

# Deploy Document -- ProcessMaker and PMT

ssyytt

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## Deploy Document -- ProcessMaker and PMT

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## 0. Pre

This cloud software is deployed in RHEL 7.4 environment, this document contains how to deploy a "instance", this instance contains a ProcessMaker and our PMT part together. The instance is deployed to AWS EC2, and one EC2 has one and only "instance".

This document will guide you how to deploy in action, with command and screen shot. But I won't explain the command in detail.

Assume you have already have a AWS account, assume you have use EC2 before, assume you have use .pem file (key) to SSH access the EC2 before. If not, try to implement the above process and then read this document.

---

## 1. Create EC2 instance

Login to the account to create a EC2 instance, choose EC2.

The screenshot shows the AWS Services Catalog interface. On the left, there's a sidebar with links like '历史记录' (History), '控制台主页' (Console Home), and 'EC2'. The main area is a grid of service categories with their sub-components:

- 计算**: EC2, Lightsail, Elastic Container Service, Lambda, Batch, Elastic Beanstalk.
- 开发人员工具**: CodeStar, CodeCommit, CodeBuild, CodeDeploy, CodePipeline, X-Ray.
- 分析**: Athena, EMR, CloudSearch, Elasticsearch Service, Kinesis, QuickSight, Data Pipeline, AWS Glue.
- 应用程序集成**: Step Functions, SWF, Simple Queue Service, Simple Notification Service, Amazon MQ.
- 存储**: S3, EFS, Glacier, Storage Gateway.
- 管理工具**: CloudWatch, CloudFormation, CloudTrail, Config, OpsWorks, Service Catalog, Trusted Advisor, Managed Services.
- 安全、身份与合规**: IAM, Cognito, Inspector, Amazon Macie, Certificate Manager, CloudHSM, Directory Service, WAF & Shield, Artifact.
- 客户参与**: Amazon Connect, Simple Email Service.
- 企业生产力**: Amazon Chime, WorkDocs, WorkMail.
- 数据库**: RDS, DynamoDB, ElastiCache, Amazon Redshift.
- 媒体服务**: Elastic Transcoder.
- 桌面和应用串流**: WorkSpaces, AppStream 2.0.

Click the button "Launch Instance".

The screenshot shows the AWS EC2 Dashboard. On the left, there's a sidebar with links for EC2 Dashboard, Events, Tags, Reports, Limits, Instances, Images, AMIs, ELASTIC BLOCK STORE, Volumes, Snapshots, NETWORK & SECURITY, Security Groups, Elastic IPs, Placement Groups, Key Pairs, and Network Interfaces. The main area has sections for Resources, Account Attributes, Create Instance, Service Health, and Scheduled Events.

**Resources**: You are using the following Amazon EC2 resources in the US West (Oregon) region:  
3 Running Instances, 0 Dedicated Hosts, 3 Volumes, 1 Key Pairs, 0 Placement Groups, 0 Elastic IPs, 0 Snapshots, 0 Load Balancers, 16 Security Groups.

**Create Instance**: A callout box says: "EC2 Spot. Save up to 90% off On-Demand Prices. Turbo Boost your Workloads. Get started with Amazon EC2 Spot Instances."

**Service Health**: Service Status: US West (Oregon): This service is operating normally. Availability Zone Status: No events.

**Scheduled Events**: US West (Oregon): No events.

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In the step 1, Select the "Red Hat Enterprise Linux 7.4 (HVM), SSD Volume Type" as the image in the EC2 instance.

**Step 1: Choose an Amazon Machine Image (AMI)**

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

Quick Start				
<a href="#">My AMIs</a> <a href="#">AWS Marketplace</a> <a href="#">Community AMIs</a> <input type="checkbox"/> <a href="#">Free tier only</a>		<b>Amazon Linux AMI 2017.09.1 (HVM), SSD Volume Type - ami-bf4193c7</b>  The Amazon Linux AMI is an EBS-backed, AWS-supported image. The default image includes AWS command line tools, Python, Ruby, Perl, and Java. The repositories include Docker, PHP, MySQL, PostgreSQL, and other packages. Root device type: ebs Virtualization type: hvm ENA Enabled: Yes <a href="#">Select</a> <b>Red Hat Enterprise Linux 7.4 (HVM), SSD Volume Type - ami-9fa343e7</b>  Red Hat Enterprise Linux version 7.4 (HVM), EBS General Purpose (SSD) Volume Type Root device type: ebs Virtualization type: hvm ENA Enabled: Yes <a href="#">Select</a> <b>SUSE Linux Enterprise Server 12 SP3 (HVM), SSD Volume Type - ami-e3ef329b</b>  SUSE Linux Enterprise Server 12 Service Pack 3 (HVM), EBS General Purpose (SSD) Volume Type. Public Cloud, Advanced Systems Management, Web and Scripting, and Legacy modules enabled. Root device type: ebs Virtualization type: hvm ENA Enabled: Yes <a href="#">Select</a> <b>Ubuntu Server 16.04 LTS (HVM), SSD Volume Type - ami-0def3275</b>  Ubuntu Server 16.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Contains available from Canonical		
		< < 1 to 35 of 35 AMIs > >		

