

OBVAM Pre-Installation Guide
Oracle Banking Virtual Account Management
Release 14.5.0.0.0
Part Number F41346-01
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1. Installation Process

This document details out the order (sequence) in which the user must carry on the installation process. The common services required by OBVAM application are also listed.

1.1 Execution Order of Installation Manual

Oracle Banking Virtual Account Management Installer Guide proceeds with other installations guide:

- Oracle Banking Microservices Platform Foundation Installation Guide
- Oracle Banking Security Management System Services Installation Guide
- Oracle Banking Common Core Services Installation Guide
- Oracle Banking Virtual Account Management Installation Guide

1.2 Supporting Documents

- Oracle Banking Microservices Platform Foundation – ANNEXURE-1 (for LDAP Setup)

1.3 Prerequisite

OSDC package consists of 4 zip files. Before proceeding with installation, you have to unzip them into the same common folder.

- OBVAM_14.5.0.0.0_CD1.zip
- OBVAM_14.5.0.0.0_CD2.zip
- OBVAM_14.5.0.0.0_CD3.zip
- OBVAM_14.5.0.0.0_CD4.zip

1.3.1 Software Prerequisite List

- Oracle Database Enterprise Edition
- Oracle WebLogic Server Standard Edition
- LDAP server
- Apache Kafka
- Apache ZooKeeper
- Conductor Server

1.3.2 PLATO Installation

1.3.2.1 List of Services required for OBVAM

1. PLATO-CONFIG-SERVICE
2. PLATO-API-GATEWAY
3. PLATO-DISCOVERY-SERVICE
4. PLATO-UI-CONFIG-SERVICES
5. PLATO-BATCH-SERVER
6. PLATO-FEED-SERVICES
7. PLATO-ORCH-SERVICE

Refer 'Oracle Banking Plato Infrastructure Services Installation Guide' for further details on deployments.

1.3.2.2 Domain Configuration

Copy below files from the OSDC path to PLATO <domain>/bin folder.

1. pre_deployment_setup\plato-config-deploy.env
This file applicable only for plato-config-service. Edit this file and provide appropriate values.
2. pre_deployment_setup\domain-config-deploy.env
This file is applicable for rest of the PLATO services. Edit this file and provide appropriate values
3. pre_deployment_setup\weblogic\setUserOverrides.sh

For providing property values, refer to “**Annexure**” section of this document.

1.3.3 SMS Installation

1.3.3.1 List of Services required for OBVAM

1. SMS-CORE-SERVICES

1.3.3.2 Domain Configuration

Copy below files from the OSDC path to <domain>/bin folder.

1. pre_deployment_setup\domain-config-deploy.env
Edit this file and provide appropriate values
2. pre_deployment_setup\weblogic\setUserOverrides.sh

Refer ‘Oracle Banking Security Management System Services Installation Guide’ for further details on deployments.

1.3.4 COMMON CORE Installation

1.3.4.1 List of Services required for OBVAM

1. CMC-ACCOUNT-SERVICE
2. CMC-BRANCH-SERVICE
3. CMC-BASE-SERVICE
4. CMC-BATCH-SERVICES
5. CMC-CUSTOMER-SERVICE
6. CMC-CURRENCY-SERVICE
7. CMC-DATASEGMENT-SERVICES
8. CMC-EXTERNAL-SYSTEM-SERVICE
9. CMC-SETTLEMENTS-SERVICE
10. CMC-TXN-CODE-SERVICE
11. CMC-EXTERNAL-CHART-ACCOUNT
12. CMC-ADVICE-SERVICES
13. CMC-FACILITIES-SERVICES
14. CMC-REPORT-SERVICE
15. CMC-RESOURCE-SEGMENT-ORCHESTRATOR-SERVICE
16. CMC-EXTERNAL-VIRTUAL-ACCOUNT-SERVICES

17. CMC-COREBANKING-ADAPTER-SERVICE
18. CMC-TRANSACTIONCONTROLLER-SERVICES
19. CMC-SCREENCLASS-SERVICES
20. CMC-ADDITIONAL-ATTRIBUTES-SERVICES
21. CMC-OBRRH-SERVICE

1.3.4.2 Domain Configuration

Copy below files from the OSDC path to <domain>/bin folder.

