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Find the most current information about BMC products
Search a database for issues similar to yours and possible solutions
Order or download product documentation
Download products and maintenance
Report an issue or ask a question
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Find worldwide BMC support center locations and contact information, including e-mail addresses, fax numbers, and telephone numbers

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- Product information
  - Product name
  - Product version (release number)
  - License number and password (trial or permanent)
- Operating system and environment information
  - Machine type
  - Operating system type, version, and service pack or other maintenance level such as PUT or PTF
  - System hardware configuration
  - Serial numbers
  - Related software (database, application, and communication) including type, version, and service pack or maintenance level
- Sequence of events leading to the issue
- Commands and options that you used
- Messages received (and the time and date that you received them)
  - Product error messages
  - Messages from the operating system, such as *file system full*
  - Messages from related software
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For the provisions described in the BMC License Agreement and Order related to third party products or technologies included in the BMC Product, see https://docs.bmc.com/docs/display/workloadautomation/Control-M+Workload+Automation+Documentation and click Third-party software (TPS).
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Control-M Workload Archiving Setup

Control-M Workload Archiving is a Control-M add-on that enables you to meet organizational audit and compliance requirements, and troubleshoot your environment using historical data.

Control-M Workload Archiving automatically collects and archives job log and output data in a secure and central repository that is separate from the production environment. The archive data is accessible to users via the Control-M client and Control-M Self Service based on Control-M/EM authorizations.

You can define Workload Archiving collection policies to determine the duration period of job log and output data in the Workload Archiving server, as described in Workload Archiving configuration (on page 10).

Control-M Workload Archiving is installed with a dedicated PostgreSQL database or you can connect to an existing Oracle database, even though Control-M/EM and Control-M/Server might be using a different database type. BMC recommends that you install Control-M Workload Archiving on a separate server. For more information, see Control-M Workload Archiving installation (on page 7).

Control-M Workload Archiving installation

The following procedures describe how to install Control-M Workload Archiving on UNIX and Windows, which enables you to archive job logs and outputs in a secure and central repository:

- Installing Control-M Workload Archiving on Windows (on page 8)
- Installing Control-M Workload Archiving on UNIX (on page 9)

Control-M Workload Archiving is installed with a dedicated PostgreSQL database server or an existing Oracle database server and cannot reside on the same computer as another database server. You must install a secondary instance of Control-M/EM server that is installed in a distributed configuration, as described in Control-M/Enterprise Manager installation. The installation process installs a dedicated GUI Server.

To install on a cluster environment, see Control-M/EM cluster configuration.

After you've completed the installation, you need to define Workload Archiving policies, as described in Defining Workload Archiving policies (on page 11).

NOTE: To avoid slow performance on Control-M/EM, set the Control-M/Server IOALOGLM system parameter to 7 or less.
Installing Control-M Workload Archiving on Windows

This procedure describes how to install Control-M Workload Archiving on Windows on a distributed Control-M/EM. You must install it on a distributed Control-M/EM.

**NOTE:** If you are using an Oracle database, you do not need to install the fix pack.

**Before you begin**

- Verify that the Control-M/EM database server is up and running.
- Install Control-M/Enterprise Manager version 9.0.00.300 or later on both Control-M/EM server and the Workload Archiving server.
- Download the Control-M Workload Archiving installation files (see Product Distribution in the Control-M Workload Archiving Release Notes).

➢ **To install Control-M Workload Archiving on Windows:**

1. From the Control-M Workload Archiving activation CD, double-click the **setup.exe** file. The **Control-M Workload Archiving Installation** wizard appears.

2. Do one of the following:
   - **Interactive install:** Follow the on-screen instructions until the installation is complete.
   - **Automatic install:** Create a parameter file and then run the automatic install in a non-interactive mode, as follows:
     a. Follow the on-screen instructions until the **Summary** window.
     b. Click **Generate** and select the location to create the XML parameter file.
     c. Click **Yes** to quit the installation.
     d. Click **Yes**.
     e. Copy the automatic installation parameters file to a network location that is accessible to all computers where you want to perform an automatic installation.
     f. Log in using a user ID that has Administrator permissions on the current computer.
     g. Ensure that the installation DVD is still in the DVD drive, and run the installation script, as follows:

```
<source_path>\Setup.exe -silent <xml_path>|<filename.xml>
```

The installation log can be found at the following location:

```
<InstallFolder>\ <Control-M/EM home dir>\ BMC_INSTALL\log\BMC_Control-M_Workload_Archiving_Install_<date-time>.log
```

3. **Click** **Done**.

   **NOTE:** If you cannot connect to Control-M Workload Archiving from the CCM, see 000087384.
Installing Control-M Workload Archiving on UNIX

This procedure describes how to install Control-M Workload Archiving on UNIX on a distributed Control-M/EM.

**NOTE:** If Control-M/Server is installed on AIX, add the `IPC_SOCK_RCVBUF 131072` parameter to the `config.dat` file on the Control-M/Server installation. After you have updated the file, recycle the Control-M/Server.