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In the type 2, Choose the default instance type, and then click button "Next: Configure Instance Details".

**Step 2: Choose an Instance Type**  
Currently selected: t2.micro (variable ECUs, 1 vCPU, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	General purpose	t2.micro <small>Free tier eligible</small>	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.xlarge	4	16	EBS only	-	Moderate	Yes
<input type="checkbox"/>	General purpose	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
<input type="checkbox"/>	General purpose	m5.large	2	8	EBS only	Yes	Up to 10 Gigabit	Yes
<input type="checkbox"/>	General purpose	m5.xlarge	4	16	EBS only	Yes	Up to 10 Gigabit	Yes

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Configure Instance Details](#)

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In the step 3 Configure Instance Details page, configure nothing, directly click button "Next: Add Storage".

**Step 3: Configure Instance Details**

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances	<input type="text" value="1"/>	Launch into Auto Scaling Group
Purchasing option	<input type="checkbox"/> Request Spot instances	
Network	vpc-87621ee0 (default)	<input type="button" value="Create new VPC"/>
Subnet	No preference (default subnet in any Availability Zone)	<input type="button" value="Create new subnet"/>
Auto-assign Public IP	<input type="checkbox"/> Use subnet setting (Enable)	
IAM role	None	
Shutdown behavior	Stop	
Enable termination protection	<input type="checkbox"/> Protect against accidental termination	
Monitoring	<input type="checkbox"/> Enable CloudWatch detailed monitoring <small>Additional charges apply.</small>	
Tenancy	Shared - Run a shared hardware instance	

Additional charges will apply for dedicated tenancy.

**Buttons:** Cancel, Previous, **Review and Launch**, Next: Add Storage

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In the step 4 add storage page, configure nothing, directly click button "Next: Add tag".

**Step 4: Add Storage**

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encrypted
Root	/dev/sda1	snap-0d48b4ad8efd3bbb4	<input type="text" value="10"/>	General Purpose SSD (GP2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

**Add New Volume**

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

**Buttons:** Cancel, Previous, **Review and Launch**, Next: Add Tags

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In the step 5 add tags, configure nothing, directly click button "Next: Configure Security Group".

**Step 5: Add Tags**

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver.

A copy of a tag can be applied to volumes, instances or both.

Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

Key	(127 characters maximum)	Value	(255 characters maximum)
This resource currently has no tags			

Choose the Add tag button or [click to add a Name tag](#).  
Make sure your [IAM policy](#) includes permissions to create tags.

Add Tag (Up to 50 tags maximum)

Cancel Previous Review and Launch Next: Configure Security Group

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In the step 5 Configure Security Group, the init type is "SSH", as shown below, you need to configure 80 and 8080

**Step 6: Configure Security Group**

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group:  Create a new security group  
 Select an existing security group

Security group name: launch-wizard-16

Description: launch-wizard-16 created 2017-11-28T20:47:20.337-08:00

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop

Add Rule

**Warning**  
Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Cancel Previous Review and Launch

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The configuration of port 80 and 8080 is as shown below, after adding two types, click button "Review and Launch".

