

Jenkins 构建 VEM 安装包操作文档

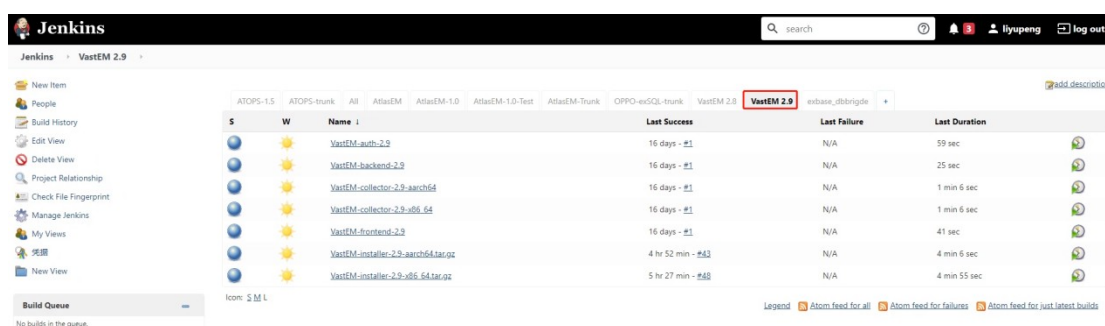
1. Jenkins 地址

http://172.16.19.119/jenkins

2. 账号密码

liyupeng/123456

3. 根据所需版本号来选择



The screenshot shows the Jenkins interface for the 'VastEM 2.9' job. The 'VastEM 2.9' tab is selected. The table below lists the build history:

S	W	Name	Last Success	Last Failure	Last Duration
		VastEM-auth-2.9	16 days - #1	N/A	59 sec
		VastEM-backend-2.9	16 days - #1	N/A	25 sec
		VastEM-collector-2.9-aarch64	16 days - #1	N/A	1 min 6 sec
		VastEM-collector-2.9-x86_64	16 days - #1	N/A	1 min 6 sec
		VastEM-frontend-2.9	16 days - #1	N/A	41 sec
		VastEM-installer-2.9-aarch64.tar.gz	4 hr 52 min - #43	N/A	4 min 6 sec
		VastEM-installer-2.9-x86_64.tar.gz	5 hr 27 min - #48	N/A	4 min 55 sec

4. 根据具体的架构和需求选择项目



The screenshot shows the same Jenkins interface as above, but with red annotations in the 'Name' column to identify specific components:

S	W	Name	Last Success	Last Failure	Last Duration
		VastEM-auth-2.9 鉴权	16 days - #1	N/A	59 sec
		VastEM-backend-2.9 后端	16 days - #1	N/A	25 sec
		VastEM-collector-2.9-aarch64 采集器 arm架构	16 days - #1	N/A	1 min 6 sec
		VastEM-collector-2.9-x86_64 采集器 x86架构	16 days - #1	N/A	1 min 6 sec
		VastEM-frontend-2.9 前端	16 days - #1	N/A	41 sec
		VastEM-installer-2.9-aarch64.tar.gz 安装包 arm架构	4 hr 52 min - #43	N/A	4 min 6 sec
		VastEM-installer-2.9-x86_64.tar.gz 安装包 x86架构	5 hr 27 min - #48	N/A	4 min 55 sec

最底下的两个安装包是每天定时执行自动构建一次，也可根据需要手动构建。

其他的具体功能相关的包，可以在开发实现后，我们手动构建，然后替换对应的文件。

5.选择项目后构建包

如我们要 2.9 版本的 x86 架构的安装包，就点击最后一个项目，如下图所示：

ATOPS-1.5ATOPS-trunkAllAtlasEMAtlasEM-1.0AtlasEM-1.0-TestAtlasEM-TrunkOPPO-exSQL-trunkVastEM 2.8VastEM 2.9exbase_dbbrigde+add description

