

# PCI 2.2 CIS controls for MongoDB on Pulp boxes

## 1.1 Ensure the appropriate MongoDB software version/patches are installed (Scored)

```
> db.version()  
3.4.16
```

## 2.1 Ensure that authentication is enabled for MongoDB databases (Scored)

```
[rohan.ds@pulp-2 ~]$ sudo cat /etc/mongod.conf | grep -i auth  
auth=true
```

## 3.1 Ensure that role-based access control is enabled and configured appropriately (Scored)

```
[rohan.ds@pulp-2 ~]$ mongo pulp_database -u pulpadmin -p
MongoDB shell version v3.4.16
Enter password:
connecting to: mongodb://127.0.0.1:27017/pulp_database
MongoDB server version: 3.4.16
> db.getUser("pulpadmin")
{
  "_id" : "pulp_database.pulpadmin",
  "user" : "pulpadmin",
  "db" : "pulp_database",
  "customData" : {
    "createdBy" : "Puppet Mongoddb_user['User pulpadmin on db
pulp_database']"
  },
  "roles" : [
    {
      "role" : "dbAdmin",
      "db" : "pulp_database"
    },
    {
      "role" : "readWrite",
      "db" : "pulp_database"
    }
  ]
}
```

### 3.2 Ensure that MongoDB only listens for network connections on authorized interfaces (Scored)

```
[rohan.ds@pulp-2 ~]$ sudo cat /etc/mongod.conf | grep "bind_ip"
bind_ip = 127.0.0.1

[rohan.ds@pulp-2 ~]$ sudo netstat -atnp | grep `sudo ps aux | grep -i
mongod | grep -v grep | awk {'print $2'} ` | awk {'print $4'} | uniq
127.0.0.1:27017
```

### 3.3 Ensure that MongoDB is run using a non-privileged, dedicated service account (Scored)

```
[rohan.ds@pulp-2 ~]$ sudo ps aux | grep mongod | grep -v grep
mongod    26159  1.1  1.1 3370760 45428 ?        Ssl  10:50   1:32 /usr/bin
/mongod -f /etc/mongod.conf
```

## 6.1 Ensure that the HTTP status interface is disabled (Scored)

```
[rohan.ds@pulp-2 ~]$ cat /etc/mongod.conf | grep -i "nohttpinterface"
[rohan.ds@pulp-2 ~]$
[rohan.ds@pulp-2 ~]$ sudo netstat -atnp | grep 28017
[rohan.ds@pulp-2 ~]$
```

## 7.2 Ensure that database file permissions are set correctly (Scored)

```
[rohan.ds@pulp-2 ~]$ cat /etc/mongod.conf | grep -i dbpath
dbpath=/var/lib/mongod
[rohan.ds@pulp-2 ~]$ sudo ls -l /var/lib/mongod
total 1163300
-rw----- 1 mongod mongod 67108864 Jul 24 09:55 admin.0
-rw----- 1 mongod mongod 16777216 Feb 16 13:34 admin.ns
drwxr-xr-x 2 mongod mongod 4096 Jul 30 13:14 diagnostic.data
drwxr-xr-x 2 mongod mongod 4096 Jul 30 10:51 journal
-rw----- 1 mongod mongod 67108864 Jul 30 10:50 local.0
-rw----- 1 mongod mongod 16777216 Jul 30 10:50 local.ns
-rwxr-xr-x 1 mongod mongod 6 Jul 30 10:50 mongod.lock
-rw----- 1 mongod mongod 67108864 Jul 30 13:14 pulp_database.0
-rw----- 1 mongod mongod 134217728 Jul 30 13:04 pulp_database.1
-rw----- 1 mongod mongod 268435456 Jul 30 13:05 pulp_database.2
-rw----- 1 mongod mongod 536870912 Jul 30 13:05 pulp_database.3
-rw----- 1 mongod mongod 16777216 Jul 30 13:05 pulp_database.ns
-rw-r--r-- 1 mongod mongod 69 Feb 13 09:21 storage.bson
```