

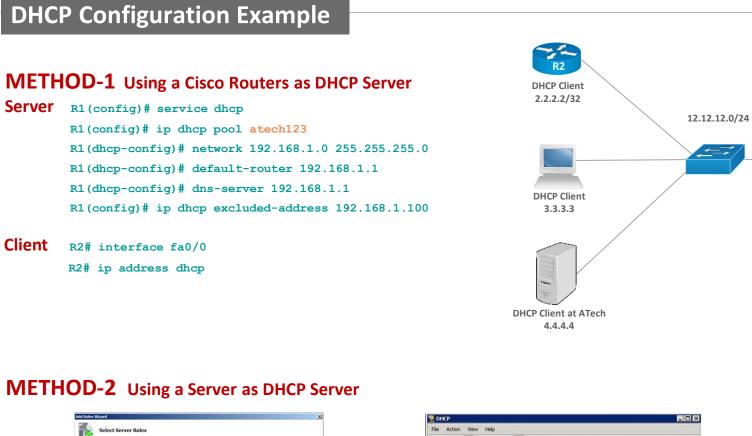
DHCP – Cheat Sheet – Part-3

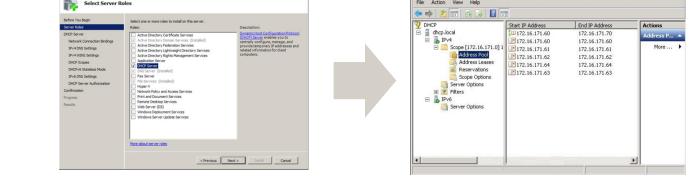
Version 1



DHCP Server

1.1.1.1/32





DHCP Security Threats	DHCP Security Mitigations
Recon Attacks: Expose important data for next level attacks planning DHCP MiTM Attacks: Corrupt DHCP Server makes the DHCP Clients set their Default GW as Attacker device	 Configure DHCP Snooping on L2 Switches to stop Corrupt DHCP Server to offering DHCPOFFER Use the DHCP Relay (Option82) for extra security in distributed DHCP server/relay environments Implement strict Network Admission Control Policies for users
 DHCP DoS Attacks: Attacker floods the DHCP Server with DHCP Queries from Bots & make it un-available for legitimate users DHCP starvation Attacks: DHCP requests are broadcasted with Spoofed MAC addresses causing the DHCP Pool to exhaust 	 Always place DHCP Server inside Firewall Always keep a secured back-up copy of the DHCP Database & cache file to restore in case of failure attacks Filter Layer3 IP Traffic to restrict illegitimate requests from specific visitor devices and certain IP addresses (use IP whitelists and blacklists) to avoid DHCP DoS Attacks Implement strict Firewall rules at Layer7 (e.g. Protocol violations, Request Limit violations,) to avoid DHCP DoS Attacks Continuously monitor, log & audit security events and pay attention to attack alerts to avoid DHCP DoS Attacks

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