



SAND2020-0431PE

PA Cluster access through SRNGATE



Seth King

December 10, 2019

DRAFT - DO NOT CITE OR DISTRIBUTE



Sandia National Laboratories is a multimission laboratory managed and operated by National Technology & Engineering Solutions of Sandia, LLC, a wholly owned subsidiary of Honeywell International Inc., for the U.S. Department of Energy's National Nuclear Security Administration under contract DE-NA0003525. This research is funded by WIPP programs administered by the Office of Environmental Management (EM) of the U.S. Department of Energy.

Main Sandia PA Cluster

The head node for the PA computing cluster is: **santana.sandia.gov**

Santana is a Oracle Sun server running SunOS 5.11

Some codes are ran directly on the head node, some codes are distributed to other nodes by the run control scripts that are launched on the head node (Using Oracle Grid Engine).

Remote connections must go through **srngate.sandia.gov**, then ssh into **santana.sandia.gov**

Srngate will only give terminal access to the cluster, no file transfer or Xwindow tunneling is available.

- Any simple ssh program will work to connect to srngate

jt.sandia.gov is the PA linux test server

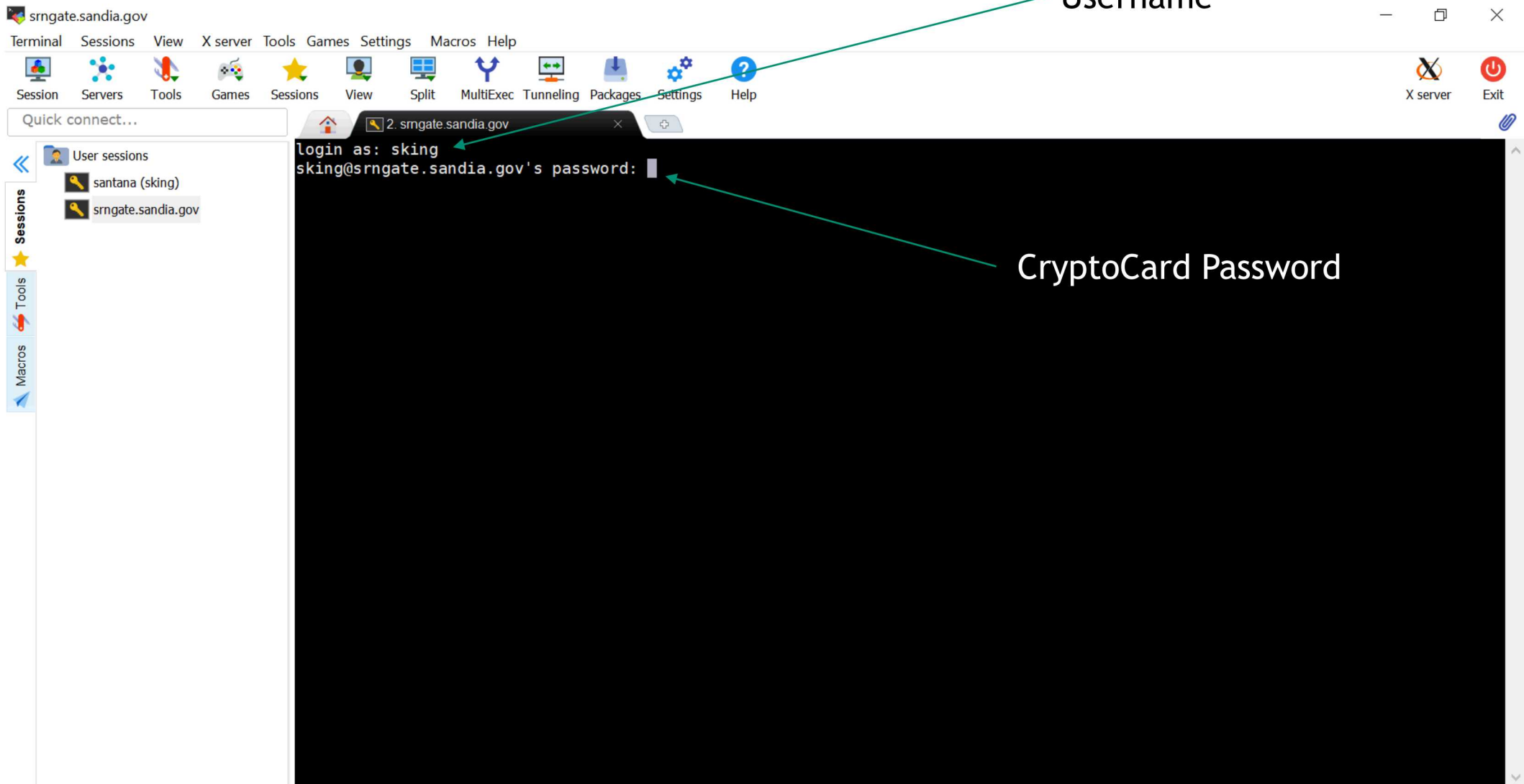
Jt is a linux server running CentOS 7.

