

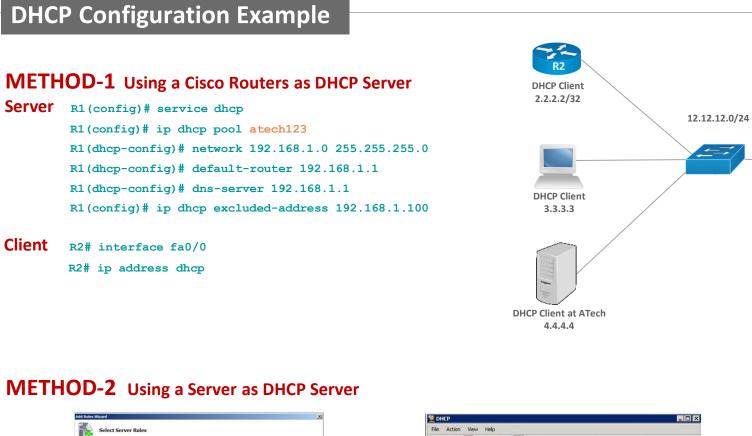
## **DHCP – Cheat Sheet – Part-3**

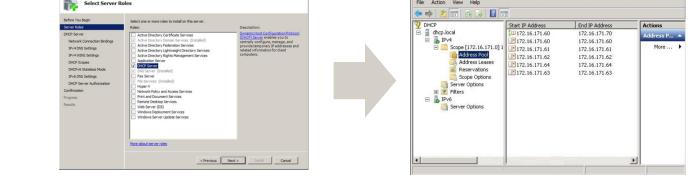
Version 1



**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	<ul> <li>Configure DHCP Snooping on L2 Switches to stop Corrupt DHCP Server to offering DHCPOFFER</li> <li>Use the DHCP Relay (Option82) for extra security in distributed DHCP server/relay environments</li> <li>Implement strict Network Admission Control Policies for users</li> </ul>
<ul> <li>DHCP DoS Attacks: Attacker floods the DHCP Server with DHCP Queries from Bots &amp; make it un-available for legitimate users</li> <li>DHCP starvation Attacks: DHCP requests are broadcasted with Spoofed MAC addresses causing the DHCP Pool to exhaust</li> </ul>	<ul> <li>Always place DHCP Server inside Firewall</li> <li>Always keep a secured back-up copy of the DHCP Database &amp; cache file to restore in case of failure attacks</li> <li>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</li> <li>Implement strict Firewall rules at Layer7 (e.g. Protocol violations, Request Limit violations,) to avoid DHCP DoS Attacks</li> <li>Continuously monitor, log &amp; audit security events and pay attention to attack alerts to avoid DHCP DoS Attacks</li> </ul>

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