*HPC Data MANAGEMENT Environment*

Backup Strategy

Version *1.0*

*1/11/2017*

**Version History**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Version Number** | **Implemented**  **By** | **Revision**  **Date** | **Approved**  **By** | **Approval**  **Date** | **Description of Change** |
| 1.0 |  |  |  |  |  |

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# Purpose

Purpose of this document

# Introduction

## What is HPC DME?

The HPC DME, High Performance Computing Data Management Environment, is a highly adaptable and an open-ended data storage environment supporting storage and management of large data, produced from high performance computing systems. HPC DME provides capabilities for storing, managing, transferring and sharing large data across different systems securely and efficiently.

Users can store data on HPC DME for a duration defined by data storage policy, share and transfer their data such that they do not have to redistribute or maintain copies of the data on other systems by eliminating the data integrity issues. HPC DME stores and associates user defined metadata to any registered data at different levels of data life cycle, enabling the DME not only to help identify the data but also enhancing the search capabilities and to be able to attach a value factor to each dataset.

## Intended Users

The HPC data management environment is designed to meet the data storage and data management needs of NCI cancer community. Any user with a valid NCI user account can log into the HPC DME using NCI credentials.

Note: HPC DME currently only supports NCI account holders.

## HPC DME URL

Following is the HPC DME Server API URL:

<https://hpcdmeapi.nci.nih.gov/><Resource Name>

# Pre-Requisites

# HPC DME Overwiew

## Data Management

dfa

# Virtual machine Backup

System Admin Team have process in place to take backup of each VM in the VMWare environment.

**Backup schedule and Backup strategy**

Full VM backups during extended time (for example, weekend), incremental during weekdays.

# VIRTUAL MACHINE RECOVERY

# Restore a full virtual machine

Data Protection for VMware provides the following restoration mode:

**Full VM restoration**

Please send a email to Frederick Helpdesk [NCI-FHelpdesk@mail.nih.gov](mailto:NCI-FHelpdesk@mail.nih.gov) and ask them to create a ticket

Subject: Restore/Revert the <VM Server Name> to Date/Time <Day> <Date> <Time>

**Project: HPCDM**

**Environment:** Production

**Description:** Please revert/restore the VM: <VM Server Name>

Revert/Restore the VM to Date/Time 12/23/2016 10:00 AM

**Justification:** <VM Server Name> was working fine till <Day> <Date> <Time>. The VM is not working now. No changes were made in <VM Server Name> configuration files.

**Note:** Please send us your confirmation as soon as the ticket is completed.