S	W	Name	Last Success	Last Failure	Last Duration	
		VastEM-auth-2.9	16 days - #1	N/A	59 sec	
		VastEM-backend-2.9	16 days - #1	N/A	25 sec	
		VastEM-collector-2.9-aarch64	16 days - #1	N/A	1 min 6 sec	
		VastEM-collector-2.9-x86_64	16 days - #1	N/A	1 min 6 sec	
		VastEM-frontend-2.9	16 days - #1	N/A	41 sec	
		VastEM-installer-2.9-aarch64.tar.gz	7 hr 42 min - #43	N/A	4 min 6 sec	
		VastEM-installer-2.9-x86_64.tar.gz	8 hr 17 min - #48	N/A	4 min 55 sec	

Icons: S W L

LegendAtom feed for allAtom feed for failuresAtom feed for just latest builds

然后点击 Build Now，立即构建

Jenkins

Jenkins > VastEM 2.9 > VastEM-installer-2.9-x86_64.tar.gz >

Back to Dashboard

Status

Changes

Workspace

Build Now

Delete Project

Configure

Rename

Project VastEM-installer-2.9-x86_64.tar.gz

Workspace

Recent Changes

Permalinks

Last build (#48), 8 hr 18 min ago

Last stable build (#48), 8 hr 18 min ago

Last successful build (#48), 8 hr 18 min ago

Last completed build (#48), 8 hr 18 min ago

Build History

trend

find

#482022-4-11 上午8:41

#472022-4-10 上午8:38

#462022-4-9 上午8:42

#452022-4-8 下午6:07

可以在以下区域看到构建历史，我们刚构建应该是最上面显示任务进度

Back to Dashboard

Status

Changes

Workspace

Build Now

Delete Project

Configure

Rename

Project VastEM-installer-2.9-x86_64.tar.gz

Workspace

Recent Changes

Permalinks

Last build (#48), 8 hr 18 min ago

Last stable build (#48), 8 hr 18 min ago

Last successful build (#48), 8 hr 18 min ago

Last completed build (#48), 8 hr 18 min ago

Build History

trend

find

#49

2022-4-11 下午5:02

#48

2022-4-11 上午8:41

#47

2022-4-10 上午8:38

#46

2022-4-9 上午8:42

大概 5 分钟构建完成，状态如下：

Build History

trend

find

#49

2022-4-11 下午5:02

#48

2022-4-11 上午8:41

#47

2022-4-10 上午8:38

也可以看具体的日志，点击#49 然后点击 Console Output

Jenkins > VastEM 2.9 > VastEM-installer-2.9-x86_64.tar.gz > #49

Back to Project

Status

Changes

Console Output

View as plain text

Edit Build Information

Delete build '#49'

