

Task 3

Data Collection and Aggregation

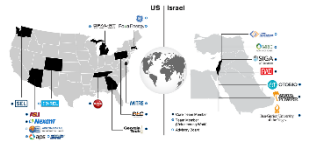
Task status



8/24/2022



The Task Overview - Recap

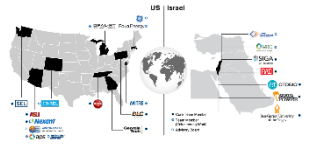


- Task Leader - ASU
- Participants - ASU, BGU, OTORIO, DK Innovation, DLC, Nexant, Delek, Arava
- Task Goal - Provide **reliable & comprehensive IT/OT datasets** that will include Cyber attacks simulated in various of ways and logged 360°
- Task objectives - Lab environments operations, Advisory emulation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



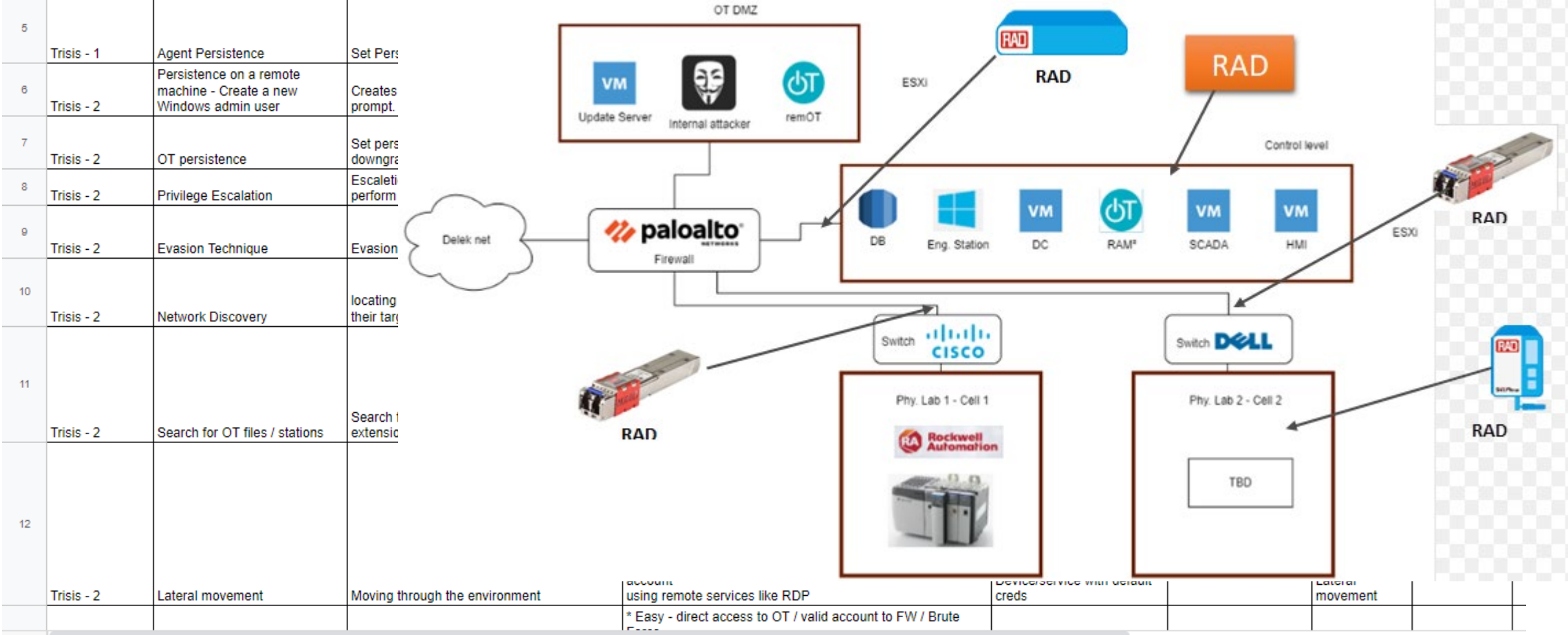
- ✓ Attack scenarios for Delek US - final drafts
 - Synced with Task 2 and Task 4 (Also MITRE)
- ✓ Started implementation of missing abilities in Caldera (implant)
- ✓ RAD incorporation in the lab
- ✓ Meptagon
 - Physical visit + kickoff workshop with BGU Done
 - Next steps and small modifications in 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

Some pictures from our visit in Meptagon's lab

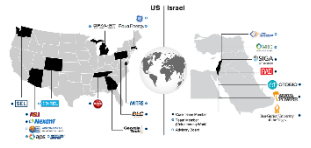


Abilities from the Delek Scenarios (draft)

	A	B	C	D	E	F	G	H	T
1	Use case	Ability name	Description	Options	Requirements	Effort / Threat level	TTP type	TTP	
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?	Site needs to be opened in the Firewall		initial Access	T0817	D
3	Trisis - 1	Phishing mail	A user is installing a sandcat agent from malicious macro in doc file	* Easy - Macro Office Document * Possible - Office CVE	Possible - SMTP server, improvement - better email provider for the attacker...		initial Access	T0865	S
4	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	S S Tr



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...)