Enclave Reference Architecture

Aptible Enclave® is an ISO 27001 certified, AWS-based container orchestration platform for deploying highly available, secure apps and databases into isolated cloud environments. Software teams use Enclave® to automate DevOps and security engineering best practices and requirements for HIPAA, ISO 27001, SOC 2, and other security frameworks.

1. Each Enclave VPC ("stack") gets its own isolated network, permitting Enclave Managed VPN and VPC peering connections.

2. Access to each stack is controlled by encrypted endpoints. TLS Endpoints support IP filtering. Backend access via SSH to a bastion layer is managed with granular, role-based API permissions and 2-factor authentication with FIDO U2F security key support.

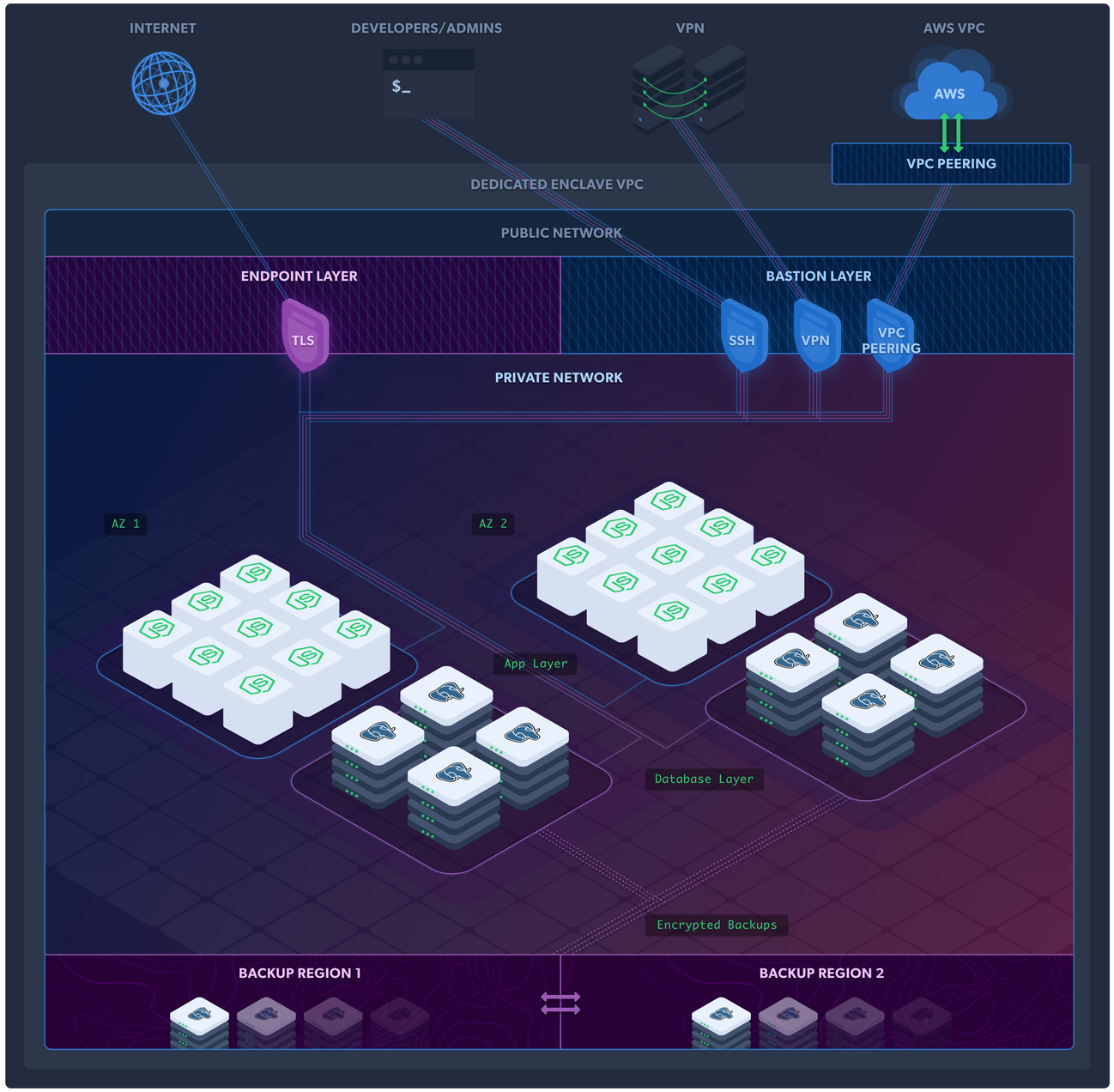
3. App and database Docker containers run in private subnets, protected from being targeted directly from the Internet. Internal Endpoints provide private networking inside the stack.

4. Enclave manages host hardening, automatic security updates and patching, network and host vulnerability scans, and host intrusion detection. Aptible Incident Response and SRE Teams are on call 24/7.

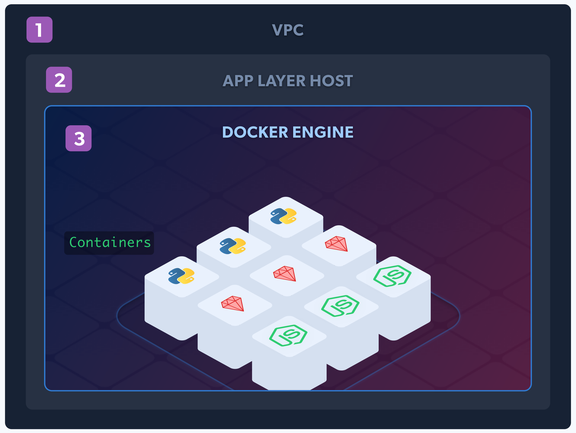
5. Fast, self-serve app and database scaling, safe deploys with automatic health checks and rollbacks, automatic Container Recovery, safe Memory Management, and automatic cross-AZ container scheduling increase resiliency and reliability.

6. Database disks are encrypted at rest and backed up automatically. Encrypted backups are distributed across geographic regions for redundancy. Databases are easily replicated or clustered.

7. Container, database, SSH session, and Enclave API logs provide high auditability.



Enclave® stacks can run in most AWS Regions. Aptible supports data security requirements for customers all over the world, including the EU, UK, Canada, Australia, Singapore, and more.



1. Enclave® secures the VPC networks and hosts with managed scanning, patching, and automatic security updates.

2. Enclave® App Security Scans integrate with AppCanary to identify vulnerable system packages in Docker images.

3. Customers are responsible for container image and application security.

HIPAA ISO SOC

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