Previous Build

Console Output

Skipping 29 KB.. Full Log

s

dist/static/js/chunk-dea2b364.43e7648f.js32.59 KiB8.37 KiB

dist/static/js/chunk-f0f5720a.38e47f71.js27.75 KiB7.37 KiB

dist/static/js/chunk-304fd374.8138be70.js25.93 KiB7.09 KiB

dist/static/js/chunk-29b8c3b8.545629de.js24.98 KiB6.24 KiB

dist/static/js/chunk-1a18bf1c.ffa70c87.js24.71 KiB7.34 KiB

6.构建完成后可以根据架构类型去不同的服务器取包

如果是 x86 的包，需要去 172.16.19.138 的/vastem 路径下获取对应的包

```
? MobaXterm 20.2 ?
(SSH client, X-server and networking tools)

> SSH session to root@172.16.19.138
? SSH compression : ✓
? SSH-browser      : ✓
? X11-forwarding   : ✗ (disabled or not supported by server)
? DISPLAY          : 172.16.12.201:0.0

> For more info, ctrl+click on help or visit our website

Last login: Mon Apr 11 17:00:20 2022 from 172.16.12.108
[root@localhost ~]# ll
total 54104
-rw----- 1 root root      1509 Dec  7 10:45 anaconda-ks.cfg
drwxr-xr-x. 3 root root        73 Apr  7 16:27 lls_test
-rw-r--r-- 1 root root 14594772 Jan 14 04:35 node-v12.21.0-linux-x64.tar.xz
-rw-r--r-- 1 root root 21749332 Jan 14 05:05 node-v14.17.1-linux-x64.tar.xz
-rw-r--r-- 1 root root 17389636 Jan 14 06:35 Python-3.7.9.tar.xz
-rw-r--r-- 1 root root 1657454 Apr  8 11:15 VastEM-patch-2.8-x86_64.tar.gz
[root@localhost ~]# find / -name VastEM-installer-2.9-x86_64.tar.gz
/vastem/VastEM-installer-2.9-x86_64.tar.gz
[root@localhost ~]# cd /vastem/
[root@localhost vastem]# ll
total 1003108
drwxr-xr-x. 3 root root      27 Jan 14 05:23 auth
drwxr-xr-x. 3 root root      27 Jan 14 05:27 auth_frontend
drwxr-xr-x. 3 root root      21 Jan 14 03:34 backend
drwxr-xr-x. 3 root root      18 Mar 25 16:42 baseline
-rwxr-xr-x. 1 root root    7585 Mar 25 17:40 build.sh
drwxr-xr-x. 5 root root      51 Jan 15 00:45 collector
drwxr-xr-x. 3 root root      21 Jan 14 04:09 frontend
drwxr-xr-x. 8 root root     4096 Mar 21 15:57 vastem_2.8
drwxr-xr-x. 8 root root     4096 Mar 29 15:39 vastem_2.9
-rw-r--r-- 1 root root 513569540 Mar 22 09:20 VastEM-installer-2.8-x86_64.tar.gz
-rw-r--r-- 1 root root 513590645 Apr 11 08:59 VastEM-installer-2.9-x86_64.tar.gz
[root@localhost vastem]#
```

如果是 arm 的包，需要去 172.16.19.139 的/vastem 路径下获取对应的包

```
[root@localhost ~]# cd vastem/
[root@localhost vastem]# ll
total 878M
drwx----- 3 root root 4.0K Jan 20 15:55 auth
drwx----- 3 root root 4.0K Jan 20 15:55 auth_frontend
drwx----- 3 root root 4.0K Jan 19 15:31 backend
drwx----- 3 root root 4.0K Mar 25 17:40 baseline
-rwx----- 1 root root 7.7K Mar 18 16:41 build.sh
drwx----- 5 root root 4.0K Jan 20 14:29 collector
drwx----- 3 root root 4.0K Jan 19 15:39 frontend
drwx----- 8 root root 4.0K Mar 21 15:55 vastem_2.8
drwx----- 8 root root 4.0K Mar 29 11:35 vastem_2.9
-rw----- 1 root root 435M Mar 22 09:32 VastEM-installer-2.8-aarch64.tar.gz
-rw----- 1 root root 444M Apr 11 09:32 VastEM-installer-2.9-aarch64.tar.gz
[root@localhost vastem]# pwd
/vastem
[root@localhost vastem]#
```

7. 将包传到需要安装 VEM 的服务器上

如需要安装到 172.16.101.230 上，就把安装包 scp 传过去
scp -r VastEM-installer-2.9-x86_64.tar.gz 172.16.101.230:/
具体路径根据情况自己填

```
drwxr-xr-x. 8 root root      4096 Mar 29 15:39 vastem-2.9
-rw-r--r--. 1 root root 513605040 Mar 22 09:20 vastem-installer-2.9-x86_64.tar.gz
-rw-r--r--. 1 root root 513605040 Apr 11 08:59 vastem-installer-2.9-x86_64.tar.gz
[root@localhost vastem]# scp -r vastem-installer-2.9-x86_64.tar.gz 172.16.101.230:/
The authenticity of host '172.16.101.230 (172.16.101.230)' can't be established.
ECDSA key fingerprint is SHA256:1L2P4SPV35NjKATEPouZvekG4w0baiz/rghnVUVbss.
ECDSA key fingerprint is MD5:cb1b1f4de4e638a9320ee1516a:aa:ed:bb:64:89.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '172.16.101.230' (ECDSA) to the list of known hosts.
[root@172.16.101.230 ~]# password:
vastem-installer-2.9-x86_64.tar.gz
[root@localhost vastem]#
```

