

Hybrid Cloud Management Setup

Enterprise Manager 13c





July 2016

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Hybrid Cloud Management

Single Pane of Glass with Enterprise Manager to manage services on Oracle Cloud

- 1  Compute
- 2  Database
- 3  Java
- 4  Cloud Machine

ORACLE[®] **13^c**
ENTERPRISE MANAGER



On-Premise EM

Oracle Cloud

3-Easy Steps to Enable Hybrid



**Check
Prerequisites**

Make sure an on-premise host with an EM agent can communicate with Oracle Cloud



**Configure a
Gateway**

Configure that agent as a Gateway



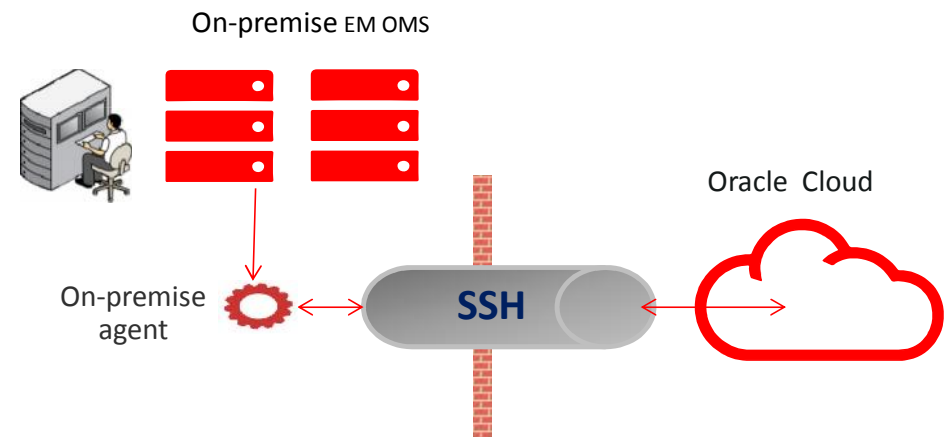
**Deploy agent
on
Oracle Cloud**

Deploy agents on Oracle cloud VMs to communicate back to the Gateway

Check Prerequisites

1 2 3

- On-Premise end:
 - Choose any host with:
 - SSH connectivity with the cloud VMs to be monitored (SSH may be tunneled via a corporate firewall/proxy)
 - EM Agents (version 12cR5 or 13c)
- Oracle Cloud end:
 - Default port 1748, or at least one port in the range 1830 to 1848 is free on Oracle Cloud VM
 - The EM Agent install user on the VMs has sudo privileges to run the root.sh script



Hybrid Cloud Gateway

1 2 3

- Simple Gateway configuration step
 - Register any EM agent at on-premises environment as a Gateway Agent
 - emcli register_hybridgateway_agent -hybridgateway_agent_list="<EM target name for the agent chosen in Step 1 >"*
- Additional Gateways are supported for failover and load-balancing

Deploy EM Agent on Oracle Cloud

1 > 2 > 3

- Deploy agent(s) on Oracle Cloud VMs using the following inputs:
 - IP Address of the VMs
 - SSH public keys mapped as EM Named Credentials
 - Use Setup->Security menu on the EM GUI or emcli to create a Named Credential
 - Details on Gateway configured in Step 2
- Agent can be deployed using EM Agent Push UI or through EMCLI as follows:
 - `emcli submit_add_host`
 - host_names=<IP Addresses of VMs on Oracle Cloud>
 - installation_base_directory=< Path for installing agent on the VMs>
 - credential_name=<EM Credential for SSH key>
 - configure_hybrid_cloud_agent -hybrid_cloud_gateway_agent=<Target Name for Gateway Agent >
 - hybrid_cloud_gateway_proxy_port=<Port on Gateway host for outbound SSH communication>

Additional Information

- [Enterprise Manager Page on O.com](#)
- [Hybrid Cloud Management Page on OTN](#)
- [Hybrid Cloud Management \(Documentation\)](#)

Enterprise Manager Hybrid Cloud Management



Oracle Enterprise Manager delivers comprehensive capabilities to manage, migrate, test and deploy across hybrid cloud, providing for 100% reuse of existing IT operations management skills and practices.



Solution Brief: Comprehensive Management for Hybrid Clouds



Demo: Hybrid Cloud Lift & Shift with Consistent Governance and Enforced Compliance

Solution Overview

Oracle Enterprise Manager streamlines and automates complex management tasks across the complete cloud lifecycle. On-premises administrators can monitor and manage public cloud services, and vice versa. Oracle Cloud services are managed by the same Oracle Enterprise Manager tools that customers use on-premises to monitor, provision, and maintain Oracle Databases, Engineered Systems, Oracle Applications, Oracle Middleware, and a variety of third-party systems. This additionally eliminates the costly consequences of purchasing and learning numerous new tools to manage enterprise hybrid clouds.

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Appendix

Glossary of Terms

- **Hybrid Mode for EM agent:** It's a normal Enterprise Manager Agent deployed on the VMs within Oracle Cloud. The Hybrid Mode is a special configuration to protect the identity of Management Servers from any external person/process.
- **Hybrid Cloud Gateway:** An agent with some special configuration that is installed within the customer's on-premises environment and communicates with Oracle Cloud.