## Cheatography

## Wireless Presentation Cheat Sheet by bdc via cheatography.com/197890/cs/41807/

I. Introduction to Wireless Technologies							
A. Evolution Of Wireless	Wireless has evolved significantly from 1G to 5G						
B. Importance in the Modern Era	Real-Time Data Exchange Technological Evolution Enhanced Productivity Ubiquitous Wi-Fi Enhanced Productivity Global Internet Connectivity						
C. Key Challenges	Attenuation or Signal Loss Movement/ Time variance Multipath Fading/Interference Reach						

## II. Fundamentals of Wireless

A. Wireless	The electromagnetic spectrum enables mobile communication through invisible waves.								
Transm- ission Basics									
B. Types of wireless	Infrared\Radio Waves\Microwaves	Short-range\Long-distance\Line-of-sight							
C. Wireless Network Components	Transmitter and Receiver\Ant- ennas and Signal Propagation- \Modulation Techniques	The transmitter converts information into signals &The receiver captures\Propagate through ground-wave, sky-wave, and line-of-sight modes\Transmitting data wirelessly in an interpretable form for receivers.							

III. Wireless ectures	s Network Aı	rchit-	IV. Wirele Protocols	ess Standards and s (cont)	V. Security (cont)	y in Wireles	ss Networks	VI. Emerging Technology	g Trends in Wireless (cont)
A. Infras- tructure Mode vs. Ad-hoc Mode	Between devices \Through an access point	slower \faster	Rabige resthict to be individual deartizens ranges (Reference by access points	Wireless Speaker , File Transfer Benefits: Faster ogy data transm-	B. Types of minimize Risks	Access, VPN Che Options, Access F Software	ds , Restrict Connect via eck Security Update Point , Use File Cautiously, ewall,	B. Edge Computing	dge computing in wireless networks represents a paradigm shift in how data is processed and services are delivered, bringing efficiency, speed, and new capabi-
B. Mesh Networks:	•	provide better covera speeds, and easy set		tivity.		Passwords, Encrypt Data, Maintain Antivirus Software,	C. Artificial	lities to various fields.	
Enhancing Connec- tivity C. Cellular Networks and their Evolution	1G, 2G ,3	3G ,4G, 5G and	A. Types of Risks	ity in Wireless Networks Piggybacking , Wardri- ving, Evil Twin Attacks, Wireless Sniffing, Unauthorized Computer Access, Shoulder Surfing, Theft of Mobile Devices	Technolog A. Wireless Connec- tivity in	Protect S ing Trends y The impact of the wireless	SID, in Wireless Increased Efficiency Enhanced	C. Artificial Intell- igence	it helps in addressing issues with Wi-Fi radios, client connectivity, and potential security threats.
IEEE s 802.11 tf (Wi-Fi) g w c id id id id id id id id id id id id id	s a tandard nat overns vireless ommun- cation in ocal area, llowing levices to onnect onnect ind exchange lata .	WEP, WPA, WPA2, and WPA3 are crucial for securing Wi-Fi networks			loT	in IOT on our lives:	Conven- ience , Enhanced Conven- ience , Person- alized Experi- ences		

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