dzookeeper.root.logger=INFO, CONSOLE -XX:+HeapDumpOnOutOfMemoryError -XX:OnOutOfMemoryError=kill -9 %p -cp /opt/apache-zookeeper-3.5.9-bin/bin/../zookeeper-server/target/classes:/opt/apache-zookeeper-3.5. 9-bin/bin/../build/classes:/opt/apache-zookeeper-3.5.9-bin/bin/../zookeeper-server/target/lib/\*.j ar:/opt/apache-zookeeper-3.5.9-bin/bin/../build/lib/\*.jar:/opt/apache-zookeeper-3.5.9-bin/bin/../ lib/zookeeper-jute-3. 5. 9. jar:/opt/apache-zookeeper-3. 5. 9-bin/bin/../lib/zookeeper-3. 5. 9. jar:/opt/ apache-zookeeper-3.5.9-bin/bin/../lib/slf4j-log4j12-1.7.25. jar:/opt/apache-zookeeper-3.5.9-bin/bi n/../lib/slf4j-api-1.7.25.jar:/opt/apache-zookeeper-3.5.9-bin/bin/../lib/netty-transport-native-u nix-common-4.1.50. Final. jar:/opt/apache-zookeeper-3.5.9-bin/bin/../lib/netty-transport-native-epo 11-4.1.50.Final.jar:/opt/apache-zookeeper-3.5.9-bin/bin/../lib/netty-transport-4.1.50.Final.jar:/ opt/apache-zookeeper-3. 5. 9-bin/bin/../lib/netty-resolver-4. 1. 50. Final. jar:/opt/apache-zookeeper-3 .5.9-bin/bin/../lib/netty-handler-4.1.50.Final.jar:/opt/apache-zookeeper-3.5.9-bin/bin/../lib/net ty-common-4.1.50.Final.jar:/opt/apache-zookeeper-3.5.9-bin/bin/../lib/netty-codec-4.1.50.Final.ja r:/opt/apache-zookeeper-3.5.9-bin/bin/../lib/netty-buffer-4.1.50.Final.jar:/opt/apache-zookeeper-3.5.9-bin/bin/../lib/log4j-1.2.17.jar:/opt/apache-zookeeper-3.5.9-bin/bin/../lib/json-simple-1.1. 1. jar:/opt/apache-zookeeper-3. 5. 9-bin/bin/../lib/jline-2. 14. 6. jar:/opt/apache-zookeeper-3. 5. 9-bin /bin/../lib/jetty-util-ajax-9.4.35.v20201120.jar:/opt/apache-zookeeper-3.5.9-bin/bin/../lib/jetty -util-9.4.35.v20201120.jar:/opt/apache-zookeeper-3.5.9-bin/bin/../lib/jetty-servlet-9.4.35.v20201 120. jar:/opt/apache-zookeeper-3. 5. 9-bin/bin/../lib/jetty-server-9. 4. 35. v20201120. jar:/opt/apachezookeeper-3. 5. 9-bin/bin/../lib/jetty-security-9. 4. 35. v20201120. jar:/opt/apache-zookeeper-3. 5. 9-bi n/bin/../lib/jetty-io-9.4.35.v20201120.jar:/opt/apache-zookeeper-3.5.9-bin/bin/../lib/jetty-http-9.4.35.v20201120.jar:/opt/apache-zookeeper-3.5.9-bin/bin/../lib/javax.servlet-api-3.1.0.jar:/opt/ apache-zookeeper-3.5.9-bin/bin/../lib/jackson-databind-2.10.5.1. jar:/opt/apache-zookeeper-3.5.9-b in/bin/../lib/jackson-core-2.10.5. jar:/opt/apache-zookeeper-3.5.9-bin/bin/../lib/jackson-annotati ons-2.10.5. jar:/opt/apache-zookeeper-3.5.9-bin/bin/../lib/commons-cli-1.2. jar:/opt/apache-zookeep er-3.5.9-bin/bin/../lib/audience-annotations-0.5.0. jar:/opt/apache-zookeeper-3.5.9-bin/bin/../zoo keeper-\*. jar:/opt/apache-zookeeper-3. 5. 9-bin/bin/../zookeeper-server/src/main/resources/lib/\*. jar :/opt/apache-zookeeper-3.5.9-bin/bin/../conf: -Xmx1000m -Dcom.sun.management.jmxremote -Dcom. sun. management. jmxremote. local.only=false org.apache.zookeeper.server.quorum.QuorumPeerMain

