

## Prerequisites before Running SSDG Installer

1. IP address of all the servers where the Installation of SSDG components needs to be done should be known in advance.
2. All server machines should be on same network before installation and able to ping each other.
3. Mail server should be configured for SSDG Website Component as the values of mail.smtp.host and mail.from must be known before SSDG Website installation.
4. You must have your certificate in keystore before messaging module installation with your subject common name. Please refer to PKIConfigurationfor SSDG document uploaded on <http://nsdg.cdacmumbai.in/administration/>
5. IP addresses of the servers(both SSDG Messaging and SSDG Website) will be required at time of SSDG Database Module installation.
6. Please make sure preinstallor requirements JDK and PostgreSQL is installed and running before SSDG Installation on all the servers. While installing SSDG Messaging, SSDG Monitoring, SSDG Database component postgresql should be up and running.
7. Postgresql server 8.3 's bin directory path must be "/usr/bin".
8. Postgresql server 8.3 's data directory path must be "/var/lib/pgsql/data"
9. Database servers should on cluster and virtual IP should be assigned , that virtual IP will be used to point SSDG Database Server. Hence while entering SSDG Messaging components and SSDG Website Components, whenever the prompts ask for Database IP, this virtual IP should be entered.
10. SSDG Database Module must be installed first.
11. Entry of # IPv4 local connections in pg\_hba.conf

( in data directory of Postgresql server)  
must be "trust" .

Example

```
host all all 127.0.0.1/32 trust
```

Installer will make it md5 .

Example

```
host all all 127.0.0.1/32 md5
```

12. One can check using command `:/etc/init.d/postgresql status |start | stop| reload`  
**Please note that for starting and stopping postgresql service use the script present in etc/init.d folder**
13. For starting jboss for SSDG Messaging and Website/Directory Component one can use the script present in folder run : **etc/init.d/jboss start | stop.**
14. Changing the memory used by the JBoss Application Server  
Change in **run.conf** file of the directory: /usr/nsdgmessaging/jboss-5.1.0.GA/bin.  
The following is example for setting the memory for 4 GB.**if [ "x\$JAVA\_OPTS" = "x" ]; then JAVA\_OPTS="-Xms4096m -Xmx4096m -Dsun.rmi.dgc.client.gcInterval=3600000 -Dsun.rmi.dgc.server.gcInterval=3600000"** fi Garbage Collection Interval can also be set here.
15. After Installing SSDG Website/Directory Component, If you have trouble viewing of captcha, Goto **usr/nsdgweb/jboss4.2.3GA/bin/run.conf** Set **JAVA\_OPTS** as shown given below :  
`JAVA_OPTS="-Xms128m -Xmx512m -Dsun.rmi.dgc.client.gcInterval=3600000 -Dsun.rmi.dgc.server.gcInterval=3600000 -Djava.awt.headless=true"`
16. If you encounter any problem in configuring SSL in PostgreSQL then only follow the steps given below :

- i. `openssl req -new -text -out server.req`
- ii. `openssl rsa -in privkey.pem -out server.key`

- iii. `rm privkey.pem`
- iv. `openssl req -x509 -in server.req -text -key server.key -out server.crt`
- v. `chmod og-rwx server.key`
- vi. copy all the above files in dir `pgsql/data`
- vii. The files created should have same ownership as the files which are already present in folder .i.e. change ownership + access mode to postgres user.
- viii. Restart database.

Database connection for ds-xml file

`nsdg_msg`-min 200,max 350 connection per server on GatewayMessaging

`nsdg_msg`-.min 50,max 50 connection on GatewayResendMessaging

`nsdg_gsd`-min 20,max 80 connection per GatewayMessaging server

Jboss JVM size

min 4gb,max 6gb

### Modify the following values in config para table:

**GatewayResendMessaging.ip:** IP of the machine where GatewayResendMessaging.ear part 2 of SSDG Messaging Solution will be deployed.

**GatewayAccessURI :** IP of the machine where SSDG Messaging Solution Part 1 GatewayMessaging.ear is deployed

**GatewayID :** One will get this ID after NSD registers the GatewayAccessURI

**SenderID:** value will be same as that of GatewayID.

**NSDServiceURL:** public URI of NSD

### Contents of config para table:

#### Alias\_name

`gateway.logging.filename`

`gateway.messaging.datasourcename`

`gateway.messaging.queueName`

`gateway.messaging.resend.firstAttempt`

`gateway.messaging.resend.fourthAttempt`

`gateway.messaging.resend.secondAttempt`

`gateway.messaging.resend.thirdAttempt`

#### **GatewayAccessURI**

`gatewayid`

#### **GatewayResendMessaging.ip**

`initialDurationtimer`

`intervalDurationtimer`

`java.naming.factory.initial`

`java.naming.factory.url.pkgs`

`javax.net.ssl.keyStore`

#### Nsdg

`/var/appconf/nsdgmessaging/log4j.xml`

PostgresDS

`queue/nsdgQueue`

15

960

120

240

**`http://192.168.0.37:8080/gateway/services/NSDGServ`**

**`73D46768AA8048D7AE8F743396E368F5`**

**`192.168.0.149:1099`**

1000

5000

`org.jnp.interfaces.NamingContextFactory`

`org.jboss.naming:org.jnp.interfaces`

`/usr/nsdgmessaging/jboss-5.1.0.GA/server/messaging/ns`

javax.net.ssl.keyStorePassword

javax.net.ssl.trustStore

javax.net.ssl.trustStorePassword

KeystorePassword

KeystorePath

KeystorePath\_Web

**NSDServiceURL**

Password

purgeinterval

reportingemail

**SenderID**

TrustchainAlias\_name

TrustchainKeystorePassword

TrustchainKeystorePath

Once the keystore and truststore are obtained, the above fields highlighted in blue should be changed.

Welcome123

/usr/nsdgmessaging/jboss-

5.1.0.GA/server/messaging/nsdg.keystore/NSD.truststor

prayag

Welcome123

/usr/nsdgmessaging/jboss-5.1.0.GA/server/messaging/ns

/usr/nsdgweb/jboss-4.2.3.GA/server/default/conf/nsdg.k

**http://10.24.220.11:8080/Directory/services/NSDServi**

[B@1176e5c

1 (days)

The one which is entered during ssdg directory installati

**73D46768AA8048D7AE8F743396E368F8**

lal singhs safescrypt limited id

prayag

/usr/nsdgmessaging/jboss-

5.1.0.GA/server/messaging/nsdg.keystore/NSD.truststor