# SD-WAN Security Gateway Solution

Cyber criminals are getting smarter, leveraging highly sophisticated attacks, and adapting their tactics to exploit any weakness in any business. Branch offices are often targeted since they are in remote locations and are not staffed by the same IT or security experts found in headquarters site. Businesses need a branch office solution that is highly secure, provides the highest quality connections to the services, affordable, and has agile cloud management.

Oracle has partnered with Check Point to offer a highly secure SD-WAN gateway ideal for remote branch offices.   Companies looking to provide a branch office with superior network performance for business-critical applications with best of breed security protection can deploy the Oracle Talari E100 coupled with the Check Point CloudGuard.

SOLUTION

The Check Point CloudGuard Edge - a lightweight virtual image service chained to the Oracle Talari E100 SD-WAN platform. CloudGuard Edge has advanced threat prevention that can be centrally deployed and managed within minutes, making it an ideal security solution for branch offices. Integrated as part of a service chain with the Oracle Talari E100 SD-WAN, the CloudGuard Edge provides comprehensive threat-prevention security, zero-day protection, agile delivery, management and automatic security protection.
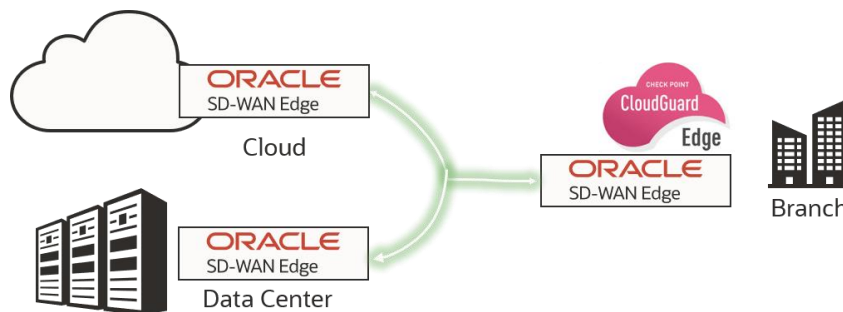
The Oracle Software Defined Wide Area Network (SD-WAN) solution engineers the network, applications, and cloud infrastructure for maximum business impact by increasing network capacity, providing failsafe reliability, and delivering a higher

Oracle and Check Point enable customers to:

- Simplify their branch office network and reduce their hardware footprint
- Ensure superior network performance over aggregated links
- Obtain next generation security and threat defense
- Easy-to-use, centralized or cloud orchestration
- Inbound and outbound traffic protection
- Highly scalable for branch office deployments and cloud connections

Oracle Talari E100

- SD-WAN edge appliance
- Scaled for a small- to medium-sized branch office
- Supports a total of up to 500 Mb/sec full-duplex across multiple WAN links

service chaining to:

- Check Point CloudGuard Edge
- Oracle Enterprise Session Border Controller.

quality of experience while lowering costs. The Oracle SD-WAN provides a high level of network security improving application performance with flexible easy service deployment.

Companies with large numbers of remote branch offices get industry-leading protection, superior network performance, and reduced operating and capital expense costs. Customers have full control of security policy and data, satisfying privacy and regulation requirements.

Services Chaining

The Oracle SD-WAN supports a direct connection for packets to flow directly to and from the SD-WAN to the Check Point CloudGuard Edge. This direct connection is also called a Service Chain – a virtual connection between two network or service functions. The Talari E100 platform has extra memory and CPUs to Service Chain a virtual image of CloudGuard Edge within the platform.