1. pre_deployment_setup\domain-config-deploy.env
Edit this file and provide appropriate values
2. pre_deployment_setup\weblogic\setUserOverrides.sh

Refer 'Oracle Banking Common Core Service Installation Guide' for further details.

1.4 Annexure

1.4.1 plato-config-deploy.env

The below properties have fixed values and should not be changed.

S NO	PROPERTY	VALUE
1	flywayTask	migrate
2	flyway.enabled	true
3	spring.flyway.enabled	false
4	plato-config.flyway.domain.locations	db/migration/domain/plato, db/migration/domain/sms, db/migration/domain/cmc, db/migration/domain/obvam
5	flyway.domain.placeholders.plato-feed-services.jndi	jdbc/PLATOFEEED
6	flyway.domain.placeholders.plato-batch-server.jndi	jdbc/PLATOBATCH
7	flyway.domain.placeholders.plato.jndi	jdbc/PLATO
8	flyway.domain.placeholders.plato-config.jndi	jdbc/PLATO

9	flyway.domain.placeholders.plato-sec.jndi	jdbc/PLATO_SECURITY
10	flyway.domain.placeholders.plato-ui-config.jndi	jdbc/PLATO_UI_CONFIG
11	flyway.domain.placeholders.sms.jndi	jdbc/sms
12	flyway.domain.placeholders.cmncore.jndi	jdbc/CMNCORE
13	flyway.domain.placeholders.eie.jndi	jdbc/EIE
14	flyway.domain.placeholders.elm.jndi	jdbc/ELM
15	flyway.domain.placeholders.vam.jndi	jdbc/VAM
16	flyway.domain.placeholders.vac.jndi	jdbc/VAC
17	flyway.domain.placeholders.vab.jndi	jdbc/VAB
18	flyway.domain.placeholders.vae.jndi	jdbc/VAE
19	flyway.domain.placeholders.eda.jndi	jdbc/EDA
20	flyway.domain.placeholders.vai.jndi	jdbc/VAI
21	flyway.domain.placeholders.van.jndi	jdbc/VAN
22	flyway.domain.placeholders.vap.jndi	jdbc/VAP
23	flyway.domain.placeholders.vas.jndi	jdbc/VAS
24	flyway.domain.placeholders.vat.jndi	jdbc/VAT
25	flyway.domain.placeholders.obic.jndi	jdbc/VAM

26	flyway.domain.placeholders.obvamic.jndi	jdbc/VAM
27	flyway.domain.placeholders.platoorch.domain.jndi	jdbc/PLATO-O
28	flyway.domain.placeholders.plato-config.db.jndi	jdbc/PLATO

You should provide appropriate values for the below fields

S NO	PROPERTY	VALUE
1	PLATO_CONFIG_MANAGED_SERVER_NAME	<plato config managed server name>
2	plato-config.flyway.domain.db.username	<plato schema username>
3	plato-config.flyway.domain.db.password	<plato schema password>
4	plato-config.flyway.domain.db.jdbcUrl	<plato schema jdbcUrl>
5	plato-config.flyway.domain.schemas	<plato schema name>
6	flyway.domain.placeholders.plato.eventhub.broker.hosts	<kafka url>
7	flyway.domain.placeholders.plato.eventhub.zookeeper.hosts	<zookeeper url>
8	flyway.domain.placeholders.driver.className	oracle.jdbc.driver.OracleDriver
9	flyway.domain.placeholders.eureka.host	<eureka host>
10	flyway.domain.placeholders.eureka.port	<eureka port>
11	flyway.domain.placeholders.zipkin.host	<zipkin host>

12	flyway.domain.placeholders.zipkin.port	<zipkin port>
13	flyway.domain.placeholders.plato-config.username	<plato schema username>
14	flyway.domain.placeholders.plato-config.password	<plato schema password>
15	flyway.domain.placeholders.plato-config.jdbcUrl	<plato schema jdbcUrl>
16	flyway.domain.placeholders.plato-config.schemas	<plato schema name>
17	flyway.domain.placeholders.plato-config.sessionIdleTimeout	<session idle timeout>
18	flyway.domain.placeholders.plato-config.sessionIdleWarningTime	<session idle warning time>
19	flyway.domain.placeholders.plato-config.environment	<plato environment>
20	flyway.domain.placeholders.api-gateway.host	<api-gateway host>
21	flyway.domain.placeholders.api-gateway.username	<api-gateway schema username>
22	flyway.domain.placeholders.api-gateway.password	<api-gateway schema password>
23	flyway.domain.placeholders.api-gateway.jdbcUrl	<api-gateway schema jdbcUrl>
24	flyway.domain.placeholders.api-gateway.schemas	<api-gateway schema name>