**Step 6: Configure Security Group**

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group:  Create a new security group  
 Select an existing security group

Security group name: launch-wizard-16  
Description: launch-wizard-16 created 2017-11-28T20:47:20.337-08:00

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop
Custom TCP	TCP	8080	Custom 0.0.0.0/0, ::/0	e.g. SSH for Admin Desktop
HTTP	TCP	80	Custom 0.0.0.0/0, ::/0	e.g. SSH for Admin Desktop

[Add Rule](#)

**Warning**  
Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

[Cancel](#) [Previous](#) [Review and Launch](#)

**In step 7, click button "Launch"**

**Step 7: Review Instance Launch**

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

**AMI Details** [Edit AMI](#)

**Red Hat Enterprise Linux 7.4 (HVM), SSD Volume Type - ami-9fa343e7**  
Free tier eligible Red Hat Enterprise Linux version 7.4 (HVM), EBS General Purpose (SSD) Volume Type  
Root Device Type: ebs Virtualization type: hvm

**Instance Type** [Edit instance type](#)

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.micro	Variable	1	1	EBS only	-	Low to Moderate

**Security Groups** [Edit security groups](#)

Security group name: launch-wizard-16

[Cancel](#) [Previous](#) [Launch](#)

As you have a key before (if you have experience with EC2), choose a key pair, in the Screen Shot, I choose "syt123450", and click "Launch Instances", wait for a short time for instance to init.

**Step 7: Review Instance Launch**

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

**AMI Details**

- Red Hat Enterprise Linux 7.4**
- Free tier eligible**
- Red Hat Enterprise Linux version 7
- Root Device Type: ebs Virtualization:

**Instance Type**

Instance Type	ECUs
t2.micro	Variable

**Security Groups**

Security group name: launch-wizard-16

**Select an existing key pair or create a new key pair**

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

Choose an existing key pair  
Select a key pair  
syt123450

I acknowledge that I have access to the selected private key file (syt123450.pem), and that without this file, I won't be able to log into my instance.

**Cancel** **Launch Instances**

**Edit AMI** **Edit instance type** **Network Performance** **Low to Moderate** **Edit security groups**

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Execute the following command to the server. to prepare for the deploy. (replace my pem with yours and use your own EC2 IP)

sudo -i

```
ss@sytdemacbook-pro ~> ssh -i ~/Downloads/syt123450.pem ec2-user@34.215.25.74
The authenticity of host '34.215.25.74 (34.215.25.74)' can't be established.
ECDSA key fingerprint is SHA256:/5i44IqduUZusIvd5M1vEaY6iicQyaKH9wPsQvdJ49U.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '34.215.25.74' (ECDSA) to the list of known hosts.
[ec2-user@ip-172-31-24-137 ~]$ sudo -i
[root@ip-172-31-24-137 ~]#
```

## 2. Configure Environment

After you create a instance, click the configure the environment for later use.

### 2.1 Java

yum install java-1.8.0-openjdk.x86\_64

```
[root@ip-172-31-24-137 ~]# yum install java-1.8.0-openjdk.x86_64
Loaded plugins: amazon-id, rhui-lb, search-disabled-repos
rhui-REGION-client-config-server-7 | 2.9 kB 00:00
rhui-REGION-rhel-server-releases | 3.5 kB 00:00
rhui-REGION-rhel-server-rh-common | 3.8 kB 00:00
Resolving Dependencies
--> Running transaction check
--> Package java-1.8.0-openjdk.x86_64 1:1.8.0.151-1.b12.el7_4 will be installed
--> Processing Dependency: java-1.8.0-openjdk-headless(x86-64) = 1:1.8.0.151-1.b12.el7_4 for package: 1:java-1.8.0-openjdk-1.8.0.151-1.b12.el7_4.x86_64
--> Processing Dependency: fontconfig(x86-64) for package: 1:java-1.8.0-openjdk-1.8.0.151-1.b12.el7_4.x86_64
--> Processing Dependency: libasound.so.2(ALSA_0.9)(64bit) for package: 1:java-1.8.0-openjdk-1.8.0.151-1.b12.el7_4.x86_64
--> Processing Dependency: libasound.so.2(ALSA_0.9.0rc4)(64bit) for package: 1:java-1.8.0-openjdk-1.8.0.151-1.b12.el7_4.x86_64
--> Processing Dependency: libjava.so(SUNWprivate_1.1)(64bit) for package: 1:java-1.8.0-openjdk-1.8.0.151-1.b12.el7_4.x86_64
```