这里需要输入 172.16.101.230 机器的密码然后就开始传输了

8. 登录需要安装 VEM 的服务器，开始安装

```
? MobaXterm 20.2 ?
(SSH client, X-server and networking tools)

> SSH session to root@172.16.101.230
? SSH compression : ✓
? SSH-browser : ✓
? X11-forwarding : ✗ (disabled or not supported by server)
? DISPLAY : 172.16.12.201:0.0
> For more info, ctrl+click on help or visit our website

Last login: Mon Apr 11 14:38:34 2022 from 172.16.12.196
[root@localhost ~]# cd /
[root@localhost ~]# ll
total 501596
lrwxrwxrwx. 1 root root      7 Oct 22 16:08 bin -> usr/bin
dr-xr-xr-x. 5 root root    4096 Nov 18 13:04 boot
drwxr-xr-x. 6 root root     78 Nov  1 08:58 data
drwxr-xr-x. 9 root root    147 Mar 25 10:09 deployment
drwxr-xr-x. 20 root root   3140 Mar 24 14:59 dev
drwxr-xr-x. 81 root root   8192 Mar 16 10:15 etc
drwxr-xr-x. 4 root root    155 Mar  3 14:09 home
lrwxrwxrwx. 1 root root      7 Oct 22 16:08 lib -> usr/lib
lrwxrwxrwx. 1 root root      9 Oct 22 16:08 lib64 -> usr/lib64
drwxr-xr-x. 3 root root     24 Nov  1 08:58 logs
drwxr-xr-x. 2 root root      6 Apr 11 2018 media
drwxr-xr-x. 2 root root      6 Apr 11 2018 mnt
drwxr-xr-x. 3 root root   4096 Nov 22 10:42 nmom
drwxr-xr-x. 2 root root      6 Apr 11 2018 opt
dr-xr-xr-x. 344 root root    0 Mar 24 14:59 proc
drwxr-xr-x. 7 root root   4096 Apr  2 16:07 root
drwxr-xr-x. 25 root root    740 Mar 24 15:13 run
lrwxrwxrwx. 1 root root      8 Oct 22 16:08/sbin -> usr/sbin
drwxr-xr-x. 2 root root      6 Apr 11 2018 srv
dr-xr-xr-x. 13 root root    0 Mar 24 14:59 sys
drwxrwxrwt. 16 root root   4096 Apr 11 03:33 tmp
drwxr-xr-x. 15 root root    183 Nov  1 08:56 usr
drwxr-xr-x. 19 root root    267 Oct 22 16:12 var
-rw-r--r--. 1 root root 513605506 Apr 11 17:25 vastem-installer-2.9-x86_64.tar.gz
[root@localhost ~]#
```

登录到 172.16.101.230 就可以找到刚刚从 138 传过来的安装包，然后根据 VEM 安装手册来进行安装即可。

9. 如果是前端更新，构建 frontend 项目

如前端功能更新，需要点击这个项目，如下图所示

<div> <div>ATOPS-1.5</div> <div>ATOPS-trunk</div> <div>All</div> <div>AtlasEM</div> <div>AtlasEM-1.0</div> <div>AtlasEM-1.0-Test</div> <div>AtlasEM-Trunk</div> <div>OPPO-exSQL-trunk</div> <div>VastEM 2.8</div> <div>VastEM 2.9</div> <div>exbase_dbbrigde</div> <div></div> </div>						
S	W	Name	Last Success	Last Failure	Last Duration	
		VastEM-auth-2.9	17 days - #1	N/A	59 sec	
		VastEM-backend-2.9	17 days - #1	N/A	25 sec	
		VastEM-collector-2.9-aarch64	17 days - #1	N/A	1 min 6 sec	
		VastEM-collector-2.9-x86_64	16 days - #1	N/A	1 min 6 sec	
		VastEM-frontend-2.9	16 days - #1	N/A	41 sec	
		VastEM-installer-2.9-aarch64.tar.gz	8 hr 40 min - #43	N/A	4 min 6 sec	
		VastEM-installer-2.9-x86_64.tar.gz	55 min - #49	N/A	4 min 4 sec	

Icons: S M L

Legend Atom feed for all Atom feed for failures Atom feed for just latest builds

然后点击构建

Jenkins

VastEM 2.9

VastEM-frontend-2.9

Back to Dashboard

Status

Changes

Workspace

Build Now

Delete Project

Configure

Rename

Workspace

Recent Changes

Project VastEM-frontend-2.9

Permalinks

- [Last build \(#1\), 16 days ago](#)
- [Last stable build \(#1\), 16 days ago](#)
- [Last successful build \(#1\), 16 days ago](#)
- [Last completed build \(#1\), 16 days ago](#)

