作業手順書

：yyyy/mm/dd

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訊和創新科技（北京）

項番	サーバ区分	作業者	想定時間	作業項目	作業内容	チェック	作業時刻	備考
1	测试 Rocket.Chatサーバ		0:00:02	登陆Rocket.Chatサーバ	localhost login: root Password:********	测试Rocket.Chatサーバへログインできること		此处输入安装系统时设置的root 密码 （采用最小化安装的CentOS 7.2 x86_64操作系统 ）
2	测试 Rocket.Chatサーバ		0:00:06	设置主机名	[root@localhost ~]# hostnamectl set-hostname RocketChat [root@localhost ~]# echo "192.168.92.130 rocketchat" >> /etc/hosts	[root@localhost ~]#hostname rocketchat		主机名自己定义，我这里设置成RocketChat （本文档中所使用的IP地址192.168.92.130 是安装Rocket.Chat这台服务器的IP地址）
3	测试 Rocket.Chatサーバ		0:02:00	设置IP地址	[root@rocketchat ~]# sed -i s#BOOTPROTO=dhcp#BOOTPROTO=none# /etc/sysconfig/network-scripts/ifcfg-eth0 [root@rocketchat ~]# sed -i s#ONBOOT=no#ONBOOT=yes# /etc/sysconfig/network-scripts/ifcfg-eth0 [root@rocketchat ~]# echo "IPADDR=192.168.92.130" >> /etc/sysconfig/network-scripts/ifcfg-eth0 [root@rocketchat ~]# echo "NETMASK=255.255.255.0" >> /etc/sysconfig/network-scripts/ifcfg-eth0 [root@rocketchat ~]# echo "GATEWAY=192.168.92.254" >> /etc/sysconfig/network-scripts/ifcfg-eth0	[root@localhost ~]cat /etc/sysconfig/network-scripts/ifcfg-eth0 TYPE=Ethernet PROXY_METHOD=none BROWSER_ONLY=no BOOTPROTO=none DEFROUTE=yes IPV4_FAILURE_FATAL=no IPV6INIT=yes IPV6_AUTOCONF=yes IPV6_DEFROUTE=yes IPV6_FAILURE_FATAL=no IPV6_ADDR_GEN_MODE=stable-privacy NAME=eth0 UUID=7bee5551-b401-430f-84d0-72fe7b7cc191 DEVICE=eth0 ONBOOT=yes IPADDR=192.168.92.130 NETMASK=255.255.255.0 GATEWAY=192.168.92.254		/etc/sysconfig/network-scripts/ifcfg-eth0这个网卡设备名需要根据实际设备名设置 （192.168.92.130这个IP 地址需要能访问Internet，有下载权限）
4	测试 Rocket.Chatサーバ		0:00:08	DNS设置	[root@rocketchat ~]# echo "nameserver 4.2.2.2" > /etc/resolv.conf [root@rocketchat ~]# echo "nameserver 8.8.8.8" >> /etc/resolv.conf	[root@rocketchat ~]# cat /etc/resolv.conf nameserver 4.2.2.2 nameserver 8.8.8.8		增加internet的DNS服务器IP地址
5	测试 Rocket.Chatサーバ		0:00:08	防火墙设置	[root@rocketchat ~]# systemctl stop firewalld.service [root@rocketchat ~]# systemctl disable firewalld.service	[root@rocketchat ~]# systemctl status firewalld.service ● firewalld.service - firewalld - dynamic firewall daemon Loaded: loaded (/usr/lib/systemd/system/firewalld.service; disabled; vendor preset: enabled) Active: inactive (dead) Docs: man:firewalld(1) Jan 15 02:42:21 rocketchat systemd[1]: Starting firewalld - dynamic firewall daemon... Jan 15 02:42:21 rocketchat systemd[1]: Started firewalld - dynamic firewall daemon. Jan 15 04:06:33 rocketchat systemd[1]: Stopping firewalld - dynamic firewall daemon... Jan 15 04:06:34 rocketchat systemd[1]: Stopped firewalld - dynamic firewall daemon.		关闭防火墙 禁用防火墙
6	测试 Rocket.Chatサーバ		0:02:00	关闭SElinux设置	[root@rocketchat ~]# sed -i s#SELINUX=enforcing#SELINUX=disabled# /etc/selinux/config [root@rocketchat ~]# reboot localhost login: root Password:********	[root@rocketchat ~]# sestatus SELinux status: disabled		更改完SELinux的设置后 需要重新启动系统并再次登陆 最后通过sestatus命令验证
7	测试 Rocket.Chatサーバ		0:02:00	安装依赖软件	[root@rocketchat ~]# yum -y install epel-release curl gcc-c++ [root@rocketchat ~]# yum -y install GraphicsMagick	[root@rocketchat ~]# rpm -qa | egrep 'epel-release|curl|gcc|GraphicsMagick' libgcc-4.8.5-36.el7.x86_64 libcurl-7.29.0-51.el7.x86_64 gcc-4.8.5-36.el7.x86_64 curl-7.29.0-51.el7.x86_64 epel-release-7-11.noarch GraphicsMagick-1.3.31-2.el7.x86_64 gcc-c++-4.8.5-36.el7.x86_64 python-pycurl-7.19.0-19.el7.x86_64		
8	测试 Rocket.Chatサーバ		0:00:05	创建新的系统用户rocket	[root@rocketchat ~]# useradd -m -U -r -d /opt/rocket rocket [root@rocketchat ~]# chmod 750 /opt/rocket	[root@rocketchat ~]# grep rocket /etc/passwd rocket:x:997:995::/opt/rocket:/bin/bash [root@rocketchat ~]# ll -d /opt/rocket drwxr-x--- 2 rocket rocket 62 Jan 15 21:04 /opt/rocket		
9	测试 Rocket.Chatサーバ		0:00:02	切换到rocket用户环境	[root@rocketchat ~]# su - rocket	[rocket@rocketchat ~]$ id uid=997(rocket) gid=995(rocket) groups=995(rocket)		
10	测试 Rocket.Chatサーバ		0:10:00	用curl下载最新的Rocket.Chat稳定版本	[rocket@rocketchat ~]$ curl -L https://releases.rocket.chat/latest/download -o rocket.chat.tgz	[rocket@rocketchat ~]$ ll total 153248 -rw-rw-r-- 1 rocket rocket 156923996 Jan 15 22:16 rocket.chat.tgz		
11	测试 Rocket.Chatサーバ		0:02:00	解压rocket.chat.tgz并重命名	[rocket@rocketchat ~]$ tar -zxv -f rocket.chat.tgz [rocket@rocketchat ~]$ mv bundle rocket.chat	[rocket@rocketchat ~]$ ll total 153248 drwxr-xr-x 4 rocket rocket 107 Jan 7 11:31 rocket.chat -rw-rw-r-- 1 rocket rocket 156923996 Jan 15 22:16 rocket.chat.tgz		

