

Pivotal®

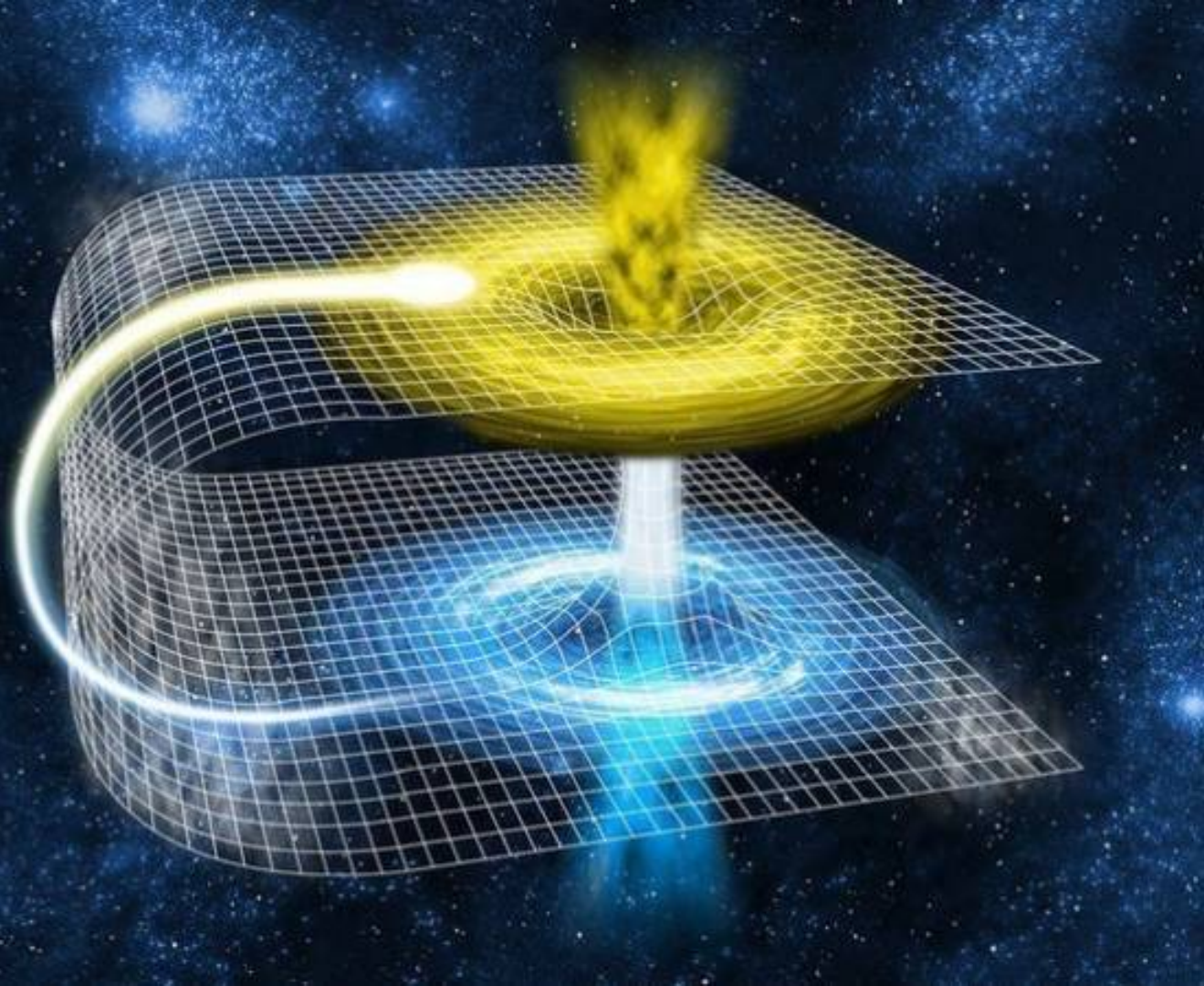
# PCF – Backup / Restore

Ravi Gadhia, Field Engineering, Pivotal  
@ravigadhia



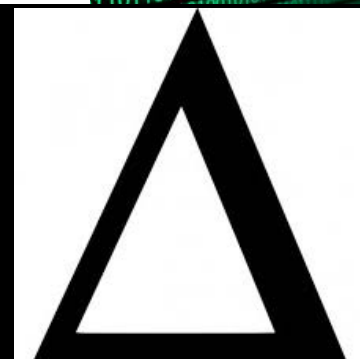
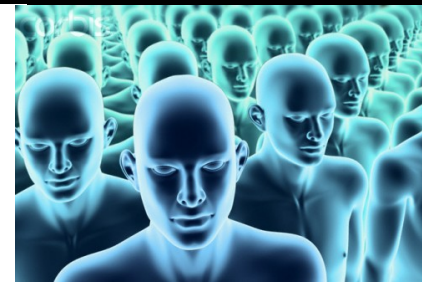
# Why care?

