

z/OS 2.4 IBM Education Assistant (IEA)

Solution (Epic) Name: zFS to zFS Migration

Element(s)/Component(s): z/OS UNIX System Services



Agenda

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Trademarks

- See url <http://www.ibm.com/legal/copytrade.shtml> for a list of trademarks.
- Additional Trademarks:
 - None.

Session Objectives

- Discuss enhancements to the BPXWMIGF command.
 - Now supports specifying a zFS file system as the source of the migration.
 - You can have multiple zFS file systems in mirror complete state.

Overview

- Who (Audience)
 - z/OS UNIX administrators
- What (Solution)
 - BPXWMIGF now supports a zFS source file system.
 - Multiple zFS source file systems can be in mirror complete state.
- Wow (Benefit / Value, Need Addressed)
 - You can allocate and use a new zFS file system dataset without disruptions.
 - Allows you to move from one volume to another.
 - Allows you to make the file system bigger.
 - Allows you to change the key label of an encrypted file system.

Usage & Invocation

- Uses the same existing BPXWMIGF command.
- A zFS file system is allowed to be specified with the `–source` option.
- Once a zFS to zFS migration has reached the mirror complete state, you can use BPXWMIGF to initiate another migration.
 - You must wait until the migration has reached the mirror complete state before starting another migration.
 - HFS to zFS migration is still limited to one at a time.

Usage & Invocation

```
bpxwmigf -source omvs1.zfs
```

```
OMVS1.ZFS
```

```
status.....: mirror complete at 21:30:02 02/22/2019 GMT
```

```
started.....: 21:30:02 02/22/2019 GMT
```

```
user.....: WELLIE0
```

```
target name..: OMVS2.ZFS
```

```
source rename: no
```

```
rename target: no
```

```
mount mode...: same
```

```
mount parms..:
```

```
auto-swap....: no
```

Usage & Invocation

```
bpxwmigf -source omvs3.zfs -target omvs4.zfs
OMVS3.ZFS
  status.....: mirroring 99% complete
  started.....: 21:35:22 02/22/2019 GMT
  user.....: WELLIE0
  target name..: OMVS4.ZFS
  source rename: no
  rename target: no
  mount mode...: same
  mount parms..:
  auto-swap....: no
  priority.....: 2
```


Usage & Invocation

```
bpxwmigf -query
OMVS1.ZFS
  status.....: mirror complete at 21:30:02 02/22/2019 GMT
  started.....: 21:30:02 02/22/2019 GMT
  user.....: WELLIE0
  target name..: OMVS2.ZFS
  source rename: no
  rename target: no
  mount mode...: same
  mount parms..:
  auto-swap....: no

OMVS3.ZFS
  status.....: mirror complete at 21:35:22 02/22/2019 GMT
  started.....: 21:35:22 02/22/2019 GMT
  user.....: WELLIE0
  target name..: OMVS4.ZFS
  source rename: no
  rename target: no
  mount mode...: same
  mount parms..:
  auto-swap....: no
```

Usage & Invocation

```
bpxwmigf -source omvs1.zfs -swap  
OMVS1.ZFS  
  status.....: mirror complete at 21:30:02 02/22/2019 GMT  
  started.....: 21:30:02 02/22/2019 GMT  
  user.....: WELLIE0  
  target name..: OMVS2.ZFS  
  source rename: no  
  rename target: no  
  mount mode...: same  
  mount parms..  
  auto-swap....: yes
```

Usage & Invocation

```
bpxwmigf -query
OMVS1.ZFS
  status.....: completed at 21:37:48 02/22/2019 GMT
  started.....: 21:30:02 02/22/2019 GMT
  user.....: WELLIE0
  target name..: OMVS2.ZFS
  source rename: no
  rename target: no
  mount mode...: same
  mount parms..:

OMVS3.ZFS
  status.....: mirror complete at 21:35:22 02/22/2019 GMT
  started.....: 21:35:22 02/22/2019 GMT
  user.....: WELLIE0
  target name..: OMVS4.ZFS
  source rename: no
  rename target: no
  mount mode...: same
  mount parms..:
  auto-swap....: no
```

Migration & Coexistence Considerations

- N/A

Interactions & Dependencies

- To exploit this item, all systems in the Plex must be at the new z/OS level: Yes
- Software Dependencies
 - N/A
- Hardware Dependencies
 - N/A
- Exploiters
 - N/A

Installation

- N/A

Session Summary

- BPXWMIGF now supports a zFS source.
- You can have multiple migrations in mirror complete state.

Appendix

- See z/OS UNIX System Services Command Reference for more information on the bpxwmigf command.