/opt/apache-zookeeper-3.5.9-bin/bin/../conf/zoo.cfg

## 03-Entegor Server 与 Provider 安装

#### 注意:安装 server 时,必须使用 zh\_CN. utf8 字符集。

[root@msproxy v8.1.0]# export LANG=zh\_CN.utf8
[root@msproxy v8.1.0]# echo \$LANG

zh\_CN.utf8

安装 Server 首先要将 EntegorServer.bin 通过 FTP 等工具传输(传输时要求使用二进制 方式进行传输)到指定的 Linux 服务器上,然后进入安装文件所在的目录,为 EntegorServer.bin文件赋予可执行权限。执行命令 [root@study66 opt]# chmod 777 Entegor\_Server\_Linux64\_157612.bin

进行 Entegor Server 的安装,运行安装命令 [root@study66 opt]#./Entegor\_Server\_Linux64\_157612.bin -i console 进行 Entegor Server 的安装:



点击回车进行继续进行安装:

<u></u>	
Entegor V4.0.0	(created with InstallAnywhere)
Thtroduction	
InstallAnywhere will guide you through the i	nstallation of Entegor V4.0.0.
It is strongly recommended that you quit all this installation.	programs before continuing with
Respond to each prompt to proceed to the nex want to change something on a previous step,	t step in the installation. If you type 'back'.
You may cancel this installation at any time	by typing 'quit'.
PRESS <enter> TO CONTINUE:</enter>	
选择 [](典型安装)继续进行 Entegor Serv	ver 的安装:



选择 Entegor Server 的安装路径,可以不使用默认路径,用户可根据需要自行确定 Entegor Server 的安装路径:



重新定义安装路径后继续进行安装:

Choose Install Folder

where would you like to install?

Default Install Folder: /opt/Entegor4.0.0

ENTER AN ABSOLUTE PATH, OR PRESS <ENTER> TO ACCEPT THE DEFAULT : /opt/Entegor/Entegor4.0.0

输入 Y 确定安装路径,继续进行安装:

Choose Install Folder

where would you like to install?

Default Install Folder: /opt/Entegor4.0.0

ENTER AN ABSOLUTE PATH, OR PRESS <ENTER> TO ACCEPT THE DEFAULT : /opt/Entegor/Entegor4.0.0

INSTALL FOLDER IS: /opt/Entegor/Entegor4.0.0
IS THIS CORRECT? (Y/N):

输入4,选择不创建关联继续进行安装:



安装过程:

安装成功.

## 04-Entegor Agent 安装

将 EntegorAgent. bin 拷贝(传输时要求使用二进制方式进行传输)到指定的 Linux 服务器

上,然后进入安装文件所在的目录:

[root@study66 opt]# cd /安装目录

为 EntegorAgent. bin 文件赋予可执行权限。

执行命令:

[root@study66 opt]# chmod 777 V8\_Entegor\_Agent\_Linux\_JDK18\_64\_157612\_20230425\_234147.bin

执行命令:

[root@study66 opt]# ./V8\_Entegor\_Agent\_Linux\_JDK18\_64\_157612\_20230425\_234147.bin -i console
[root@study66 opt]# ./V8\_Entegor\_Agent\_Linux\_JDK18\_64\_157612\_20230425\_234147.bin -i console

回车继续。



回车继续。

\_\_\_\_\_

Choose Install Set

Please choose the Install Set to be installed by this installer.

->1- Typical 2- Minimal

ENTER THE NUMBER FOR THE INSTALL SET, OR PRESS <ENTER> TO ACCEPT THE DEFAULT :

选择您想要的安装模式,选择1典型安装。

回车继续。



填写安装目录,默认安装到/opt/EntegorAgent目录下,可以不采用该默认路径。安装到用户指定的某个目录(该目录必须是已经创建的),回车继续



确认安装目录是否正确,如确认则输入 y。回车继续

此步询问是否需要创建链接文件,默认选择为 1 创建连接文件夹,连接文件夹为: /usr/local/bin/Entegor\_V4.7.6。建议选择 4 。

回车开始安装。



回车后退出安装界面,安装结束。

## 05-服务启动

#### 5.1 Entegor Server 与 Provider 的启动

该方式是手工启动 Server 服务的方式,在系统重新启动后需要手工执行如下后台启动方式。

#### ◆ Entegor Server 后台方式:

以具有可执行权限的用户登陆,输入如下命令,对 Server 进行后台启动,如图所示:

