

PALOALTO

PROFESSIONAL INDUSTRY TRAINING SYLLABUS

Master networking fundamentals
and build the skills needed to design,
implement, and troubleshoot
enterprise networks.



PROJECTS

REAL-WORLD
PROJECTS
TO BUILD PORTFOLIC
AND PRACTICAL
SKILLS.



HANDS-ON LABS

PRACTICAL LABS
WITH
STEP-BY-STEP
GUIDED EXERCISES.



INDUSTRY CERTIFICATIONS

PREPARE FOR
GLOBALLY
RECOGNIZED CLOUD
CERTIFICATIONS.T
O BUILD PORTFOLIC
AND PRACTICAL
SKILLS.



CAREER ROADMAP

STRUCTURED
ROADMAP
TO ACCELERATE YOUR
NETWORKING
CAREER.

- DESIGNED FOR FUTURE CLOUD ENGINEERS -



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PALO ALTO

NGFW-ENGINEER

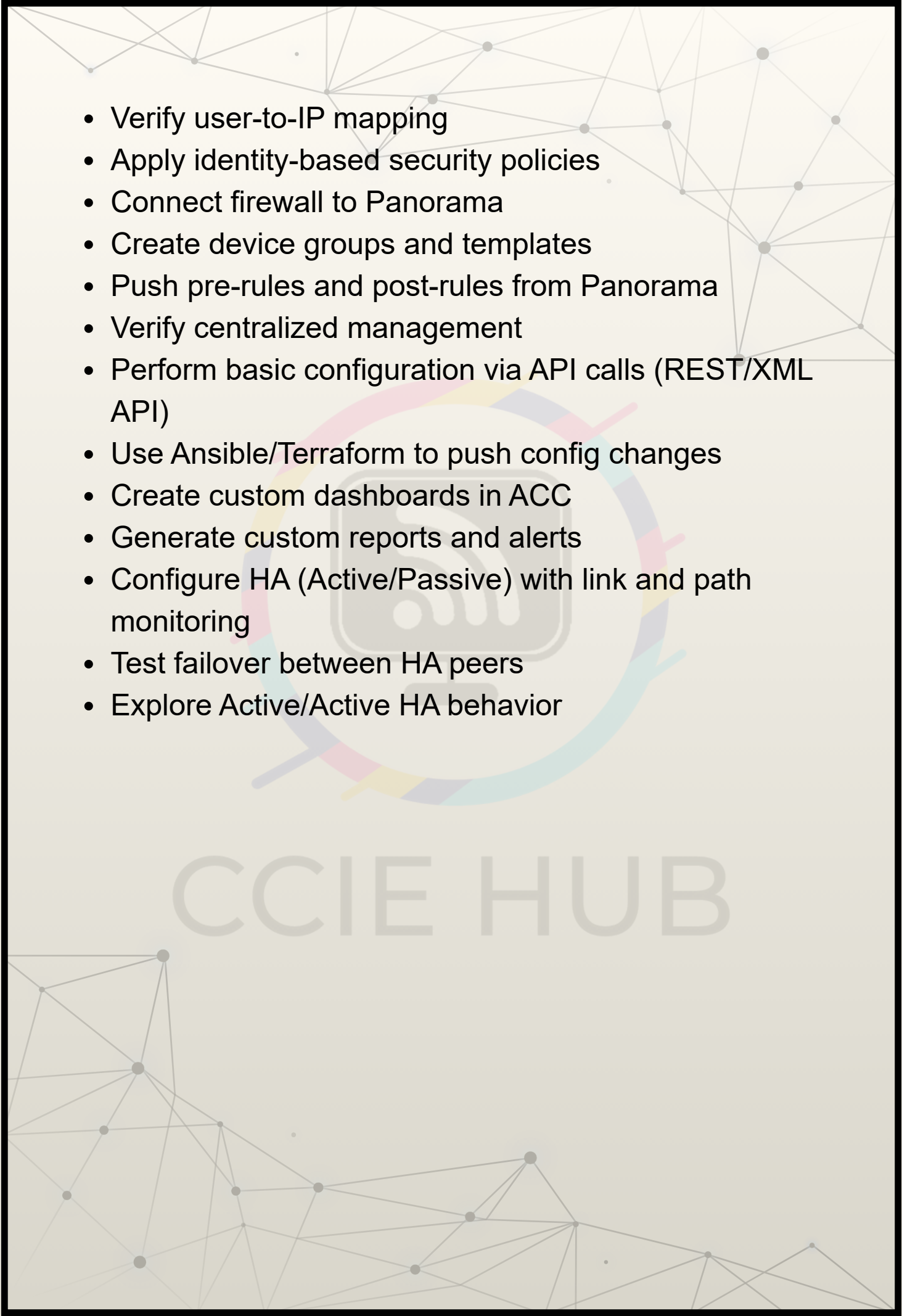
PALO ALTO NETWORKS NEXT-GENERATION FIREWALL ENGINEER

THEORY

- Platform & Architecture
- Packet Flow
- Key Features & Specifications
- Security components
- Firewall components
- Panorama components
- PAN-OS subscriptions and the features they enable
- Artificial intelligence operations (AIOps)/Telemetry
- Concepts of Interfaces (L2, L3, Virtual Wire, Tunnel, Aggregate Ethernet, Management interface)
- Zone architecture and segmentation
- High Availability (Active/Active, link and path monitoring concepts)
- Routing protocols and policies
- GlobalProtect (portal, gateway, authentication, split tunneling theory)
- IPSec VPN and GRE tunneling theory
- Authentication methods, roles, profiles, sequences
- Virtual Systems (VSYS) architecture, routing, inter-VSYS security

LAB

- Lab Setup
- Lab config
- Configure management interface & access (HTTPS/SSH/CLI)
- Initial device setup: hostname, admin users, license, updates
- Configure and verify Layer-3 interfaces
- Create zones and assign interfaces
- Configure security policies between zones
- Enable application visibility & App-ID in policies
- Test implicit vs explicit rules
- Configure static routes
- Implement dynamic routing
- Verify routing table and redistribution
- Configure GlobalProtect portal and gateway
- Add authentication profiles
- Test GlobalProtect VPN login & split tunneling
- Build IPsec site-to-site VPN tunnel
- Configure GRE tunnel and test connectivity
- Configure log forwarding profiles
- Certificates & Decryption
- Import root and intermediate CA certificates
- Configure certificate profiles
- Enable SSL Forward Proxy (decryption policy)
- Configure Forward Trust/Untrust certificates
- Test decrypted traffic inspection
- Configure User

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- Verify user-to-IP mapping
 - Apply identity-based security policies
 - Connect firewall to Panorama
 - Create device groups and templates
 - Push pre-rules and post-rules from Panorama
 - Verify centralized management
 - Perform basic configuration via API calls (REST/XML API)
 - Use Ansible/Terraform to push config changes
 - Create custom dashboards in ACC
 - Generate custom reports and alerts
 - Configure HA (Active/Passive) with link and path monitoring
 - Test failover between HA peers
 - Explore Active/Active HA behavior

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