The Santana home area is mapped to /home1 on Jt.

Solaris has limited python support, so when more advanced python capabilities (numpy, pandas, MySQLdb, etc.) are needed Jt can be utilized.

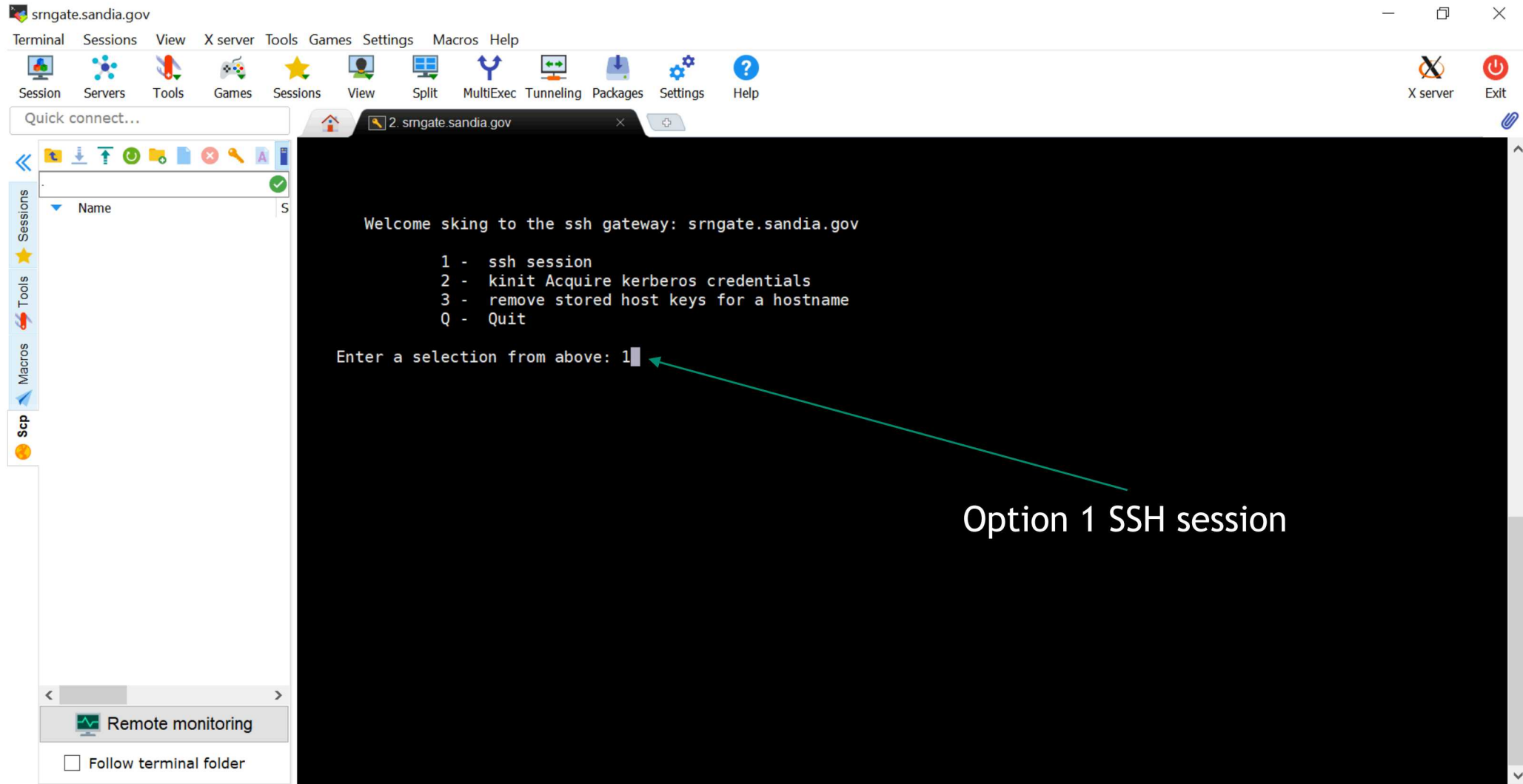
bto.sandia.gov is the database server.