[root@msproxy v8.1.0]# nohup ./Server >Server.out &

[1] 11055

[root@msproxy v8.1.0]# nohup: 忽略输入重定向错误到标准输出端

[root@msproxy v8.1.0]#

查看 Server. out, 最后几行如图所示:

十一月 12, 2020 3:45:26 下午 org.apache.catalina.core.ApplicationContext log
信息: Initializing Spring DispatcherServlet 'restservices'
2020-11-12 15:45:26 [INFO ] DispatcherServlet: Initializing Servlet 'restservices'
2020-11-12 15:45:26 [INFO ] DispatcherServlet: Completed initialization in 17 ms
2020-11-12 15:45:26 [INFO ] Bootstrap: Registering aoms succeeded!
十一月 12, 2020 3:45:26 下午 org.apache.catalina.core.ApplicationContext log
信息: No Spring WebApplicationInitializer types detected on classpath
2020-11-12 15:45:26 [INFO ] Bootstrap: Registering editor succeeded!
十一月 12, 2020 3:45:26 下午 org.apache.catalina.core.ApplicationContext log
信息: No Spring WebApplicationInitializer types detected on classpath
十一月 12, 2020 3:45:26 下午 org.apache.catalina.core.ApplicationContext log
信息: No Spring WebApplicationInitializer types detected on classpath
2020-11-12 15:45:26 [INFO ] Engine: AgentConcurrentMonitor start succeeded!
2020-11-12 15:45:26 [INFO ] Engine: IP:90.14.0.30 is MainServer and will be stateed!
2020-11-12 15:45:26 [INFO ] Engine: SendRomteMainThread start succeeded!
2020-11-12 15:45:26 [INFO ] Engine: IP:90.14.0.30 is MainServer and will be stateed!
2020-11-12 15:45:26 [INFO ] Engine: Entegor Server has been started successfully!
2020-11-12 15:45:26 [INFO ] Bootstrap: MonthReportThread start successfully
2020-11-12 15:45:26 [INFO ] Bootstrap: TimeAreaActCountThread start successfully
2020-11-12 15:45:26 [INFO ] Bootstrap: ClearDataThreadForJobscheduling start successfully
2020-11-12 15:45:26 [INFO ] Bootstrap: AvgTimeThreadForJobscheduling start successfully
2020-11-12 15:45:26 [INFO ] Bootstrap: Entegor Server has been started successfully!
Starting Tyrex Version 1.0
Intalio Inc. (C) 1999-2001. All rights reserved.

#### ◆ Provider 后台方式:

以具有可执行权限的用户登陆,输入如下命令,对 Provider 进行后台启动,如图所示:

[root@msproxy v8.1.0]# nohup ./Provider >provider.out &

[1] 11055

[root@msproxy v8.1.0]# nohup: 忽略输入重定向错误到标准输出端

[root@msproxy v8.1.0]#

|2020-11-12 15:42:31 [INFO ] ProviderBootstrap: 连接注册zookeeper服务成功 |2020-11-12 15:42:31 [INFO ] ProviderBootstrap: Entegor Provier has been started sucessfully! |2020-11-12 15:42:36 [INFO ] KillFailOperConnThread: KillFailOperConnThread start successfully!

### 5.2 Entegor Agent 的启动

该方式是手工启动 Agent 服务的方式,在系统重新启动后需要手工执行如下后台启动方式。

后台方式:

以具有可执行权限的用户登陆,输入如下命令,对 Agent 进行后台启动,如图所示:

[root@msproxy AgentV8]# nohup ./Agent\_Server >/dev/null &

[3] 12431

[root@msproxy AgentV8]# nohup: 忽略输入重定向错误到标准输出端

查看 Agent 安装目录/log/agent. log, 最后几行如图所示:

[root@study66 EntegorAgent]# cd log
[root@study66 log]# tail -100f agent.log

2010-06-03 15:33:00,022 INFO core.EntegorInfo: Welcome to Entegor(tm)! 2010-06-03 15:33:00,033 INFO core.EntegorInfo: Agent V4.0.0 2010-06-03 15:33:00,034 INFO core.EntegorInfo: Copyright(c) 2002-2010 Ideal Technologies Incorporated Initializing iEAI Agent.. 2010-06-03 15:33:01,109 INFO \_\_agent.IEAIRemoteAgent: iEAI Agent has been started sucessfully!

Agent 服务启动成功。