25	flyway.domain.placeholders.plato-api-gateway.server.port	<api-gateway server port>
26	flyway.domain.placeholders.USER.STORE	<user store>
27	flyway.domain.placeholders.LDAP.CORS.allowed.origin	<LDAP cors allowed origins with comma separated list>
28	flyway.domain.placeholders.LDAP.credential.SALT	<salt>
29	flyway.domain.placeholders.JWT.EXPIRY.seconds	<expiry seconds>
30	flyway.domain.placeholders.LDAP.url	<LDAP url>
31	flyway.domain.placeholders.LDAP.userId	<LDAP userid>
32	flyway.domain.placeholders.LDAP.server.base	<LDAP server base>
33	flyway.domain.placeholders.LDAP.server.credential	<LDAP server credential>
34	flyway.domain.placeholders.LDAP.usersearch.base	<LDAP user search base>
35	flyway.domain.placeholders.LDAP.user.prefix	<LDAP user prefix>
36	flyway.domain.placeholders.LDAP.provider	Allowed values are: EMBEDDED_WEBLOGIC, PLATO. If LDAP is running in weblogic then value should be EMBEDDED_WEBLOGIC, else if spring based LDAP (which is run through a jar provided) is used, then the value should be PLATO

37	flyway.domain.placeholders.TOKEN.autoregenerate	<autogenerate token>
38	flyway.domain.placeholders.SSO.enabled	<is SSO enabled>
39	flyway.domain.placeholders.TOKEN.regeneration.enabled	<is token regeneration enabled>
40	flyway.domain.placeholders.plato-ui-config.username	<plato-ui schema username>
41	flyway.domain.placeholders.plato-ui-config.password	<plato-ui schema password>
42	flyway.domain.placeholders.plato-ui-config.jdbcUrl	<plato-ui schema jdbc url>
43	flyway.domain.placeholders.plato-ui-config.schemas	<plato-ui schema name>
44	flyway.domain.placeholders.plato-ui-config-services.server.port	<plato-ui service port>
45	flyway.domain.placeholders.apigateway.host	<api-gateway host>
46	flyway.domain.placeholders.apigateway.port	<api-gateway port>
47	flyway.domain.placeholders.plato-discovery-service.server.port	<plato-discovery service port>
48	flyway.domain.placeholders.plato-orch-service.server.port	<plato-orch service port>
49	flyway.domain.placeholders.plato-orchestrator.hostname	<plato-orchestrator hostname>

50	flyway.domain.placeholders.plato-feed-services.username	<plato-feed schema username>
51	flyway.domain.placeholders.plato-feed-services.password	<plato-feed schema password>
52	flyway.domain.placeholders.plato-feed-services.jdbcUrl	<plato-feed schema jdbc url>
53	flyway.domain.placeholders.plato-feed-services.schemas	<plato-feed schema name>
54	flyway.domain.placeholders.plato-feed-services.feed.upload.directory	<plato-feed upload directory>
55	flyway.domain.placeholders.plato-feed-services.server.port	<plato-feed service port>
56	flyway.domain.placeholders.plato-batch-server.username	<plato-batch schema username>
57	flyway.domain.placeholders.plato-batch-server.password	<plato-batch schema password>
58	flyway.domain.placeholders.plato-batch-server.jdbcUrl	<plato-batch schema jdbcUrl>
59	flyway.domain.placeholders.plato-batch-server.schemas	<plato-batch schema name>
60	flyway.domain.placeholders.plato-batch-server.server.port	<plato-batch server port>
61	flyway.domain.placeholders.plato-batch-server.plato.eventhub.kafka.brokers	<plato-batch kafka url>
62	flyway.domain.placeholders.plato-batch-server.plato.eventhub.zk.nodes	<plato-batch zookeeper url>

