## **Explore the BOSH VM folder structure**

Let's take a look at the structure of the BOSH VM:

1. SSH to any BOSH VM with:

bosh -d greeter-release ssh --gw-host REPLACE\_WITH\_BOSH\_IP --gw-user vcap --gw-private-key ~/deployment/bosh.pem app/0

1. Make yourself root:

sudo su

1. Navigate to the root BOSH directory (/var/vcap) and explore its contents.
2. View all the installed jobs:

cd /var/vcap/jobs/

1. Select some job and explore its contents.
2. View all the installed packages:

cd /var/vcap/packages

1. Select some package and explore its contents.
2. View the Monit files:

cd /var/vcap/monit

1. Also view Monit status with:

monit status

1. View the logs

cd /var/vcap/sys/log

## **Connect to the Director database**

1. SSH to a BOSH instance:

cd ~/deployment/  
ssh -i bosh.pem vcap@{{source ~/deployment/vars && echo $eip}}

1. Make yourself root:

echo 'c1ouc0w' | sudo su

1. The password is c1oudc0w.
2. Install the PostgreSQL client:

sudo apt-get update  
sudo apt-get install -y postgresql-client

1. View the BOSH settings file (/var/vcap/bosh/settings/json) and find information about the DB.
2. Connect to the BOSH database:

psql -h 127.0.0.1 -p 5432 bosh postgres

1. List all tables:

\d

1. Use the following command to exit the table list.

\q

1. View the contents of the releases table:

SELECT \* FROM releases;

1. Use \q to exit the client.

## **View NATS traffic**

1. SSH to a BOSH instance:

cd ~/deployment/  
ssh -i bosh.pem vcap@{{source ~/deployment/vars && echo $eip}}

1. Make yourself root:

echo "c1oudc0w" | sudo su

1. The password is c1oudc0w.
2. View the BOSH Director config to find out what the NATS connection string is:

vi /var/vcap/jobs/director/config/director.yml

1. Use :q to exit *vim*.
2. Use the nats-sub command from the nats package to subscribe to NATS:

export PATH=/var/vcap/packages/ruby/bin:$PATH  
export BUNDLE\_GEMFILE=/var/vcap/packages/nats/Gemfile   
bundle exec nats-sub '>' -s 'nats://nats:nats-password@127.0.0.1:4222'

1. Filter output^ subscribe only on messages that Director sends to agents:

bundle exec nats-sub 'agent.>' -s 'nats://nats:nats-password@127.0.0.1:4222'

1. Use bosh vms in another window to make Director send some messages to agents.