Srngate connection



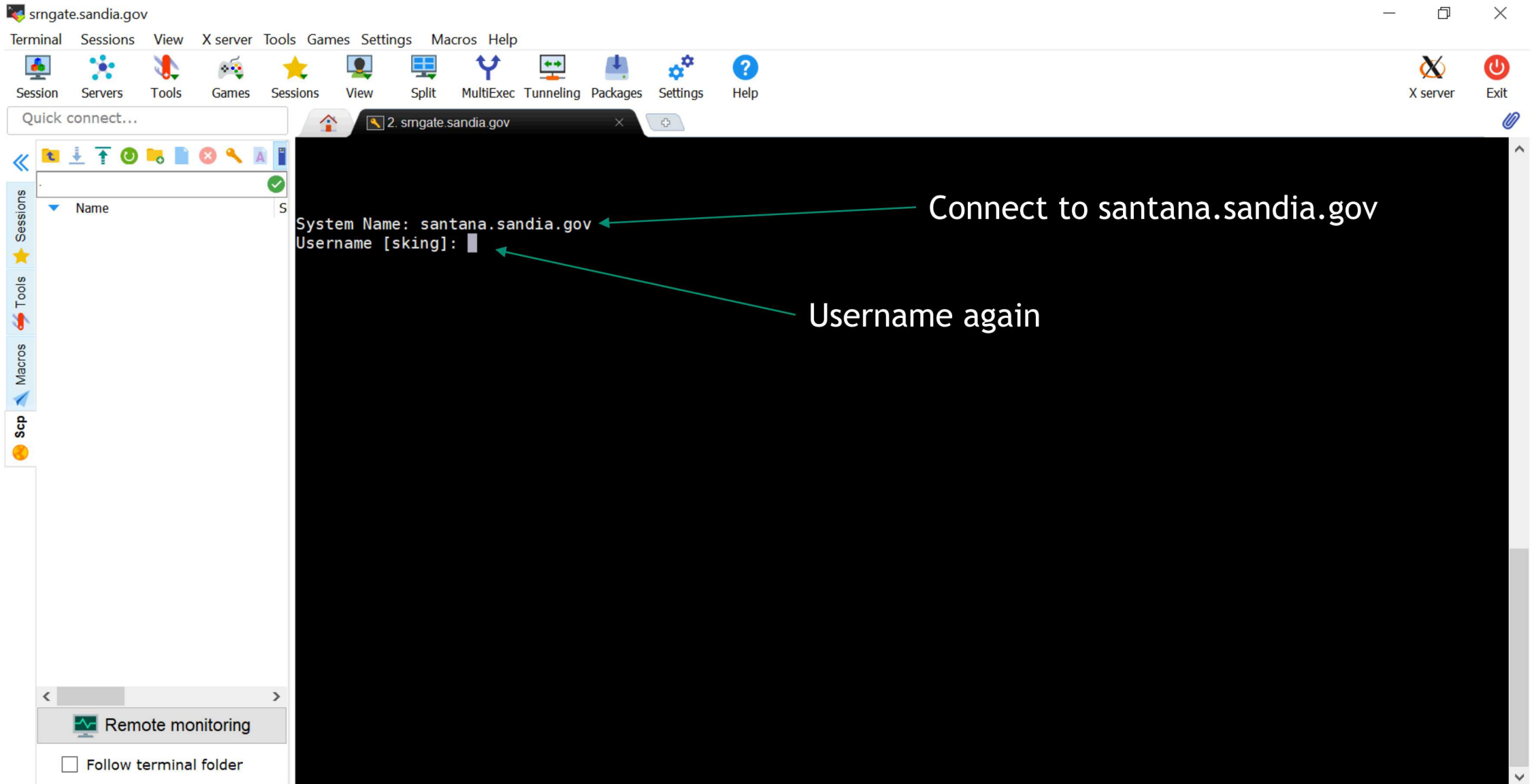
UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>

Srngate connection



UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>

Srngate connection



UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>

DRAFT - DO NOT CITE OR DISTRIBUTE

Srngate Connection

srngate.sandia.gov

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect...

2. srngate.sandia.gov

System Name: santana.sandia.gov
Username [sking]:

Legal Notice Reminder - SF 2902-NTU (5-2017)

WARNING NOTICE TO USERS: SNL Systems Are Monitored

This Sandia National Laboratories (SNL) information system is monitored. It is the property of the U.S. Government and is for authorized uses only.

----- Be aware you have no privacy on these systems. -----

All users of this system and all information on this system are subject to interception, monitoring, recording, copying, auditing, and inspection at the discretion of National Technology and Engineering Solutions of Sandia, LLC (NTESS), and disclosure to NTESS and third parties, including, but not limited to, the United States Government, any authorized investigative and law enforcement personnel, and officials of other entities, both domestic and foreign. By using or accessing this system, you consent to and permit all of the above without limit as to when such action may be undertaken.

Unauthorized or improper use of this SNL system may result in disciplinary, administrative, civil, and/or criminal penalties.

Password:

Remote monitoring

☐ Follow terminal folder

Kerberos Password