ORACLE

Oracle Enterprise Session Border Controller For Azure Marketplace

Oracle's Enterprise Session Border Controller (E-SBC) can now be quickly deployed on Microsoft Cloud via the Azure Marketplace using the "Bring Your Own License" model. The E-SBC helps connect disparate SIP-based real-time communications networks while mitigating security threats, curing interoperability problems, and ensuring reliable communications, thus enabling enterprises to address their increased need for flexible and agile voice, video and Unified Communications (UC) infrastructures while reducing CAPEX and OPEX.

OVERVIEW

The E-SBC for Azure leverages the same code base as Oracle's appliance based E-SBCs. It provides the strong security, reliability and scalability that enterprises and contact centers rely on for their real-time communications. Starting at 25 sessions, the E-SBC on Azure can be deployed by small to very large enterprises for use cases including: SIP trunking, unified communications & collaboration (UC&C), contact centers (CC), hosted voice services, and connecting remote workers. The E-SBC is both horizontally and vertically scalable depending on capacity and performance requirements. There is also the option of Oracle's network wide licensing (NWL) model which enables license rebalancing and capacity redistribution for efficient use of virtualization resources.

The E-SBC is designed to fit into Oracle's mission to see data in new ways, discover insights, and unlock endless possibilities. Our E-SBC aligns to Oracle's Network Function Virtualization (NFV) vision, offering the simplified manageability, orchestration, and integrated analytics synonymous with a cloud native architecture. Oracle's E-SBC is certified with leading UC&C, CC and hosted telephony platforms, including Microsoft Teams and Genesys PureEngage.

The E-SBC is a field-proven solution for connecting a wide range of multivendor VoIP, UCC and contact center systems to public network services, including SIP trunking services, the Internet and cloud applications.

Oracle Advantage
- Common code base with appliance E-SBCs
- Feature parity from small to large scale deployments
- DSP support for high scale transcoding
- Small Footprint E-SBC for MSPs
- FIPS and JITC Compliant
- Microsoft Teams Certified
- Genesys PureEngage contact center certified
- Zoom certified
- Automation via industry standard HEAT Templates
- Configuration and Life Cycle Management through REST APIs
- Built-in Oracle Enterprise Operations Monitor probe
- Pooled Network Wide Licensing

Applications
- SIP Trunking
- IP Enabled Contact Centers
- Unified Communications
- Hosted IP Communication Services
- Remote Workers and Offices

Key Business Benefits
- Enables E-SBC to be placed where most effective and least expensive to operate
- Simplifies and accelerates service deployment
- Reduces CAPEX and OPEX
- Protects real-time communications against cyber-attacks

DEPLOYMENT ON AZURE PUBLIC CLOUD
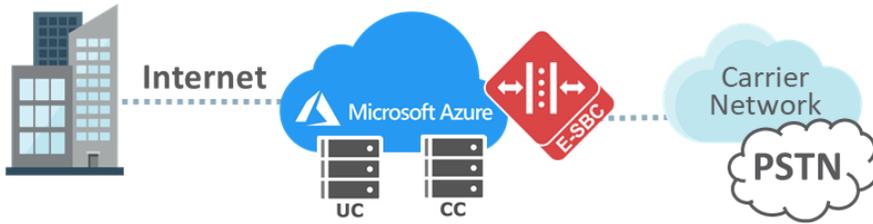
The virtualized instances can be deployed on Microsoft Azure public cloud through the Azure Marketplace through a few clicks of the mouse.

E-SBC DATASHEET

Specifications and Capacities on Azure

Feature	Oracle E-SBC on Azure
Hypervisor	Hyper-V
OpenStack	✓
Encryption	Software SRTP/TLS
Min. Requirements	3 cores/4vCPUs 16GB RAM 40GB
Shapes Available on Azure	F4s, F8s, F8s_v2, F16s, F16s_v2
Max Media Sessions*	2,100
Max. CPS	180

*MAX MEDIA SESSIONS NUMBERS ARE FOR STANDARD F4S SHAPE

E-SBC CRITICAL FEATURES & CAPABILITIES

FEATURE	CAPABILITIES
SECURITY	• Granular access control • IP address and SIP signaling concealment • Layer three through five topology hiding and signaling overload controls • IP telephony spam protection • Stateful deep packet inspection • Signaling and media encryption • FIPS Compliant including MSRP FIPS for v-ESBC • JITC Compliant and being validated.
INTEROPERABILITY	• SIP message normalization • Response code translation • SDP and Dual Tone Multi-Frequency (DTMF) manipulation • Number and uniform resource identifier (URI) manipulation • Header manipulation rules (HMR) • SIP / H.323 signaling interworking • Protocol interworking: Transmission Control Protocol (TCP), User Datagram Protocol (UDP) • Encryption interworking: Transport Layer Security (TLS), Mutual TLS, Secure Real-time Transport Protocol (SRTP), IP Security (IPsec) • Network address translation (NAT) and firewall traversal • IP address translation: private/public, IPv4/IPv6 • Transcoding • IETF standard SIP Recording (SIPREC) interface • Support for Microsoft ELIN Gateway and Avaya Personal Profile Manager proxy • RFC3389 – RTP payload for Comfort Noise

Related Products

The following products support Oracle Enterprise Session Border Controller:

- Oracle Enterprise Operations Monitor
- Oracle Enterprise Telephony Fraud Monitor
- Oracle Enterprise Communications Broker
- Oracle Communications Session Delivery Manager
- Oracle Communications Security Shield Cloud

RELIABILITY	• Standby SIP registrar with caching for remote site survivability • Stateful signaling and media failover • Quality of service (QoS) marking, virtual local area network (VLAN) mapping • Registration storm avoidance • Call rate limit enforcement • Trunk load balancing • Stateful session routing • QoS-based routingH.323 destination address based routing
REGULATORY COMPLIANCE	• Session prioritization for emergency services • IETF SIPREC interface • Call detail records (CDRs) with local or remote storage via RADIUS
COST MANAGEMENT	• Least cost routing • CODEC renegotiation
MANAGEMENT	• Embedded Oracle Enterprise Operations Monitor probe • Browser-based GUI • SIP monitoring and tracing tool • SNMP agent, XML configuration files, Syslog, SFTP, RADIUS interfaces • Subnet masks for SNMP • Secure WebGUI access with HTTPS • HEAT Templates • REST API Support for configuration and life cycle management

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