Build History

trend

find

#1

2022-3-25 下午5:59

Atom feed for all

Atom feed for failures

构建完成后，去/vastem/vastem_2.9 目录

找到 frontend 目录，进去然后执行 `tar -zcvf frontend.tar.gz *` 命令

```

[root@localhost fontend]# ll
total 6504
-rw-r--r--. 1 root root 826965 Apr 11 17:18 css.worker.js
-rw-r--r--. 1 root root 176386 Apr 11 17:18 css.worker.js.gz
-rw-r--r--. 1 root root 125958 Apr 11 17:18 editor.worker.js
-rw-r--r--. 1 root root 39429 Apr 11 17:18 editor.worker.js.gz
-rw-r--r--. 1 root root 4286 Apr 11 17:18 favicon.ico
-rw-r--r--. 1 root root 542595 Apr 11 17:18 html.worker.js
-rw-r--r--. 1 root root 134152 Apr 11 17:18 html.worker.js.gz
-rw-r--r--. 1 root root 12293 Apr 11 17:18 index.html
-rw-r--r--. 1 root root 2514 Apr 11 17:18 index.html.gz
-rw-r--r--. 1 root root 236146 Apr 11 17:18 json.worker.js
-rw-r--r--. 1 root root 66773 Apr 11 17:18 json.worker.js.gz
drwxr-xr-x. 5 root root 40 Apr 11 17:18 static
-rw-r--r--. 1 root root 3644877 Apr 11 17:18 ts.worker.js
-rw-r--r--. 1 root root 821761 Apr 11 17:18 ts.worker.js.gz
[root@localhost fontend]# pwd
/vastem/vastem_2.9/fontend
[root@localhost fontend]# tar -zcvf fontend.tar.gz *
css.worker.js
css.worker.js.gz
editor.worker.js
editor.worker.js.gz
favicon.ico
html.worker.js

```

生成 fontend.tar.gz 压缩包

```

[root@localhost fontend]# ll
total 21220
-rw-r--r--. 1 root root 826965 Apr 11 17:18 css.worker.js
-rw-r--r--. 1 root root 176386 Apr 11 17:18 css.worker.js.gz
-rw-r--r--. 1 root root 125958 Apr 11 17:18 editor.worker.js
-rw-r--r--. 1 root root 39429 Apr 11 17:18 editor.worker.js.gz
-rw-r--r--. 1 root root 4286 Apr 11 17:18 favicon.ico
-rw-r--r--. 1 root root 15068283 Apr 11 18:18 fontend.tar.gz
-rw-r--r--. 1 root root 542595 Apr 11 17:18 html.worker.js
-rw-r--r--. 1 root root 134152 Apr 11 17:18 html.worker.js.gz
-rw-r--r--. 1 root root 12293 Apr 11 17:18 index.html
-rw-r--r--. 1 root root 2514 Apr 11 17:18 index.html.gz
-rw-r--r--. 1 root root 236146 Apr 11 17:18 json.worker.js
-rw-r--r--. 1 root root 66773 Apr 11 17:18 json.worker.js.gz
drwxr-xr-x. 5 root root 40 Apr 11 17:18 static
-rw-r--r--. 1 root root 3644877 Apr 11 17:18 ts.worker.js
-rw-r--r--. 1 root root 821761 Apr 11 17:18 ts.worker.js.gz
[root@localhost fontend]#

```

然后将 fontend.tar.gz 包传到 172.16.101.230 上

```
scp -r fontend.tar.gz 172.16.101.230:/deployment/fontend
```

