Description - when device discover each other, they exchange information in XML format to leasn more about each other. These messages contain information like manyacture name, model name, services provided, etc . In nothing palend that enables identical like posterida a . and Contal de la code des severals of the protein and - After getting the information, the control point can call for the service to the URL by function calling. This is done by protocol known as Simple Object Access Protocol (SOAR) that passes xML manage · Event Notification - Greneral Event Notification Architecure or GENA is used to notify about event in UPAP. - Those mensages are also sent in XML · Presentation website - A device contains a manujacture device for URL for presentation which is used by control point to retrieve information. (i) when a device is added to a actuary 24 who Advantages (i) It allows real Plug n Play (ii) An Idead architecture for home devices and protocol (iii) can be used by NAT Troversal or Firewall Punching Disadvantages (i) Control point don't require any authentication, herce any program on pe can ask to forward UPAP poot (i) Any malicious program on your network can use upot in the same way a legitimate program uses it.

6	XMPP (980) toolean feelent (co. R.P.)
	stands for Extensible Messaging Presence Protocol.
	protocol for streaming xml elements over network in order to
	exchange menages and injormation.
17.04	mainly used by instant memaging applications like whatsApp.
	XMPP means it was a second of the second of
alida	X: X for Extensible. XMIP is open source project which can
	be charged or esitended acc to the reg.
French	m: xmpp is designed for sending messages in real time.
	It has very effecient push mechanism composed to other
7	all graphotocol. Manager 980) to mentantidas along and
	P: determines whether you are online or offine. It indicates the
ast Bu	State.
	P: XMPP is a protocol, that is, set of standards that
l- l-vo	allow systems to communicate with each other.
	Advantages Co 144 40 x mpl sorver
	(i) free b decentralized, i.e., onyone con set up xmll server
	(ii) based on open standard
	(iii) Security is supposted via 3ASL & TLS
	(iv) & Flouible, XML bosed & can be extended.
7.	" Madrin Trender Control Tolerate Trees "
	This protect is useful the face of the constitute of
	This partner is each that the connection with a sentent
	and and marries adversales for delibera a si tr
27 40 5	and recteur manage on client
	Makes easy the communication between resultiple desired
	Same Charlet and and
	(in marked to marker prince) i.e. provides commentation
	the death salt
	the day of the single to the out the
	The same of the sa

	dotto to otion
(2000)	Ricks to Line Laterday to Laterday to Laterday to the laterday of the laterday
	Wheeler Tol Medicine to belief
	Security Vulnerabilities
	- Weak authentication, encryption, and insecure communication protocols
7 6 AS	can expose device to hacking, data breaches, and unauthorized
	access. And the state of the st
(îi)	Data Privacy Concern
	- 101 devices collect vost amount of acra Trom beison and
	wex Interaction gaising privacy concern about collection, storage
	and usage of this pessonal data. Unauthoxized access can lead
on Jasti	to privacy violation, and surveillance issues.
(iii)	Data Integrity and Trustwoothiness
	- Ensuring the integrity and trustworthiness of lot data is
1/33	exential. Data tamposing and monipulation can lead to lack
0	loop of loteropexability
(IV)	AULE DI DICEOPCONO.
422	- Interoperability challenges can arise when IoT devices and system from different vendor can not wary work together.
, -	Don A: - A Di-h
(V)	- 10T deployed systems may face operational risk such as
1000 100 100 12 L	system failure, network outrage, and performance issues
(18)	Swally Chain Rick
(VI)	- lot devices vely on complex supply chain involving multiple
	supplies and manujactuses compromising integrity
(V) 11	Regulation and Complience Challenges
(-11)	- Conditions with xegulations and standards, such as track
	portection law con poses challenge for IoT deployment
THE PERSON	

	Modes of attack
(1)	Denial of Service (DoS) and Destributed Denial of Service (DDOS)
	- Altackers can overwhelm lot networks or devices,
40	causing them to become unresponsive
	Mon - in - the - middle (mitm)
has is add	- Attacked can intercept communication between Int devices or served and can steal or manipulate the data.
2.12	
(lii)	Physical Attacks attackers attackers
h-ri-	- Direct access to IoT devices can allow byparates to
	bypass security measure steal data.
(IV)	Software Exploits
	- Vulnerabilities in lot device firmworke can be emploited to
(.)	gain access as control.
	Ransome wore Attacks
d)	- lot devices can be hacked by ransomwere locking the
6.2	west out unloss a ronsome is paid.
	Eaves dropping
	- by capturing data for packets in transits, attackers
	can gain access to sensitive data
	Supply Chain Attack
Aug.	- Supply chair attacks vulnerabilities in manyacturing, distribution
	or procurament process of lot devices.
	Org. Dupply Chain Kick
st di-	a children soly on complex about Tel
	dispetal prising contraction been saligged
	Cult Replainey and Compliance Challeges
atu.	a to doug thinkered bod british by and grad and
-	anyther tot station of the testing of the total contraction