**NOTE:** If you are using an Oracle database, you do not need to install the fix pack.

**Before you begin**

- Verify that the Control-M/EM database server is up and running.
- Install Control-M/Enterprise Manager version 9.0.00.300 or later on both Control-M/EM server and the Workload Archiving server.
- Download the Control-M Workload Archiving installation files (see Product Distribution in the Control-M Workload Archiving Release Notes).

➢ To install Control-M Workload Archiving on UNIX:

1. Mount the installation CD from the root user and log off the root user before continuing with the installation.
2. Log in to the Control-M Workload Archiving account.
   
   **NOTE:** If you are using the GUI, set the environment variable `DISPLAY` to value `<hostName>:0.0`. It is not necessary to set `DISPLAY` for console mode or silent mode. (For more information, see Setting environment variables in UNIX.)
3. Type the following command:
   
   `<cdPath>/setup.sh`
4. Do one of the following:
   
   - **Interactive install:** Follow the on-screen instructions until the installation is complete.
   - **Automatic install:** Do the following:
     
     a. Follow the on-screen instructions until the **Summary** window.
     
     b. Click **Generate** and select the location to create the XML parameter file.
     
     c. Click **Yes** to quit the installation.
       
       A confirmation message appears.
     
     d. Click **Yes**.
     
     e. Copy the automatic installation parameters file to a network location that is accessible to all computers where you want to perform an automatic installation.
     
     f. To run the installation script, type the following command:
       
       `<source_path>/setup.sh -silent <source_path>/filename.xml`
5. Follow the on-screen instructions until the installation is complete.

**NOTE:** If you cannot connect to Control-M Workload Archiving from the CCM, see 000087384.
Workload Archiving configuration

Control-M Workload Archiving is a Control-M add-on that enables you to archive job log and output data in a secure and central repository.

When Control-M/Server submits a job to run on an Agent, the Workload Archiving Server archives the job log and output in a separate PostgreSQL or Oracle database for a defined period based on Workload Archiving Policies. A Workload Archiving Policy determines what type of data to archive (log, output, or both), and the retention period to store the archived data. It also determines which jobs (both Distributed and z/OS) to archive.

**NOTE:** The Workload Archiving process receives Control-M/EM authorization data to apply Control-M/EM user authorization rules. You do not need to define additional authorizations. For more information, see Control-M/EM Authorizations.

**NOTE:** (Control-M for z/OS only) To collect job output and logs, you must define the security user ARCUSER with the View LOG and View SYSOUT permissions.

**NOTE:** If you want to configure Control-M Workload Archiving with SSL, see Generating new certificates.

To start/stop the Workload Archiving database, perform backup and restore, and other database procedures, see arc_database_menu.

The following procedures describe how to start up and configure Workload Archiving settings:

- Starting up the Workload Archiving Server (on page 11)
- Defining Workload Archiving policies (on page 11)
- Configuring Workload Archiving disk space and cleanup settings (on page 13)
- Deleting data from the Workload Archiving server (on page 14)
- Shutting down the Workload Archiving Server (on page 15)

After you have created a Workload Archiving policy and have configured the required settings, you can now perform an Archive search, as described in Control-M Workload Archiving.
Starting up the Workload Archiving Server

This procedure describes how to start up the Workload Archiving Server from the CCM.

➢ To start up the Workload Archiving Server:
  ▪ Right-click the **Workload Archiving Server** component and select **Desired State > Up**.
    
    The Workload Archiving Server is now up.

Defining Workload Archiving policies

This procedure describes how to define Workload Archiving policies, which enables you to determine what type of data to archive and the retention period in the Workload Archiving database.

➢ To define Workload Archiving policies:

1. From the **Manage** tab, click **Workload Archiving**.
   
   The **Archive Configuration** window appears.

2. Click 🔄.
   
   The **Archive Policy Rule Settings** dialog box appears.

3. For each field, type or select the required value, as described in **Workload Archiving policy rule parameters** (on page 12).

4. Click **Save**.
   
   The Workload Archiving policy rule is added to the **Archive Policy** table.
Workload Archiving policy rule parameters

The following table describes Workload Archiving policy rule parameters that are used in Defining Workload Archiving policies (on page 11).

