# Using xdisk

**Overview**

These instructions are for use on Ocelote. The newer version is more simplified, has greater capacity and some commands were changed to be more intuitive.

xdisk is a locally written utility for users to request a temporary storage allocation. Users can use the xdisk utility to create, delete, resize, and expire (renew) xdisk allocations.

xdisk allocations can be created in size from a minimum of 200GB to 1TB (1000GB).

xdisk allocations can be renewed once to extend the time period. xdisk expiration warnings will be sent to users at their netid@email.arizona.edu address beginning one week before the expiration. It is the user's responsibility to renew xdisk allocations or copy files to an alternate storage location prior to xdisk expiration.

xdisk space is not backed up. It is the user's responsibility to save files stored in xdisk to alternate storage locations for backup and archive purposes.

## Display xdisk Help

```bash
$ xdisk -c help
***************************************************************
USAGE on login2:
xdisk -c create [-h hostname] [-m GB] [-d days]
xdisk -c delete -h hostname
xdisk -c expire [-h hostname] -d days
xdisk -c resize [-h hostname] -m GB
xdisk -c cancel -h hostname
xdisk -c query [-h hostname]
xdisk -c help
NOTE: Commands given in parenthesis are optional, in which case you will get system defaults
```

## View Current Information

```bash
$ xdisk -c query
XDISK on host: gs1x-40g.oce1ote.hpc.arizona.edu
Current XDISK allocation for mbruck:
Disk Location: /xdisk/mbruck
Allocated size: 196
Expiration date: 08/12/2016        Creation Date: 06/28/2016
Max days: 45                 Max size: 1000 GB
```

## Create an xdisk
$ xdisk -c create -m 300
Your create request of 300 GB for 45 days was successful.
Your space is in /xdisk/mbruck

$ xdisk -c create -d 30
Your create request of 200 GB for 30 days was successful.
Your space is in /xdisk/mbruck

Extend the xdisk Time

$ xdisk -c expire -d 15
Your extension of 15 days was successfully processed

Resize an xdisk Allocation

$ xdisk -c create -m 600 -d 50
Your create request of 600 GB for 50 days was successful.

$ xdisk -c create -m -200
Your resize to 400 GB was successfully processed

$ xdisk -c create -m 50
Your resize to 250 GB was successfully processed

Delete an xdisk Allocation

$ xdisk -c delete
Your delete request has been processed