63	flyway.domain.placeholders.plato-alerts-management-services.username	<plato-alerts-management schema username>
64	flyway.domain.placeholders.plato-alerts-management-services.password	<plato-alerts-management schema password>
65	flyway.domain.placeholders.plato-alerts-management-services.jdbcUrl	<plato-alerts-management schema jdbcUrl>
66	flyway.domain.placeholders.plato-alerts-management-services.schemas	<plato-alerts-management schema schemas>
67	flyway.domain.placeholders.plato-alerts-management-services.server.port	<plato-alerts-management schema port>
68	flyway.domain.placeholders.sms-core-services.server.port	<sms-core server port>
69	flyway.domain.placeholders.sms.username	<sms schema username>
70	flyway.domain.placeholders.sms.password	<sms schema password>
71	flyway.domain.placeholders.sms.jdbcUrl	<sms schema jdbcUrl>
72	flyway.domain.placeholders.sms.schemas	<sms schema name>
73	flyway.domain.placeholders.cmncore.username	<cmncore schema username>
74	flyway.domain.placeholders.cmncore.password	<cmncore schema password>
75	flyway.domain.placeholders.cmncore.jdbcUrl	<cmncore schema jdbcUrl>
76	flyway.domain.placeholders.cmncore.schemas	<cmncore schema name>

77	flyway.domain.placeholders.cmc-corebanking-adapter-service.server.port	<cmc-corebanking-adapter server port>
78	flyway.domain.placeholders.cmc-currency-services.server.port	<cmc-currency server port>
79	flyway.domain.placeholders.cmc-account-services.server.port	<cmc-account server port>
80	flyway.domain.placeholders.cmc-base-services.server.port	<cmc-base server port>
81	flyway.domain.placeholders.cmc-external-virtual-account-services.server.port	<cmc-external-virtual-account server port>
82	flyway.domain.placeholders.cmc-branch-services.server.port	<cmc-branch server port>
83	flyway.domain.placeholders.cmc-customer-services.server.port	<cmc-customer server port>
84	flyway.domain.placeholders.cmc-external-chart-account-services.server.port	<cmc-external-chart-account server port>
85	flyway.domain.placeholders.cmc-external-system-services.server.port	<cmc-external-system server port>
86	flyway.domain.placeholders.cmc-advice-services.server.port	<cmc-advice server port>
87	flyway.domain.placeholders.cmc-facilities-services.server.port	<cmc-facilities server port>
88	flyway.domain.placeholders.cmc-txn-code-services.server.port	<cmc-txn-code server port>
89	flyway.domain.placeholders.cmc-settlement-services.server.port	<cmc-settlement server port>

90	flyway.domain.placeholders.cmc-businessoverrides-services.server.port	<cmc-businessoverrides server port>
91	flyway.domain.placeholders.cmc-resource-segment-orchestrator-service.server.port	<cmc-resource-segment-orchestrator server port>
92	flyway.domain.placeholders.cmc-screenclass-services.server.port	<cmc-screenclass server port>
93	flyway.domain.placeholders.cmc-datasegment-services.server.port	<cmc-datasegment server port>
94	flyway.domain.placeholders.cmc-settlements-services.server.port	<cmc-settlements server port>
95	flyway.domain.placeholders.cmc-transactioncontroller-services.server.port	<cmc-transactioncontroller server port>
96	flyway.domain.placeholders.cmc-report-services.server.port	<cmc-report server port>
97	flyway.domain.placeholders.cmc-nlp-annotator-services.server.port	<cmc-nlp-annotator server port>
98	flyway.domain.placeholders.cmc-nlp-dashboard-widget-services.server.port	<cmc-nlp-dashboard-widget server port>
99	flyway.domain.placeholders.cmc-nlp-model-mngmnt-services.server.port	<cmc-nlp-model-mngmnt server port>
100	flyway.domain.placeholders.cmc-nlp-online-processing-services.server.port	<cmc-nlp-online-processing server port>
101	flyway.domain.placeholders.cmc-nlp-tag-maint-services.server.port	<cmc-nlp-tag-maint server port>
102	flyway.domain.placeholders.cmc-nlp-text-extraction-services.server.port	<cmc-nlp-text-extraction server port>