## Time Travel



# B/R as we know it...

- Use Cases
  - Disaster Recovery
  - Version Rollback
  - Relocation / Cloning
- Possible Targets
  - Data – system vs app
  - Configuration Settings
- Data Types
  - Logical vs Binary
- Methods
  - Full / Partial / Incremental



# PCF Backup / Restore Today

- Use Cases
  - Disaster Recovery
  - Version Rollback
  - Relocation / Cloning
- Possible Targets
  - Data – system vs app
  - Configuration Settings
- Data Types
  - Logical vs Binary
- Methods
  - Full / Partial / Incremental





# Back Up Steps

- Record the Cloud Controller DB Encryption Credentials
- Export Installation Settings
- Download the BOSH Deployment Manifest
- Back Up Critical Backend Components
  - Stop Cloud Controller
  - Back Up the Cloud Controller Database
  - Back Up the UAA Database
  - Back Up the Apps Manager Database
  - Back Up NFS Server
  - Back Up Pivotal MySQL Server
  - Start Cloud Controller

<http://docs.pivotal.io/pivotalcf/customizing/backup-restore/backup-pcf.html>



# Restore Steps

- Import Installation Settings (export first)
- Download the BOSH Deployment Manifest
- Restoring Critical Backend Components
  - Stop Cloud Controller
  - Restore the Cloud Controller Database
  - Restore the Apps Manager Database
  - Restore UAA Database
  - Restore NFS
  - Restore MySQL Database
  - Start Cloud Controller



# cfops

```
$ ./cfops backup
```

```
$ ./cfops restore
```



# cfops backup

```
$ ./cfops help backup
```

## NAME:

```
backup - backup --opsmanagerhost <host> --adminuser <usr> --adminpass <pass> --opsmanageruser <opsuser> --opsmanagerpass <ompass>
```

## USAGE:

```
command backup [command options] [arguments...]
```

## DESCRIPTION:

```
backup a Cloud Foundry deployment, including Ops Manager configuration, databases, and blob store
```

## OPTIONS:

```
--tilelist, --tl          a csv list of the tiles you would like to run the operation on [CFOPS_TILE_LIST]
--opsmanagerhost, --omh   hostname for Ops Manager [CFOPS_HOST]
--adminuser, --du         username for Ops Mgr admin (Ops Manager WebConsole Credentials) [CFOPS_ADMIN_USER]
--adminpass, --dp         password for Ops Mgr admin (Ops Manager WebConsole Credentials) [CFOPS_ADMIN_PASS]
--opsmanageruser, --omu   username for Ops Manager VM Access (used for ssh connections) [CFOPS_OM_USER]
--opsmanagerpass, --omp   password for Ops Manager VM Access (used for ssh connections) [CFOPS_OM_PASS]
--destination, -d        path of the Cloud Foundry backup archive [CFOPS_BACKUP_PATH]
```

# cfops restore

```
$ ./cfops help restore
```

## NAME:

```
restore - restore --opsmanagerhost <host> --adminuser <usr> --adminpass <pass> --opsmanageruser <opsuser> --o
```

## USAGE:

```
command restore [command options] [arguments...]
```

## DESCRIPTION:

Restore a Cloud Foundry deployment, including Ops Manager configuration, databases, and blob store

## OPTIONS:

--tilelist, --tl	a csv list of the tiles you would like to run the operation on [CFOPS_TILE_LIST]
--opsmanagerhost, --omh	hostname for Ops Manager [CFOPS_HOST]
--adminuser, --du	username for Ops Mgr admin (Ops Manager WebConsole Credentials) [CFOPS_ADMIN_USER]
--adminpass, --dp	password for Ops Mgr admin (Ops Manager WebConsole Credentials) [CFOPS_ADMIN_PASS]
--opsmanageruser, --omu	username for Ops Manager VM Access (used for ssh connections) [CFOPS_OM_USER]
--opsmanagerpass, --omp	password for Ops Manager VM Access (used for ssh connections) [CFOPS_OM_PASS]
--destination, -d	path of the Cloud Foundry backup archive [CFOPS_BACKUP_PATH]

# Is this the Backup / Restore you were looking for?



# Thank You!



Pivotal®