

# September 2018

Welcome to the September 2018 edition of DataStax Developer's Notebook (DDN). This month we answer the following question(s);

My company is investigating using DataStax for our new Customer/360 system in our customer call center. I'm a developer, and do not know how to administer DataStax Enterprise, but, I need to know how to backup and restore tables for my programming and unit tests. Can you help ?

*Excellent question ! DataStax Enterprise (DSE) cab be backed up and restored using DataStax Operations Center (DSE Ops Center), including activities to block stores like Amazon S3, other. You can also perform sstabledump(s), and table unloads and loads, including bulk unloads and loads.*

*But, as you seek to perform these activities as part of your unit tests, we are going to detail table backup and restore using snapshots; faster, less code, easily automated.*

## Software versions

The primary DataStax software component used in this edition of DDN is DataStax Enterprise (DSE), currently release 6.0.2. All of the steps outlined below can be run on one laptop with 16 GB of RAM, or if you prefer, run these steps on Amazon Web Services (AWS), Microsoft Azure, or similar, to allow yourself a bit more resource.

For isolation and (simplicity), we develop and test all systems inside virtual machines using a hypervisor (Oracle Virtual Box, VMWare Fusion version 8.5, or similar). The guest operating system we use is CentOS version 7.0, 64 bit.