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# Supplement to Orchestration Server Deployment Guide

Configuring FIPS for ORS on Linux

# Configuring FIPS for ORS on Linux

With the newer OpenSSL 3.x that comes supported with ORS 8.1.401.13+, in addition to setting the option **scxml\fips-enabled**, additional configuration steps are necessary to enable FIPS.

To enable FIPS, follow these steps:

1. Run the `fipsinstall.sh` script provided in the ORS installation folder.  
This script runs the FIPS module self-test and generates proper OpenSSL configuration files **openssl.cnf** and **fipsmodule.cnf** that are mandatory for FIPS mode.
2. Set the following environment variables as `fipsinstall.sh` suggests:
  - LD\_LIBRARY\_PATH to **<ORS install directory>/fips** and **<ORS install directory>/lib64** directory
  - OPENSSL\_MODULES to **<ORS install directory>/fips** directory
  - OPENSSL\_CONF to **<ORS install directory>/openssl.cnf** file

## Important

- If ORS is started by Local Control Agent (LCA), ensure that the above environment variables are set for the session/account from which ORS is starting.
- The procedure for enabling FIPS mode is similar to the procedure for Genesys Security Pack, but it is important to have LD\_LIBRARY\_PATH to point to **<ORS install directory>/fips** instead of the folder of Genesys Security Pack.
- When configuring ORS for a secure connection, like TLS, in non-FIPS mode, ensure that:
  - ORS option `scxml\fips-enabled` is set to `false`
  - None of the OPENSSL\_MODULES and OPENSSL\_CONF environment variables are defined
  - LD\_LIBRARY\_PATH includes the Genesys Security Pack folder instead of **<ORS install directory>/fips**