103	flyway.domain.placeholders.cmc-nlp-txn-log-services.server.port	<cmc-nlp-txn-log server port>
104	flyway.domain.placeholders.cmc-nlp-util-services.server.port	<cmc-nlp-util server port>
105	flyway.domain.placeholders.cmc-batch-services.server.port	<cmc-batch server port>
106	flyway.domain.placeholders.cmc-fc-ai-ml-services.server.port	<cmc-fc-ai-ml server port>
107	flyway.domain.placeholders.cmc-fc-ai-ml-services.postingPath	<cmc-fc-ai-ml service postingPath>
108	flyway.domain.placeholders.cmc-fc-ai-ml-services.pollingEmail	<cmc-fc-ai-ml service pollingEmail>
109	flyway.domain.placeholders.cmc-fc-ai-ml-services.emailServerPort	<cmc-fc-ai-ml service emailServerPort>
110	flyway.domain.placeholders.cmc-fc-ai-ml-services.emailServerHost	<cmc-fc-ai-ml service emailServerHost>
111	flyway.domain.placeholders.cmc-fc-ai-ml-services.pollingFrequency	<cmc-fc-ai-ml service pollingFrequency>
112	flyway.domain.placeholders.cmc-fc-ai-ml-services.pollerInitialDelay	<cmc-fc-ai-ml service pollerInitialDelay>
113	flyway.domain.placeholders.cmc-fc-ai-ml-services.emailPassword	<cmc-fc-ai-ml service emailPassword>
114	flyway.domain.placeholders.cmc-fc-ai-ml-services.pollingPath	<cmc-fc-ai-ml service pollingPath>
115	flyway.domain.placeholders.weblogic.user id	<weblogic userid>

116	flyway.domain.placeholders.weblogic.password	<weblogic password>
117	flyway.domain.placeholders.biPublisher.host	<biPublisher host>
118	flyway.domain.placeholders.biPublisher.port	<biPublisher port>
119	flyway.domain.placeholders.runReportTemplate	<run report template>
120	flyway.domain.placeholders.emailTemplate	<email template>
121	flyway.domain.placeholders.dms.host	<dms host>
122	flyway.domain.placeholders.dms.port	<dms port>
123	flyway.domain.placeholders.eie.server.port	<eie server port>
124	flyway.domain.placeholders.eie.schemas	<eie schema name>
125	flyway.domain.placeholders.elm.server.port	<elm server port>
126	flyway.domain.placeholders.elm.schemas	<elm schema name>
127	flyway.domain.placeholders.vam.server.port	<vam server port>
128	flyway.domain.placeholders.vam.schemas	<vam schema name>
129	flyway.domain.placeholders.vac.server.port	<vac server port>
130	flyway.domain.placeholders.vac.schemas	<vac schema name>

131	flyway.domain.placeholders.vab.server.port	<vab server port>
132	flyway.domain.placeholders.vab.schemas	<vab schema name>
133	flyway.domain.placeholders.vae.server.port	<vae server port>
134	flyway.domain.placeholders.vae.schemas	<vae schema name>
135	flyway.domain.placeholders.eda.server.port	<eda server port>
136	flyway.domain.placeholders.eda.schemas	<eda schema name>
137	flyway.domain.placeholders.vai.server.port	<vai server port>
138	flyway.domain.placeholders.vai.schemas	<vai schema name>
139	flyway.domain.placeholders.van.server.port	<van server port>
140	flyway.domain.placeholders.van.schemas	<van schema name>
141	flyway.domain.placeholders.vap.server.port	<vap server port>
142	flyway.domain.placeholders.vap.schemas	<vap schema name>
143	flyway.domain.placeholders.vas.server.port	<vas server port>
144	flyway.domain.placeholders.vas.schemas	<vas schema name>
145	flyway.domain.placeholders.vat.server.port	<vat server port>

146	flyway.domain.placeholders.vat.schemas	<vat schema name>
147	flyway.domain.placeholders.vaj.server.port	<vaj server port>
148	spring.cloud.config.uri	<config service uri>
149	apigateway.url	<apigateway url>
150	service.logging.environment	<environment> example: DEV, TEST
151	service.logging.path	<application debug logs path>
152	apigateway.host	<api gateway host>
153	apigateway.port	<api gateway port>
154	flyway.domain.placeholders.vaj.server.port	<plato batch server port>
155	flyway.domain.placeholders.feed.upload.directory	<feed upload directory>
156	flyway.domain.placeholders.plato.services.entityservices.port	<entityservices port>
157	flyway.domain.placeholders.plato.services.internal.transfer.port	<internal transfer port>
158	flyway.domain.placeholders.plato.services.statement.port	<statement port>
159	flyway.domain.placeholders.obic.server.port	<obic server port>
160	flyway.domain.placeholders.obic.eodSchedulerReqd	<obic eod scheduler required>