The E100 service chains the Check Point CloudGuard Edge is a small footprint virtual security gateway with advanced threat prevention that is an ideal security solution for branch offices. CloudGuard Edge provides a comprehensive threat-prevention security, zero-day protection, agile management and delivery.
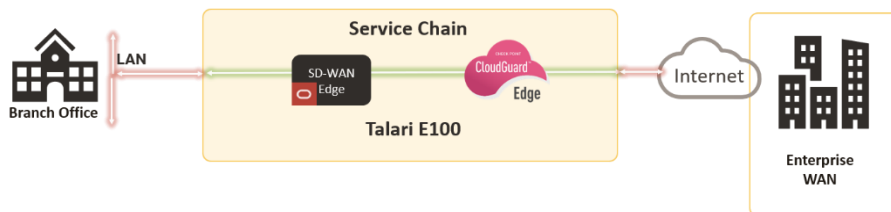
Check Point Advanced Threat Prevention

Check Point provides advanced threat prevention while reducing complexity and lowering the total cost of ownership. Check Point security products protects cloud and branch office assets from sophisticated threats with dynamic scalability, intelligent provisioning and consistent control across physical and virtual networks. The Check Point solution also includes Application Control and URL Filtering to enforce safe web use. IPS, Anti-Bot and Antivirus protect from known threats. HTTPS inspection safeguards from threats trying to hide inside encrypted HTTPS channels.

Furthermore, Check Point is a fully consolidated and connected cyber security architecture protecting on premises, cloud and branch networks as well as endpoint and mobile devices from advanced persistent threats. Threats identified on one device can be automatically propagated as an IoC (Indicator of Compromise) to protect your branch, mobile and cloud-hosted assets from the same zero-day threat.

Oracle SD-WAN

Deployed in thousands of sites across more than 40 countries, the Oracle SD-WAN product family provides market-leading, trusted, failsafe SD-WAN technology. Oracle SD-WAN delivers superior application reliability and resiliency while unlocking the benefits of branch consolidation.

- Increase resiliency and reliability
- Experience superior QoE
- Maintain high network availability
- Maintain continuous uptime for mission critical applications
- Reduce WAN legacy costs
- Deploy rapidly and easily
- Protect IT infrastructure, services, and applications with built-in security
- Increase bandwidth performance

Related Products

- Oracle SD-WAN Edge
- Oracle SD-WAN Aware
- Oracle Communications Enterprise Session Border Controller
- Oracle Communications Enterprise Operations Monitor

Related Hardware Appliances

- Oracle Talari E50
- Oracle Talari E100
- Oracle Talari D2000
- Oracle Talari D6000

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Management

CloudGuard Edge security gateways are deployed through the SD-WAN management console. This tight integration reduces deployment time, effort, and costs. When CloudGuard Edge is deployed on the SD-WAN, the CloudGuard Edge virtual security gateway is configured, automatically connected and ready to be centrally managed and monitored by the customer with Check Point's cloud-hosted SMP service, utilizing a Check Point Security Management Server, or Multi-Domain Server.

Managing the SD-WAN Security Gateway solution includes:

- centralized management access from any location

- initialize the SD-WAN-CloudGuard configuration

- perform ongoing WAN administration

- define and enforce consistent application policies

- configure and enforce security and firewall requirements

- perform optional on-prem SD-WAN Edge software upgrades

The Check Point cloud-hosted Security Management Portal (SMP) streamlines provisioning, maintenance and security policy and event management of tens of thousands of devices. Automating firmware updates and backups and setting security policy plans for common groups of CloudGuard Edge virtual security gateways greatly simplifies security management. CloudGuard Edge sends security logs to the SMP's central log repository. With the pre-defined central reports customers can easily see Infected Hosts, Prevented Attacks, Detected Attacks and Attack Trends.

Check Point Security Management consolidates security management in a single pane-of-glass for full threat visibility and control across your entire infrastructure. Oracle SD-WAN Orchestration Cloud is a multitenant, secure OCI SaaS application that manages devices that run the Oracle SD-WAN Edge software. As a SaaS solution, once access to Oracle SD-WAN Orchestration Cloud is granted, a customer can then leverage the service to centrally provision and monitor their SD-WAN devices regardless of where the devices and administrators are physically deployed.

Conclusion

Oracle SD-WAN integrated with Check Point delivers a secure access service edge with a next-gen firewall. Check Point and SD-WAN are not only managed from the cloud, but also receive real time advanced analytics and policy from the cloud. The solution promises simplified WAN deployment, improved efficiency and security, and to provide optimal network bandwidth.

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