input y to continue

libXrender	x86_64 0.9.10-1.el7	rhui-REGION-rhel-server-releases	26 k
libXtst	x86_64 1.2.3-1.el7	rhui-REGION-rhel-server-releases	20 k
libfontenc	x86_64 1.1.3-3.el7	rhui-REGION-rhel-server-releases	31 k
libjpeg-turbo	x86_64 1.2.90-5.el7	rhui-REGION-rhel-server-releases	134 k
libpng	x86_64 2:1.5.13-7.el7_2		
		rhui-REGION-rhel-server-releases	213 k
libxcb	x86_64 1.12-1.el7	rhui-REGION-rhel-server-releases	211 k
lksctp-tools	x86_64 1.0.17-2.el7	rhui-REGION-rhel-server-releases	88 k
python-javapackages	noarch 3.4.1-11.el7	rhui-REGION-rhel-server-releases	31 k
stix-fonts	noarch 1.1.0-5.el7	rhui-REGION-rhel-server-releases	1.3 M
ttmkfdir	x86_64 3.0.9-42.el7	rhui-REGION-rhel-server-releases	48 k
tzdata-java	noarch 2017c-1.el7	rhui-REGION-rhel-server-releases	183 k
xorg-x11-font-utils	x86_64 1:7.5-20.el7	rhui-REGION-rhel-server-releases	87 k
xorg-x11-fonts-Type1	noarch 7.5-9.el7	rhui-REGION-rhel-server-releases	521 k

Transaction Summary

---

Install 1 Package (+29 Dependent packages)

Total download size: 37 M

Installed size: 115 M

Is this ok [y/d/N]: y

success install

## Install 1 Package

Total download size: 552 k

Installed size: 914 k

Is this ok [y/d/N]: y

## Downloading packages:

screen-4.1.0-0.23.20120314git3c2946.el7\_2.x86\_64.rpm | 552 kB 00:00

## Running transaction check

## Running transaction test

Transaction test succeeded

## Running transaction

## Installing : screen

Verifying : screen-4.1.0-0.23.20120314git3c2946.el7\_2.x86\_64 1/1

### **INSTEAD:**

Screen.x86\_64 0.4.1.0-0.25.20120514git5c2940.el7\_2

Complete!  
Exact@in

[root@192-172-31-24-137 ~]#

## 2.2 Screen

yum install screen

```
[root@ip-172-31-24-137 ~]# yum install screen
Loaded plugins: amazon-id, rhui-lb, search-disabled-repos
Resolving Dependencies
--> Running transaction check
--> Package screen.x86_64 0:4.1.0-0.23.20120314git3c2946.el7_2 will be installed
--> Finished Dependency Resolution
```

## Dependencies Resolved

## Package

## Arch Version

## Repository

## Size

## Installing:

screen x86\_64 4.1.0-0.23.20120314git3c2946.el7\_2

input y to continue

```
Dependencies Resolved
```

Package	Arch	Version	Repository	Size
Installing:				
screen	x86_64	4.1.0-0.23.20120314git3c2946.el7_2	rhui-REGION-rhel-server-releases	552 k

```
Transaction Summary
```

Install 1 Package
Total download size: 552 k
Installed size: 914 k
Is this ok [y/d/N]: y

success install

```
Install 1 Package
```

```
Total download size: 552 k
Installed size: 914 k
Is this ok [y/d/N]: y
Downloading packages:
screen-4.1.0-0.23.20120314git3c2946.el7_2.x86_64.rpm | 552 kB 00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
    Installing : screen-4.1.0-0.23.20120314git3c2946.el7_2.x86_64 1/1
    Verifying  : screen-4.1.0-0.23.20120314git3c2946.el7_2.x86_64 1/1
```

Installed:

```
screen.x86_64 0:4.1.0-0.23.20120314git3c2946.el7_2
```

Complete!

```
[root@ip-172-31-24-137 ~]#
```

### 3. Deploy ProcessMaker

go to the next link to download linux processmaker to your local

<https://bitnami.com/stack/processmaker/installer>

scp to server, replace my pem with your own, and use your own EC2 IP

```
[sytdemacbook: ~] $ ssh ss
ss@sytdemacBook-Pro: ~ > scp -i ~/Downloads/syt123450.pem ~/desktop/bitnami-processmakercommunity-3.2.1-2-linux-x64-installer.run ec2-user@34.215.25.74:/tmp
```

cd /tmp

```
[root@ip-172-31-24-137 ~]# cd /tmp
```

Execute two command below

```
[root@ip-172-31-24-137 tmp]# chmod +x ./bitnami-processmakercommunity-3.2.1-2-linux-x64-installer.run
[root@ip-172-31-24-137 tmp]# ./bitnami-processmakercommunity-3.2.1-2-linux-x64-installer.run
```

input y to start

```
[root@ip-172-31-24-137 tmp]# chmod +x ./bitnami-processmakercommunity-3.2.1-2-linux-x64-installer.run
[root@ip-172-31-24-137 tmp]# ./bitnami-processmakercommunity-3.2.1-2-linux-x64-installer.run
Bitnami Stack for ProcessMaker Community requires at least 1000MB of memory and
the installer has detected 990MB of memory. This may prevent the application from
installing, working properly or cause it to stop functioning due to lack of memory.
Visit the following link to learn how to increase the swap space.
```

