# Overview

This document logs the step-by-step operations while setting up MongoDB on CentOS

NOTE:

1. The version deployed on the current instances may not be up-to-date. Use the following tutorial may install a newer version, which, in the worst case, leads to version incompatibility with the other COTS or scripts. Please refer to the version # in the “Overview of the current infrastructure” and try to install the specified version.
2. Please refer to the “Dependencies” in the “Overview of the current infrastructure” to check any prerequisite for installation.

# Installation

1. Modify yum repo

**sudo vi /etc/yum.repos.d/mongodb-org.repo**

Add the following:

**[mongodb-org-3.4]**

**name=MongoDB Repository**

**baseurl=https://repo.mongodb.org/yum/redhat/$releasever/mongodb-org/3.4/x86\_64/**

**gpgcheck=1**

**enabled=1**

**gpgkey=https://www.mongodb.org/static/pgp/server-3.4.asc**

1. Install MongoDB

**sudo yum install mongodb-org**

1. For security concern, change the port from 27017 to 27617

**sudo vi /etc/mongod.conf**

Search for keyword “port”

change port from 27017 to 27617

1. Reload configuration file

**sudo systemctl reload mongod**

1. Connect to mongodb terminal

**mongo --port 27617**

1. Add an admin user

**use admin**

**db.createUser(**

**{**

**user: "myAdmin",**

**pwd: "HuaweiUSC2016",**

**roles: "roles" : [ { "role" : "root", "db" : "admin" }, { "role" : "dbOwner", "db" : "admin" }, { "role" : "dbAdminAnyDatabase", "db" : "admin" }, { "role" : "userAdminAnyDatabase", "db" : "admin" }, { "role" : "readWriteAnyDatabase", "db" : "admin" } ]**

**}**

**)**

**exit**

1. Enable authorization

**sudo vi /etc/mongod.conf**

Uncomment security tag and enable authorization

**security:**

**authorization: enabled**

1. Restart MongoDB

**sudo systemctl restart mongod**

1. After above settings, mongodb can be connected through the following command:

**mongo --port 27617 -u myAdmin -p HuaweiUSC2016 --authenticationDatabase admin**

# Data/Script Deployment

1. Connect to MongoDB terminal

**mongo --port 27617 -u myAdmin -p HuaweiUSC2016 --authenticationDatabase admin**

1. Create db and user for system prototype

**use ExpertSys**

**db.createUser( { user: "expertSys",**

**pwd: "USCHuawei2016",**

**roles: [ "readWrite" ] },**

**{ w: "majority" , wtimeout: 5000 } )**

**exit**

1. The ExpertSys db should accessible via the following command:

**mongo --port 27617 -u expertSys -p USCHuawei2016 --authenticationDatabase ExpertSys**