DIGITAL NONSENSE

Character-cell User Interface Menu
for the UNIX/Linux Operating Systems

```
                        Operations Menu
testuser1                                        server name
Test User 1                          Friday - 16 August 2019


        1.                      11.
        2.                      12.
        3.                      13.
        4.                      14.
        5.                      15.
        6.                      16.
        7.                      17.
        8.                      18.
        9.                      19.
       10.                      20.


        R. Refresh
        E. Exit

Select Menu Option:
```
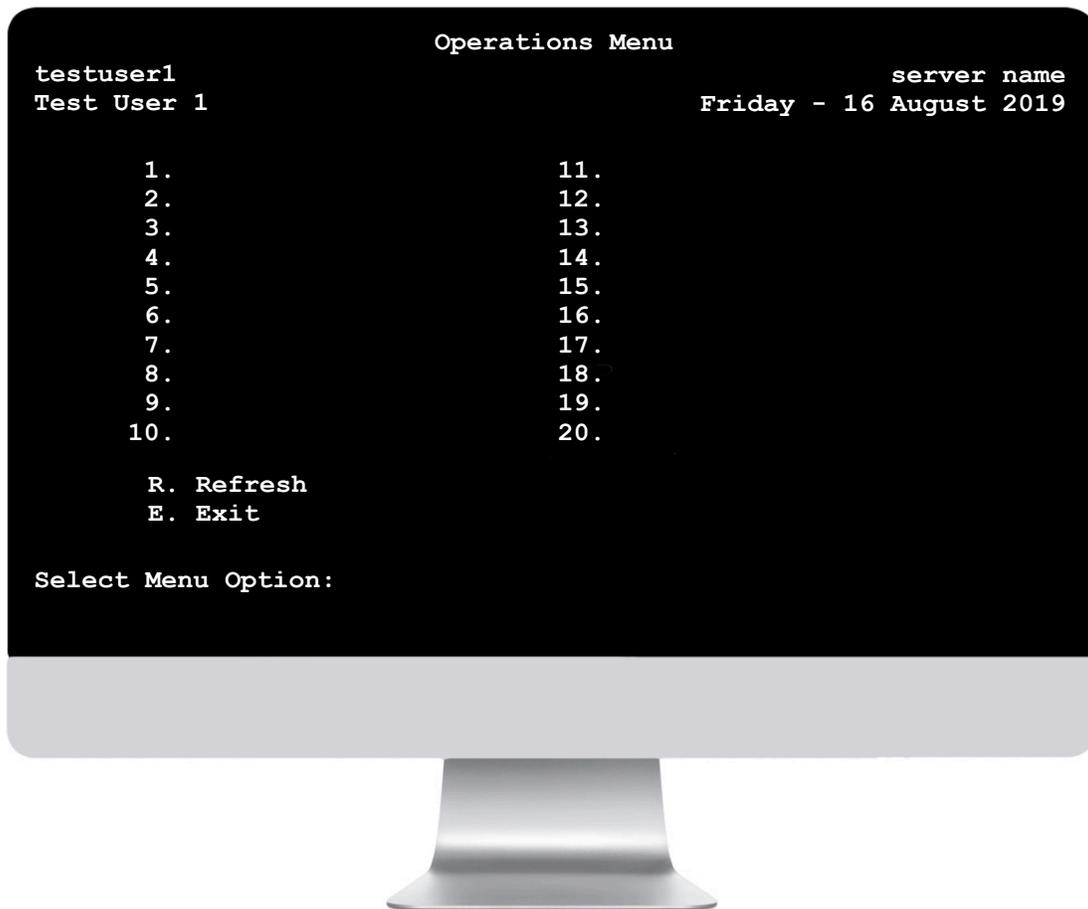
The Character-cell User Interface Menu (OpsMenu) is a set of shell scripts that provide a framework for a secure user interface. The menu can be used to provide a secure environment for daily operational functions and limit command line access for your staff.

Individual user accounts are created for all users that require access to the UNIX Operations Menus. A basic non-privileged user account setup is used.

Group membership is used to determine access to the various menu options. Each user is assigned to an 'Access Group'. The Access Groups determine which menu options a user has access to. Access Groups are numbered from 1 to n. Members of higher numbered Access Groups automatically have access to lower numbered access group functions.

Each menu option is assigned to an access group. When a user selects a menu option the code checks the user's group membership and compares it to the group assigned to the menu option. If the user's group is equal to or higher than the menu option's assigned group then access is granted. If the menu option's assigned group is higher than the user's then access is denied.

Menu sessions are logged for each user.

Installation

The OpsMenu files can be installed into any file system.

By default the scripts are setup to run in /opt/OpsMenu. If you choose to install in a different location, then the MenuPath & LogFile variables will need to be modified to indicate the correct path.

The following directory tree is created:
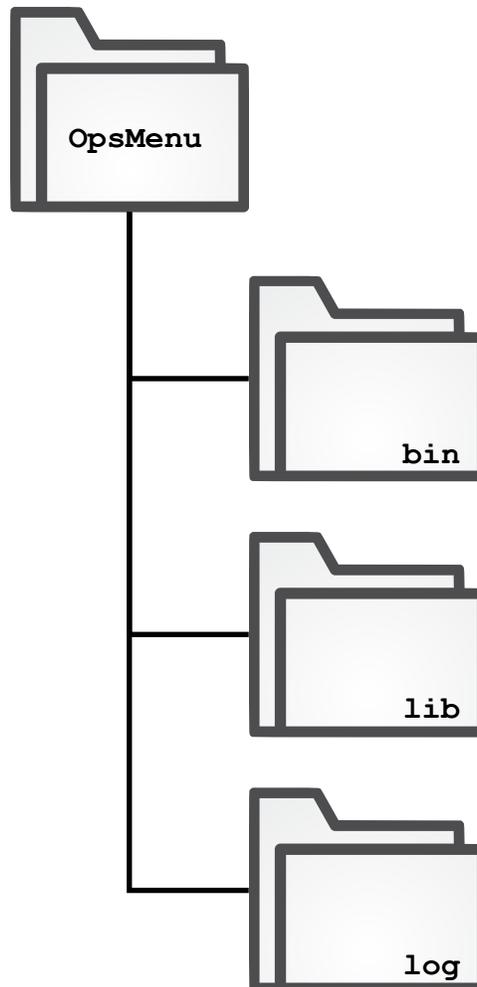
Access Groups

At least one access group needs to be created. You can create as many access groups as necessary.

Default group names: `menuACL_01`
                                     `menuACL_02`
                                     `menuACL_03`

User Accounts

Each user account needs to be assigned to one access group.

The following lines need to be added to each user's .profile to restrict command line access:

```
trap 'continue' 2 3 6 18
/opt/OpsMenu/bin/setMenuEnvironment.ksh
/opt/OpsMenu/bin/Menu_Operations.ksh
logout
```