<https://bitnami.com/lowmemory>

```
Continue with installation? [Y/n]: Y
```

input y

```
ProcessMaker : Y (Cannot be edited)
```

```
PhpMyAdmin [Y/n] :Y
```

input y

```
Is the selection above correct? [Y/n]: Y
```

copy the default folder

```
-----  
Installation folder
```

```
Please, choose a folder to install Bitnami Stack for ProcessMaker Community
```

```
Select a folder [/opt/processmaker-3.2.1-2]: /opt/processmaker-3.2.1-2
```

input your name

```
-----  
Create Admin account
```

```
Bitnami Stack for ProcessMaker Community admin user creation
```

```
Your real name [User Name]: syt123450
```

input your email

```
-----  
Create Admin account
```

```
Bitnami Stack for ProcessMaker Community admin user creation
```

```
Your real name [User Name]: syt123450
```

```
Email Address [user@example.com]: syt123450@gmail.com
```

select the 80 port

```
-----  
Web Server Port
```

```
Choose a port that is not currently in use, such as port 80.
```

```
Apache Web Server Port [80]: 80
```

```
-----  
Web Server Port
```

```
Choose a port that is not currently in use, such as port 443.
```

```
SSL Port [443]: 443
```

select 443, do not configure mail

Web Server Port

Choose a port that is not currently in use, such as port 443.

SSL Port [443]: 443

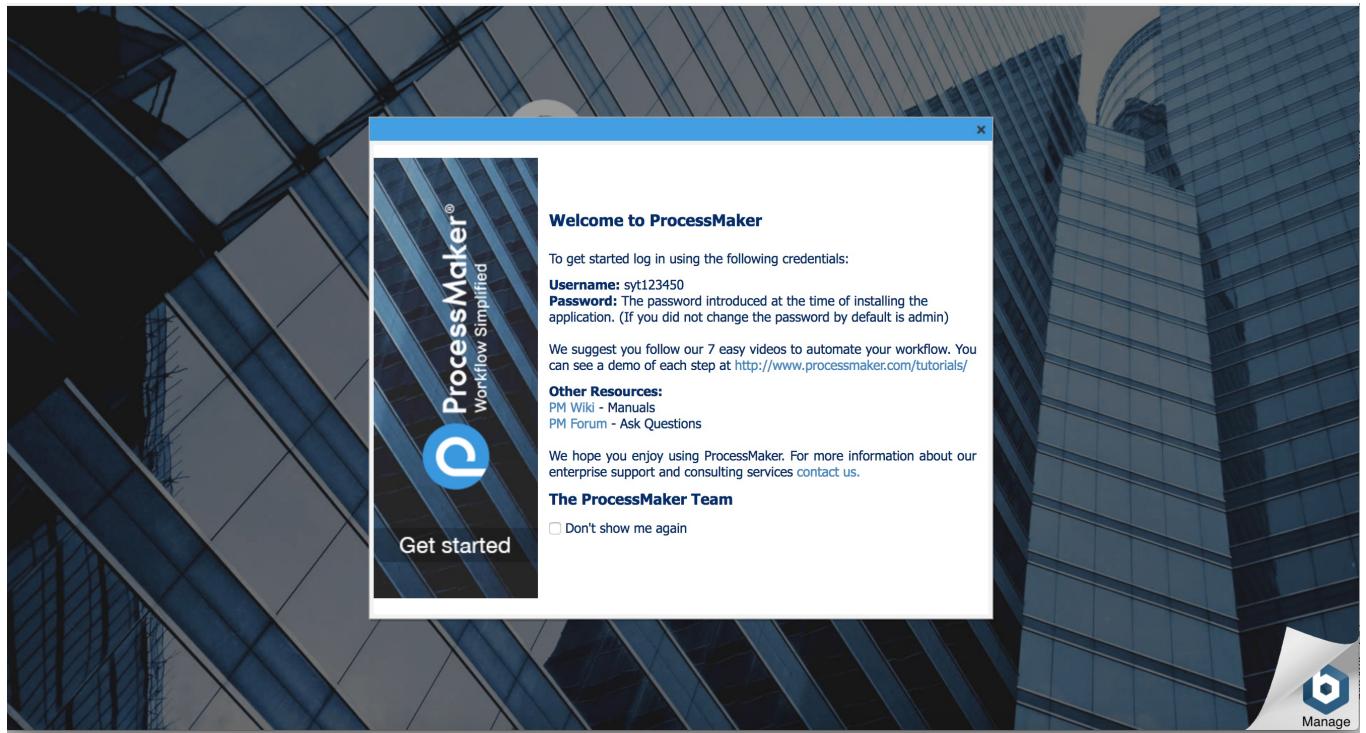
Do you want to configure mail support? [y/N]: n