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12	测试
	Rocket.Chatサーバ
			0:00:02	进入Rocket.Chat目录查看所需信息	[rocket@rocketchat ~]$ cd rocket.chat
					[rocket@rocketchat rocket.chat]$ cat README
						[rocket@rocketchat rocket.chat]$ cat README
						This is a Meteor application bundle. It has only one external dependency:
						Node.js v8.11.4. To run the application:
						
						  $ (cd programs/server && npm install)
						  $ export MONGO_URL='mongodb://user:password@host:port/databasename'
						  $ export ROOT_URL='http://example.com'
						  $ export MAIL_URL='smtp://user:password@mailhost:port/'
						  $ node main.js
						
						Use the PORT environment variable to set the port where the
						application will listen. The default is 80, but that will require
						root on most systems.
						
						Find out more about Meteor at meteor.com.
								了解README中的内容
								后续操作会用到

13	测试 Rocket.Chatサーバ		0:00:30	安装Node.js和npm并更新openssl	[rocket@rocketchat rocket.chat]$ exit [root@rocketchat ~]# yum -y install nodejs npm [root@rocketchat ~]# yum -y update openssl	[root@rocketchat ~]# rpm -qa | egrep 'nodejs|npm|openssl' npm-3.10.10-1.6.14.3.1.el7.x86_64 openssl-libs-1.0.2k-16.el7.x86_64 nodejs-6.14.3-1.el7.x86_64 openssl-1.0.2k-16.el7.x86_64		在执行yum命令之前需要执行 exit命令退回到root用户
14	测试 Rocket.Chatサーバ		0:00:20	安装Node.js	[root@rocketchat ~]# npm install -g inherits n [root@rocketchat ~]# n 8.11.4	[root@rocketchat ~]# n o node/8.11.4 node/8.11.4		安装上两部README中显示的 Node.js的版本v8.11.4