/deployment 为 VEM 安装路径，需要根据实际情况填写

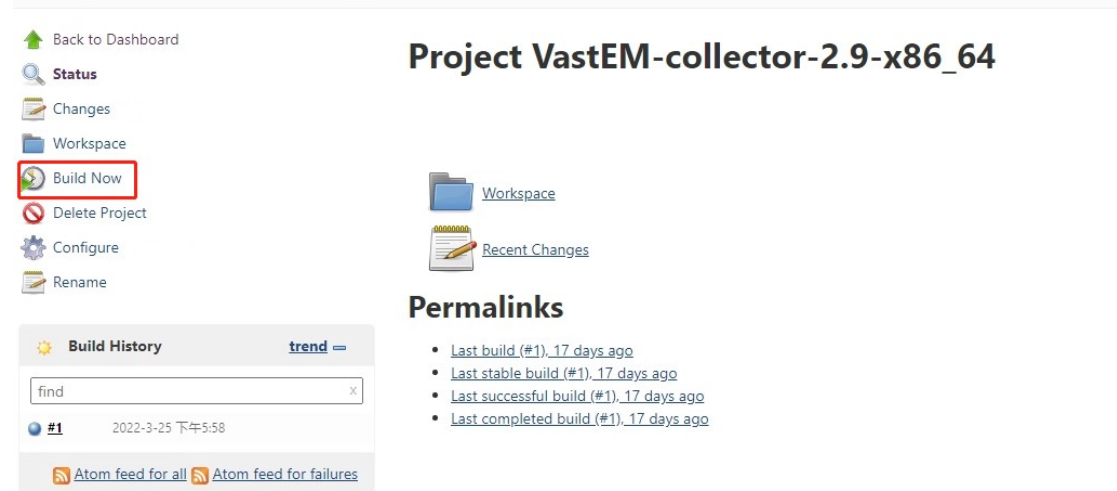
然后去 172.16.101.230 将 fontend.tar.gz 解压，执行 `tar -zxvf fontend.tar.gz` 命令解压到 fontend 目录下，替换原来的文件。

10.如果是更新采集器，构建 collector 项目



S	W	Name	Last Success	Last Failure	Last Duration
		VastEM-auth-2.9	17 days - #1	N/A	59 sec
		VastEM-backend-2.9	17 days - #1	N/A	25 sec
		VastEM-collector-2.9-aarch64	17 days - #1	N/A	1 min 6 sec
		VastEM-collector-2.9-x86_64	17 days - #1	N/A	1 min 6 sec
		VastEM-frontend-2.9	17 days - #1	N/A	41 sec
		VastEM-installer-2.9-aarch64.tar.gz	49 min - #44	N/A	3 min 53 sec
		VastEM-installer-2.9-x86_64.tar.gz	1 hr 21 min - #50	N/A	4 min 37 sec

进入项目后点击立即构建



Back to Dashboard

Status

Changes

Workspace

Build Now

Delete Project

Configure

Rename

Project VastEM-collector-2.9-x86_64

Workspace

Recent Changes

Permalinks

- [Last build \(#1\), 17 days ago](#)
- [Last stable build \(#1\), 17 days ago](#)
- [Last successful build \(#1\), 17 days ago](#)
- [Last completed build \(#1\), 17 days ago](#)

Build History

trend

find

#1 2022-3-25 下午5:58

Atom feed for all Atom feed for failures

构建完成后，到/vastem/vastem_2.9 目录


```

[root@localhost vastem_2.9]# ll
total 277364
-rw-r--r--. 1 root root 25116224 Mar 21 16:15 alertmanager.tar.gz
-rw-r--r--. 1 root root 901 Mar 21 16:14 atlasEm.conf
drwxr-xr-x. 2 root root 74 Mar 21 16:14 auth
-rw-r--r--. 1 root root 77126818 Apr 12 09:04 collector.tar.gz
-rwxr-xr-x. 1 root root 6338 Mar 21 16:15 control.sh
drwxr-xr-x. 3 root root 4096 Apr 12 09:02 fontend
-rwxr-xr-x. 1 root root 23414 Mar 29 11:35 init.sh
-rw-r--r--. 1 root root 79388076 Mar 21 16:15 instantclient.tar.gz
drwxr-xr-x. 2 root root 43 Mar 21 16:14 key
drwxr-xr-x. 3 root root 16 Mar 21 16:14 lib
-rw-r--r--. 1 root root 1015113 Mar 21 16:15 nginx.tar.gz
-rw-r--r--. 1 root root 9030048 Mar 21 16:15 node_exporter.tar.gz
-rw-r--r--. 1 root root 28311777 Mar 21 16:15 postgresql.tar.gz
-rw-r--r--. 1 root root 60140846 Mar 21 16:15 prometheus.tar.gz
-rw-r--r--. 1 root root 3724205 Mar 21 16:15 pushgateway.tar.gz
drwxr-xr-x. 2 root root 4096 Mar 29 15:40 sql
-rw-r--r--. 1 root root 107023 Mar 21 16:15 sql.tar.gz
drwxr-xr-x. 5 root root 265 Mar 21 16:14 target
[root@localhost vastem_2.9]# pwd
/vastem/vastem_2.9
[root@localhost vastem_2.9]#