Y to complete

Setup has finished installing Bitnami Stack for ProcessMaker Community on your computer.

Launch Bitnami Stack for ProcessMaker Community [Y/n]: y

input your EC2 IP in browser, you will see the page if successfully deployed



## 4. Deploy PMT

clone the github and use maven to package the source to get jar file, and upload to server

```
ss@sytdeMacBook-Pro ~> scp -i ~/Downloads/syt123450.pem ~/desktop/pmt-0.0.1-SNAPSHOT.jar ec2-user@34.215.25.74:/tmp
pmt-0.0.1-SNAPSHOT.jar                                         100%   18MB   8.8MB/s   00:02
ss@sytdeMacBook-Pro ~>
```

screen

```
[root@ip-172-31-24-137 tmp]# screen
```

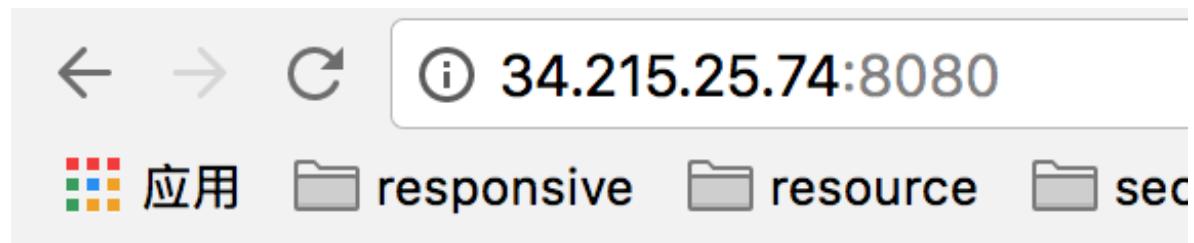
java -jar to start

```
[root@ip-172-31-24-137 tmp]# ls
bitnami-processmakercommunity-3.2.1-2-linux-x64-installer.run
bitrock_installer.log
hsperfdata_root
pmt-0.0.1-SNAPSHOT.jar
systemd-private-f6b92fe1f0ab44fab0ae1344f5b65fc2-chronyd.service-1tVLcI
[root@ip-172-31-24-137 tmp]# java -jar pmt-0.0.1-SNAPSHOT.jar
```

if success will show next info, "control + A + D" to exit

```
2017-11-30 22:02:44.419  INFO 25527 --- [           main] o.s.w.s.handler.SimpleUrlHandlerMapping : Mapped URL path [/webjars/**] onto handler of type [class org.springframework.web.servlet.resource.ResourceHttpRequestHandler]
2017-11-30 22:02:44.419  INFO 25527 --- [           main] o.s.w.s.handler.SimpleUrlHandlerMapping : Mapped URL path [/**] onto handler of type [class org.springframework.web.servlet.resource.ResourceHttpRequestHandler]
2017-11-30 22:02:44.508  INFO 25527 --- [           main] o.s.w.s.handler.SimpleUrlHandlerMapping : Mapped URL path [/**/favicon.ico] onto handler of type [class org.springframework.web.servlet.resource.ResourceHttpRequestHandler]
2017-11-30 22:02:44.794  INFO 25527 --- [           main] o.s.j.e.a.AnnotationMBeanExporter      : Registering beans for JMX exposure on startup
2017-11-30 22:02:45.022  INFO 25527 --- [           main] s.b.c.e.t.TomcatEmbeddedServletContainer : Tomcat started on port(s): 8080 (http)
2017-11-30 22:02:45.043  INFO 25527 --- [           main] com.pmttemplate.PmtApplication        : Started PmtApplication in 7.584 seconds (JVM running for 8.853)
```

you can input your EC2 ip:8080 in browser, if successfully deploy, you will see hello world



# Hello World!