161	flyway.domain.placeholders.obic.schemas	<obic schemas>
162	flyway.domain.placeholders.obic.isSslEnabledfalse	<obic ssl enabled>
163	flyway.domain.placeholders.obic.apiProtocolhttp	<obic api protocol>
164	flyway.domain.placeholders.obic.preferIp	<obic prefer ip>
165	flyway.domain.placeholders.obic.deploymentsType	<obic deployment type>
166	flyway.domain.placeholders.obic.intradaySchedulerReqd	<obic intraday scheduler required>
167	flyway.domain.placeholders.obvamic.server.port	<obvamic server port>
168	flyway.domain.placeholders.obvamic.eodSchedulerReqd	<obvamic eod scheduler required>
169	flyway.domain.placeholders.obvamic.schemas	<obvamic schemas>
170	flyway.domain.placeholders.obvamic.intradaySchedulerReqd	<obvamic intraday scheduler required>
171	flyway.domain.placeholders.plato.alerts.email.userId	<plato alerts email userid>
172	flyway.domain.placeholders.plato.alerts.email.password	<plato alerts email password>
173	flyway.domain.placeholders.kafka.ssl.truststore.location	<kafka ssl truststore location>
174	flyway.domain.placeholders.kafka.ssl.truststore.password	<kafka ssl truststore password>

175	flyway.domain.placeholders.kafka.broker.username	<kafka broker username>
176	flyway.domain.placeholders.kafka.broker.password	<kafka broker password>
177	flyway.domain.placeholders.plato.alerts.cmc.userId	<plato alerts cmc userid>
178	flyway.domain.placeholders.plato.alerts.cmc.branchCode	<plato alerts cmc branchcode>
179	flyway.domain.placeholders.plato.alerts.cmc.appld	<plato alerts cmc appld>
180	flyway.domain.placeholders.obrh.import.data.disable-modify	<obrh import data - disable modify>
181	flyway.domain.placeholders.platoorch.do.main.schemas	<platoorch schema>
182	flyway.domain.placeholders.cmc-obrh-services.kafka.server.path	<cmc obrh kafka server path>
183	flyway.domain.placeholders.cmc-obrh-services.zookeeper.server.path	<cmc obrh zookeeper server path>
184	flyway.domain.placeholders.cmc-obrh-services.kafka.enabled	<cmc obrh kafka enabled>
185	flyway.domain.placeholders.report-service.server.port	<report-service server port>
186	flyway.domain.placeholders.report-service.schemas	<report-service schema>
187	flyway.domain.placeholders.cmc-nlp-opennlp-services.server.port	<nlp opennlp service port>

188	flyway.domain.placeholders.cmc-nlp-maintenance-services.server.port	<nlp maintenance service port>
189	flyway.domain.placeholders.cmc-nlp-pipeline-services.server.port	<nlp pipeline service port>
190	flyway.domain.placeholders.cmc-nlp-docview-services.server.port	<nlp docview service port>
191	flyway.domain.placeholders.plato-rule.hostname	<plato rule hostname>
192	flyway.domain.placeholders.plato-rule-service.server.port	<plato rule service port>
193	flyway.domain.placeholders.platorule.domain.jndi	<plato rule jndi>
194	flyway.domain.placeholders.platorule.domain.schemas	<plato rule schemas>
195	flyway.domain.placeholders.cmc-ml-indb-services.server.port	<cmc ml indb service port>
196	flyway.domain.placeholders.cmc-sla-services.server.port	<cmc sla service port>

1.4.2 domain-config-deploy.env

The below properties have fixed values and should not be changed.

S NO	PROPERTY	VALUE
1	flywayTask	migrate
2	flyway.enabled	true
3	spring.flyway.enabled	false

You should provide appropriate values for the below fields

S NO	PROPERTY	VALUE
1	spring.cloud.config.uri	<config service uri>
2	apigateway.url	<apigateway url>
3	service.logging.environment	<environment> example: DEV, TEST
4	service.logging.path	<application debug logs path>

1.5 **Disclaimer**

Every step which is provided in this document in 1.2 section are mandatory.



OBVAM Pre-Installation Guide

Oracle Financial Services Software Limited
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India

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