15	测试
	Rocket.Chatサーバ
			0:03:00	安装MongoDB	①新建安装mondodb的yum源
					[root@rocketchat ~]# echo '[mongodb-org-3.2]' > /etc/yum.repos.d/mongodb-org-3.2.repo
					[root@rocketchat ~]# echo 'name=MongoDB Repository' >> /etc/yum.repos.d/mongodb-org-3.2.repo
					[root@rocketchat ~]# echo 'baseurl=https://repo.mongodb.org/yum/redhat/$releasever/mongodb-org/3.2/x86_64/' >> /etc/yum.repos.d/mongodb-org-3.2.repo
					[root@rocketchat ~]# echo 'gpgcheck=0' >> /etc/yum.repos.d/mongodb-org-3.2.repo
					[root@rocketchat ~]# echo 'enabled=1' >> /etc/yum.repos.d/mongodb-org-3.2.repo
					②安装mongodb
					[root@rocketchat ~]# yum -y install mongodb-org
					③修改内核参数
					[root@rocketchat ~]# echo 'echo "never" >> /sys/kernel/mm/transparent_hugepage/enabled' >> /etc/rc.d/rc.local
					[root@rocketchat ~]# echo 'echo "never" >> /sys/kernel/mm/transparent_hugepage/defrag' >> /etc/rc.d/rc.local
					[root@rocketchat ~]# chmod 755 /etc/rc.d/rc.local
					④设置操作系统打开文件最大数和进程最大数
					[root@rocketchat ~]# echo 'mongod soft nofile 64000' >> /etc/security/limits.conf
					[root@rocketchat ~]# echo 'mongod hard nofile 64000' >> /etc/security/limits.conf
					[root@rocketchat ~]# echo 'mongod soft nproc 32000' >> /etc/security/limits.conf
					[root@rocketchat ~]# echo 'mongod hard nproc 32000' >> /etc/security/limits.conf
					⑤重新启动系统
					[root@rocketchat ~]# reboot
						[root@rocketchat ~]# cat /etc/yum.repos.d/mongodb-org-3.2.repo
						[mongodb-org-3.2]
						name=MongoDB Repository
						baseurl=https://repo.mongodb.org/yum/redhat/$releasever/mongodb-org/3.2/x86_64/
						gpgcheck=0
						enabled=1
						[root@rocketchat ~]# rpm -qa | grep mongodb
						mongodb-org-server-3.2.22-1.el7.x86_64
						mongodb-org-mongos-3.2.22-1.el7.x86_64
						mongodb-org-3.2.22-1.el7.x86_64
						mongodb-org-shell-3.2.22-1.el7.x86_64
						mongodb-org-tools-3.2.22-1.el7.x86_64
						[root@rocketchat ~]# grep echo /etc/rc.d/rc.local
						echo "never" >> /sys/kernel/mm/transparent_hugepage/enabled
						echo "never" >> /sys/kernel/mm/transparent_hugepage/defrag
						[root@rocketchat ~]# ll /etc/rc.d/rc.local
						-rwxr-xr-x. 1 root root 592 Jan 16 01:31 /etc/rc.d/rc.local
						[root@rocketchat ~]# grep mongod /etc/security/limits.conf
						mongod soft nofile 64000
						mongod hard nofile 64000
						mongod soft nproc 32000
						mongod hard nproc 32000
						[root@rocketchat ~]# systemctl status mongod
						● mongod.service - SYSV: Mongo is a scalable, document-oriented database.
						   Loaded: loaded (/etc/rc.d/init.d/mongod; bad; vendor preset: disabled)
						   Active: active (running) since Thu 2019-01-17 02:40:09 EST; 11min ago
						     Docs: man:systemd-sysv-generator(8)
						  CGroup: /system.slice/mongod.service
						          └─939 /usr/bin/mongod -f /etc/mongod.conf
						
						Jan 17 02:40:08 rocketchat systemd[1]: Starting SYSV: Mongo is a scalable, document-oriented database....
						Jan 17 02:40:08 rocketchat runuser[904]: pam_unix(runuser:session): session opened for user mongod by (uid=0)
						Jan 17 02:40:09 rocketchat runuser[904]: pam_unix(runuser:session): session closed for user mongod
						Jan 17 02:40:09 rocketchat systemd[1]: Started SYSV: Mongo is a scalable, document-oriented database..		