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Defines the name of the Workload Archiving policy</td>
</tr>
<tr>
<td>Status</td>
<td>Determines whether the Workload Archiving policy rule is active or inactive</td>
</tr>
<tr>
<td>Description</td>
<td>Describes the purpose or details of the Workload Archiving policy</td>
</tr>
<tr>
<td>Retention Period</td>
<td>Determines the number of days, months, or years the log/output is archived</td>
</tr>
<tr>
<td>Archive Data</td>
<td>Determines whether to archive the job log, output, or both</td>
</tr>
<tr>
<td>Control-M Server</td>
<td>Determines which Control-M/Servers are used to archive the data. You can use special characters to include in the Criteria column or exclude in the Exceptions column, as described in Pattern matching strings.</td>
</tr>
<tr>
<td>Type</td>
<td>Determines whether to archive the data from Distributed systems, z/OS, or both</td>
</tr>
<tr>
<td>Job Name</td>
<td>Determines which jobs are used to archive the data. You can use special characters to include in the Criteria column or exclude in the Exceptions column, as described in Pattern matching strings.</td>
</tr>
<tr>
<td>Job Type</td>
<td>Determines which job types are used to archived the data, such as OS or specific Application Plug-ins</td>
</tr>
<tr>
<td>Job Status</td>
<td>Determines whether to archive jobs that ended OK, Not OK, or both</td>
</tr>
<tr>
<td>Library</td>
<td>(z/OS only) Determines which libraries are used to archive the data. You can use special characters to include in the Criteria column or exclude in the Exceptions column, as described in Pattern matching strings.</td>
</tr>
<tr>
<td>Application</td>
<td>Determines which Applications are used to archive the data. You can use special characters to include in the Criteria column or exclude in the Exceptions column, as described in Pattern matching strings.</td>
</tr>
</tbody>
</table>
### Parameter Description

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sub-application</td>
<td>Determines which Sub-applications are used to archive the data. You can use special characters to include in the <strong>Criteria</strong> column or exclude in the <strong>Exceptions</strong> column, as described in Pattern matching strings.</td>
</tr>
</tbody>
</table>
| Folder             | Determines which Folders are used to archive the data. You can use special characters to include in the **Criteria** column or exclude in the **Exceptions** column, as described in Pattern matching strings. **EXAMPLE**: If you want to collect a SMART folder and all its content, add it here. If you want to collect a sub folder and all its content add its full path (including its name). If a sub-folder with same name `<sub_folder_name>` exist in more than one SMART folder, and you want to collect all of them, add `*/<sub_folder_name>`.
| Maximum Output Size| Determines the maximum size of job output that is archived in the Workload Archiving server. |
| Trim in case output exceeds max output | Determines whether to archive the output if it exceeds the maximum output size or cut off data from the beginning or end of the file. |

### Configuring Workload Archiving disk space and cleanup settings

This procedure describes how to configure Workload Archiving disk space and cleanup settings from the CCM.

➢ To configure Workload Archiving disk space and cleanup settings:

1. From the **Manage** tab, click **Workload Archiving**. The **Archive Configuration** window appears.
2. In the left pane, click **Advanced Configuration**. The **Server Configuration** dialog box appears.
3. For each field, type or select the required value, as described in Workload Archiving Server Configuration parameters (on page 14).
4. Click **Save**.
Workload Archiving Server Configuration parameters

The following table describes the Workload Archiving Server Configuration parameters that are used in Configuring Workload Archiving disk space and cleanup settings (on page 13).

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum free disk space required for Archive</td>
<td>Determines the size of free disk space that must remain where Control-M Workload Archiving is installed. If the threshold is exceeded, the Archiving process stops collecting data until the free disk space issue is resolved.</td>
</tr>
<tr>
<td>Interval to check free disk space</td>
<td>Determines intervals in seconds, minutes, or hours when to check the Workload Archiving Server for free disk space</td>
</tr>
<tr>
<td>Data cleanup cycle</td>
<td>Determines when to delete data from the Workload Archiving Server that is older than the retention period defined in the Workload Archiving policy (see Workload Archiving policy rule parameters (on page 12))</td>
</tr>
<tr>
<td>Cleanup start time</td>
<td>Determines when to start the cleanup</td>
</tr>
</tbody>
</table>

Deleting data from the Workload Archiving server

This procedure describes how to delete data (jobs including output and logs) from the Workload Archiving server. You can delete data that belongs to a specific rule or delete data that matches specific criteria of the command.

➢ To delete data from the Workload Archiving server:

- Type one of the following commands:
  - **Rule Name:** arc_cleanup -user<user> -password<password> -rule<ruleName>
  - **Data Attributes:** arc_cleanup -user<user> -password<password> -job_name<jobName> -job_name_exceptions<jobNameExceptions> -ctm<CTMServerName> -ctm_exceptions<CTMServerNameExceptions> -job_state<OK|NOTOK> -app<appName> -app_exceptions<appNameExceptions> -subapp<subApplication> -subapp_exceptions<subAppExceptions> -folder<folderName> -folder_exceptions<folderNameExceptions> -lib<library> -lib_exceptions<libraryExceptions>

  The search criteria support wildcard characters (* and ?) for both values and exceptions.

  **NOTE:** The parameters `-user` and `-password` are mandatory arguments.

  **EXAMPLE:** Delete all archived jobs that contain 'AA' except for jobs that start with 'B'.
  ```
  arc_cleanup -user <user> -password <password> -job_name "*AA*" -job_name_exceptions "B*
  ```
Shutting down the Workload Archiving Server

This procedure describes how to shut down the Workload Archiving Server from the CCM.

➢ To shut down the Workload Archiving Server:
  ▪ Right-click the **Workload Archiving Server** component and select **Desired State > Down**. The Workload Archiving Server is now down.