



Task 3

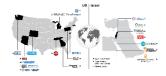
Data Collection and Aggregation

Task status





The Task Overview - Recap

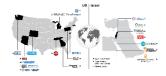


- Task Leader ASU
- Participants ASU, BGU, OTORIO, DK Innovation, DLC, Nexant, Delek, Arava
- Task Goal Provide reliable & comprehensive IT/OT datasets that will include Cyber attacks simulated in various of ways and logged 360°
- Task objectives Lab environments operations, Advisory emulation + Datasets generation

How -

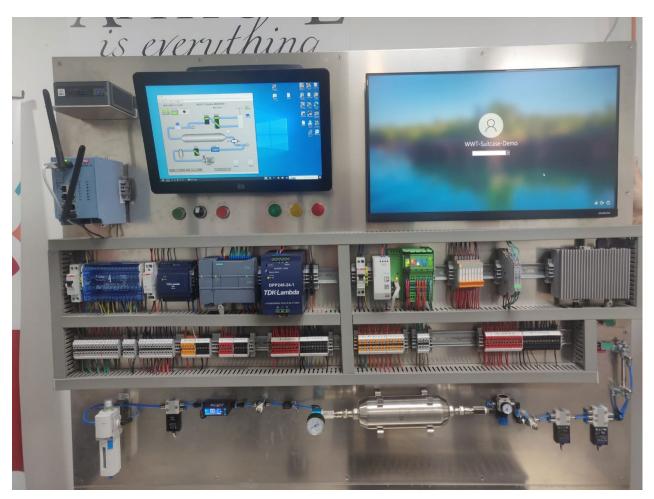
- Setting up multiple lab environments
- Setting up multiple sensors to monitor the network from different aspects
- Setting up RAM² as central logging system + build necessary plugins
- Execute live attack scenarios

What's been Done - This Q



- √ Attack scenarios for Delek US final drafts
 - Synced with Task 2 and Task 4 (Also MITRE)
- ✓ Started implementation of missing abilities in Caldera (implant)
- √ RAD incorporation in the lab
- ✓ Meptagon
 - Physical visit + kickoff workshop with BGU Done
 - Next steps and small modifications in order to make it full IT/OT lab in progress
 - Small hardware modifications and additions
 - Attacks implementation
 - Received project file of S7-1200 + Cimplicity SCADA file





Abilities from the Delek Scenarios (draft)

	Α	В	С	D	E	F	G	Н
	Use case	Ability name	Description	Options	Requirements	Effort / Threat level	TTP type	TTP 1
2	Trisis - 1	Watering hole (OT site)	A user is downloading a sandcat agent from an OT site	* Easy - agent is "as is" in the website, * Medium - improvement - implanted inside another 'legit exe' * Possible - exploitation of browser? * Easy - Macro Office Document	Site needs to be opened in the Firewall Possible - SMTP server.		initial Access	T0817 I
	Trisis - 1	Phishing mail	A user is installing a sandcat agent from malicious macro in doc file	* Possible - Office CVE	improvement - better email provider for the attacker		initial Access	T0865
	Trisis - 1	Supply Chain Compromise	A user is installing a sandcat agent embedded in python/apt package	* Easy - implant agent installtion in python package * Hard - infect apt package			initial Access	T0862
5	Trisis - 1	Agent Persistence	Set Pers	OT DMZ	RAD	RAD		
i	Trisis - 2	Persistence on a remote machine - Create a new Windows admin user	Creates prompt.		RAD	/AD		
	Trisis - 2	OT persistence	Set pers downgra	miletings disacker		Control	level	
	Trisis - 2	Privilege Escalation	Escaleti perform		vm (JT)	VM VM		a -
	Trisis - 2	Evasion Technique	Evasion Delek net	paloalto" DB Eng. Station		SCADA HM	ES	RAD
0	Trisis - 2	Network Discovery	locating their tary		<u> </u>			
1				Switch IIIIII CISCO		Switch DELL	7	W.
	Trisis - 2	Search for OT files / stations	Search 1 extensic	Phy. Lab 1 - Cell 1 RAD Rockwell Automatic		Phy. Lab 2 - Cell 2		RAD
2						ТВО		
	Trisis - 2	Lateral movement	Moving through the environment	using remote services like RDP	creds		movement	
				* Easy - direct access to OT / valid account to FW / Brute				

Plans for the next Q



- ✓ Delek lab completion
 - Hardware configuration, lab setup (Users, HMIs, PLCs...)
 - Process engineering + simulation (Meptagon)
- ✓ Execution of attacks & data collection -
 - Delek US basic
 - Meptagon Full
- √ Complete set of abilities (without process manipulation)
- √ Grid lab next steps
- ✓ Possible additional labs (DLC, Arava...)