16	测试
	Rocket.Chatサーバ
			0:05:00	安装Rocket.Chat	①登陆系统
					localhost login: root
					Password:********
					②切换到rocket用户
					[root@rocketchat ~]# su - rocket
					③增加环境变量
					[rocket@rocketchat ~]$ echo 'export PORT=3000' >> .bash_profile
					[rocket@rocketchat ~]$ echo 'export ROOT_URL=http://192.168.92.130:3000/' >> .bash_profile
					[rocket@rocketchat ~]$ echo 'export MONGO_URL=mongodb://localhost:27017/rocketchat' >> .bash_profile
					④使新增变量生效
					[rocket@rocketchat ~]$ source .bash_profile
					⑤安装
					[rocket@rocketchat ~]$ cd ./rocket.chat/programs/server/
					[rocket@rocketchat server]$ npm install
					[rocket@rocketchat server]$ cd ../../
					[rocket@rocketchat rocket.chat]$ node main.js
					⑥
					Ctrl+ c 停止Rocket.Chat服务
					⑦创建Rocket.Chat服务的systemd单元
					[rocket@rocketchat server]$ exit
					[root@rocketchat ~]# echo '[Unit]' >> /etc/systemd/system/rocketchat.service
					[root@rocketchat ~]# echo 'Description=Rocket.Chat server' >> /etc/systemd/system/rocketchat.service
					[root@rocketchat ~]# echo 'After=network.target nss-lookup.target mongod.target' >> /etc/systemd/system/rocketchat.service
					[root@rocketchat ~]# echo '[Service]' >> /etc/systemd/system/rocketchat.service
					[root@rocketchat ~]# echo 'StandardOutput=syslog' >> /etc/systemd/system/rocketchat.service
					[root@rocketchat ~]# echo 'StandardError=syslog' >> /etc/systemd/system/rocketchat.service
					[root@rocketchat ~]# echo 'SyslogIdentifier=rocketchat' >> /etc/systemd/system/rocketchat.service
					[root@rocketchat ~]# echo 'User=rocket' >> /etc/systemd/system/rocketchat.service
					[root@rocketchat ~]# echo 'Environment=MONGO_URL=mongodb://localhost:27017/rocketchat ROOT_URL=http://192.168.92.130:3000/ PORT=3000' >> /etc/systemd/system/rocketchat.service
					[root@rocketchat ~]# echo 'ExecStart=/usr/local/bin/node /opt/rocket/rocket.chat/main.js' >> /etc/systemd/system/rocketchat.service
						[rocket@rocketchat ~]$ id
						uid=997(rocket) gid=995(rocket) groups=995(rocket)
						[rocket@rocketchat ~]$ grep export .bash_profile
						export PATH
						export PORT=3000
						export ROOT_URL=http://192.168.92.130:3000/
						export MONGO_URL=mongodb://localhost:27017/rocketchat
						[rocket@rocketchat ~]$ env | egrep 'PORT|ROOT_URL|MONGO_URL'
						MONGO_URL=mongodb://localhost:27017/rocketchat
						ROOT_URL=http://192.168.92.130:3000/
						PORT=3000
						[root@rocketchat ~]# cat /etc/systemd/system/rocketchat.service
						[Unit]
						Description=Rocket.Chat server
						After=network.target nss-lookup.target mongod.target
						[Service]
						StandardOutput=syslog
						StandardError=syslog
						SyslogIdentifier=rocketchat
						User=rocket
						Environment=MONGO_URL=mongodb://localhost:27017/rocketchat ROOT_URL=http://192.168.92.130:3000/ PORT=3000
						ExecStart=/usr/local/bin/node /opt/rocket/rocket.chat/main.js
						[Install]
						WantedBy=multi-user.target
						[root@rocketchat ~]# systemctl status rocketchat.service
						● rocketchat.service - Rocket.Chat server
						   Loaded: loaded (/etc/systemd/system/rocketchat.service; disabled; vendor preset: disabled)
						   Active: active (running) since Wed 2019-01-16 20:59:06 EST; 2min 4s ago
						 Main PID: 19033 (node)
						   CGroup: /system.slice/rocketchat.service
						           └─19033 /usr/local/bin/node /opt/rocket/rocket.chat/main.js
						
						Jan 16 20:59:47 rocketchat rocketchat[19033]: ? | Rocket.Chat Version: 0.73.2 |
						Jan 16 20:59:47 rocketchat rocketchat[19033]: ? | NodeJS Version: 8.11.4 - x64 |
								执行[rocket@rocketchat rocket.chat]$ node main.js后有以下信息输出说明安装成功
								
								Rocket.Chat Version: 0.73.2
								NodeJS Version: 8.11.4 - x64
								Platform: linux
								Process Port: 3000
								Site URL: http://192.168.92.130:3000/
								ReplicaSet OpLog: Disabled
								Commit Hash: 8ff0e3da16
								Commit Branch: HEAD

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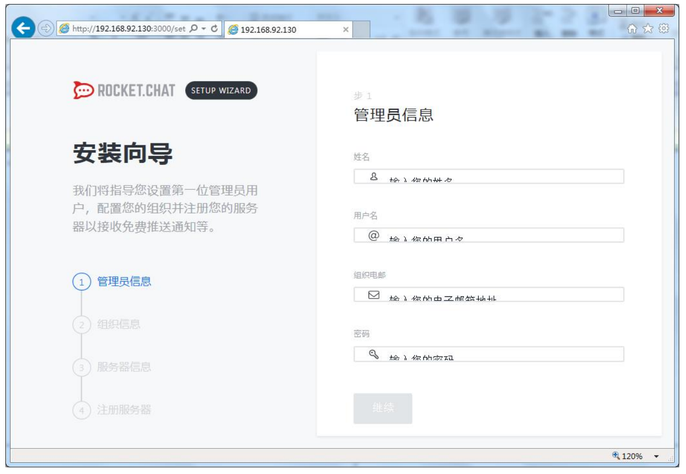
17	測试 Rocket.Chatサーバ		0:00:05	浏览器访问	打开浏览器并键入：http://192.168.92.130:3000			
		合計	0:27:28					