```

将 collector.tar.gz 传到 172.16.101.230

```
scp -r collector.tar.gz 172.16.101.230:/deployment/agent
```

/deployment 为 VEM 安装路径，需要根据实际情况填写

到 agent 目录下，先将 atlasEM.conf 文件备份

```
cp app/etc/atlasEM.conf .
```

删掉 app 目录及其里面的文件


```
rm -rf app
```

然后去 172.16.101.230 将 collector.tar.gz 解压，执行 `tar -zxvf collector.tar.gz` 命令解压到 agent 目录下，然后将刚刚备份的文件粘到 app/etc/目录下 `cp atlasEm.conf app/etc/`

替换完后到 /deployment 目录下执行 `./control.sh restart collector` 重启服务即可。

/deployment 为 VEM 安装路径，需要根据实际情况填写

11.如果是更新后端，构建 backend 项目



S	W	Name	Last Success	Last Failure	Last Duration
		VastEM-auth-2.9	17 days - #1	N/A	59 sec
		VastEM-backend-2.9	17 days - #1	N/A	25 sec
		VastEM-collector-2.9-aarch64	17 days - #1	N/A	1 min 6 sec
		VastEM-collector-2.9-x86_64	17 days - #1	N/A	1 min 6 sec
		VastEM-frontend-2.9	17 days - #1	N/A	41 sec
		VastEM-installer-2.9-aarch64.tar.gz	1 hr 12 min - #44	N/A	3 min 53 sec
		VastEM-installer-2.9-x86_64.tar.gz	1 hr 45 min - #50	N/A	4 min 37 sec

进入项目后点击立即构建

构建完成后，到/vastem/vastem_2.9/target 目录

```
[root@localhost vastem_2.9]# cd target/
[root@localhost target]# ll
total 111816
-rw-r--r--. 1 root root    3275 Mar 21 16:14 application_properties
-rw-r--r--. 1 root root 110095530 Apr 12 09:02 atlasem.jar
-rwxr-xr-x. 1 root root    316 Mar 21 16:14 backup.sh
-rwxr-xr-x. 1 root root 628192 Mar 21 16:14 gs_dump
drwxr-xr-x. 5 root root   4096 Mar 21 16:14 gslib
-rwxr-xr-x. 1 root root 736072 Mar 21 16:14 gs_sql
-rwxr-xr-x. 1 root root 338792 Mar 21 16:14 gs_restore
-rwxr-xr-x. 1 root root 431624 Mar 21 16:14 pg_dump
drwxr-xr-x. 3 root root   4096 Mar 21 16:14 pglib
-rwxr-xr-x. 1 root root 192496 Mar 21 16:14 pg_restore
-rwxr-xr-x. 1 root root 449272 Mar 21 16:14 psql
-rwxr-xr-x. 1 root root   363 Mar 21 16:14 recovery.sh
-rwxr-xr-x. 1 root root 590848 Mar 21 16:14 vb_dump
drwxr-xr-x. 6 root root   8192 Mar 21 16:14 vblib
-rwxr-xr-x. 1 root root 318520 Mar 21 16:14 vb_restore
-rwxr-xr-x. 1 root root 664592 Mar 21 16:14 vsql
[root@localhost target]# pwd
/vastem/vastem_2.9/target
[root@localhost target]#
```

将 atlasem.jar 包传到 172.16.101.230

```
scp -r atlasem.jar 172.16.101.230:/deployment/target
```

/deployment 为 VEM 安装路径，需要根据实际情况填写

替换完后到 /deployment 目录下执行 ./control.sh restart atlasem 重启服务即可。

/deployment 为 VEM 安装路径，需要根据实际情况填写