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| Product Installation Requirements |
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|  | Product Description |
|  | Product Name: CTMS |
|  | Product Version: Product\_Version  Environment URL : Environment\_URL |
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|  | 1. Pre-Installation Requirements |
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|  | Describe any system requirements that must exist on the targeted system prior to |
|  | installation, for the Product to function as intended. If multiple computers are |
|  | targeted by this installation, provide details pertaining to each. If any of the |
|  | columns are not applicable, enter N/A. |
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|  | 1.1 OS Requirements |
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|  | APP: Ubuntu 16.04 |
|  | RDS: AWS MYSQL 8.0.32 |
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|  | 1.2 Hardware Requirements |
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|  | App: Minimum m4.large |
|  | Database: Minimum T2.small |
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|  | 1.3 Medidata Product Dependencies (including Version and any configuration requirements) |
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|  | App: |
|  | - Imedidata |
|  | - Voltron |
|  | - MAUTH |
|  | - Platform Integration |
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|  | 1.4 3rd Party Product Dependencies (including Version and any configuration requirements) |
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|  | Database: |
|  | - Flyway migration tools. |
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|  | App: |
|  | - OpenJDK Java 8 |
|  | - Tomcat7 |
|  | - EFS (Elastic File System) |
|  | - aws-cli |
|  | - efs\_utils |
|  | - mysql 8.0.32 client |
|  | - git |
|  | - nginx |
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|  | 1.5 Network Communications Requirements |
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|  | App: |
|  | - AWS ALB |
|  | - VPC Security Groups |
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|  | 2. Properties and Parameters |
|  |  |
|  | \* `API\_ID` - should contain UUID of Imedidata APP. Will use for mauth registration as well |
|  | \* `APP\_CORRAL` - corral stage in medistrano |
|  | \* `APP\_NAME` - enter ctms id. ie. ctms-nameofclient-sandbox |
|  | \* `APP\_PROJECT\_STAGE` - corral stage in medistrano |
|  | \* `BATCH\_NODE` - `true` if a batch node is required for `false` otherwise. |
|  | \* `AUTHENTICATION\_CLASS` - leave default value ie. uhuru.bizx.security.SVCas or uhuru.bizx.security.SVSimple |
|  | \* `AUTHENTICATION\_RULE` - leave default value ie. 3 for imed integrated or 1 for non-imed |
|  | \* `CACHE` - Input relevant redis cache server |
|  | \* `CLOUD\_INTEGRATION\_ENABLED` - Enable integration with MCC platform |
|  | \* `CTMS\_VERSION` - Input CTMS version |
|  | \* `CUSTOMER\_GITREF ` - Input Customer branch if applicable or leave empty. |
|  | \* `DB\_HOSTNAME ` - Input db hostname from medistrano rds |
|  | \* `DB\_NAME ` - Input db name from medistrano rds |
|  | \* `DB\_PASSWORD ` - Input password from medistrano rds |
|  | \* `DB\_USERNAME ` - Input username from medistrano rds |
|  | \* `DEPLOY\_CUSTOMER\_TO` - Input customer deploy to path. ie. /mnt/ctms-nameofclient-sandbox-customer |
|  | \* `DEPLOY\_ID` - should be a relevant timestamp. Keep it empty for now. |
|  | \* `DEPLOY\_TO` - Input deploy\_to path. ie. /mnt/ctms-nameofclient-sandbox |
|  | \* `FILE\_IMPORT\_NODE` - `true` if a file import node is required for `false` otherwise. |
|  | \* `FTP\_URL` - enter same as URL. ie. ctms-nameofclient.imedidata.net |
|  | \* `GIT\_BRANCH` - input git commit, tag or branch. ie Product\_Version    or Git\_Branch |
|  | \* `MAUTH\_PRIVATE\_KEY` - Enter mauth private key |
|  | \* `MAUTH\_PUBLIC\_KEY` - Enter mauth public key |
|  | \* `REPORTING\_SERVER` - enter Jasper reporting server link |
|  | \* `URL` - enter same URL from above. ie. ctms-nameofclient.imedidata.net |
|  | \* `deploy\_by` - Leave empty |
|  | \* `CLIENT\_DIVISION\_UUID` - Required when CLOUD\_INTEGRATION\_ENABLED=true |
|  | \* `ISS\_URL` - Required when CLOUD\_INTEGRATION\_ENABLED=true |
|  | \* `RCM\_PRODUCT\_DEFAULT` - Required when RCM\_IMEDIDATA\_ENABLED=true; enter "CTMS" |
|  | \* `RCM\_IMEDIDATA\_ENABLED` - Enable integration with RCM |
|  | \* `RCM\_IMEDIDATA\_LOGIN\_URL` - Required when RCM\_IMEDIDATA\_ENABLED=true; enter https://login-$STAGE.imedidata.net/login?service= |
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|  | 2.1 iMedidata apps configuration |
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|  | Created manually through Imedidata URL. |
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|  | 3. Verification Steps |
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|  | Describe the steps that are taken to verify that the installation process |
|  | completed successfully. These verification steps should include (but are not limited to) |
|  | verification that the installation parameters were applied correctly and verification |
|  | that the correct media was used. |
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|  | Step: Browse CTMS /info website. Verify that the page loads without errors and displays |
|  | the correct CTMS version. |
|  | Expected result: Product\_Version |

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| Document Version | Author/Title | Date |
| 1.0 | Deploy\_By | Deploy\_Date |