



U.S. ARMY COMBAT CAPABILITIES DEVELOPMENT COMMAND DATA & ANALYSIS CENTER (DAC)

Certificate Generator

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BACKGROUND



Identified Issue:

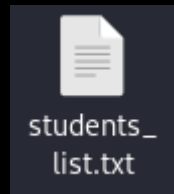
- When presenting Professional Development Events (PDEs), cybersecurity analysts give out certificates of participation to students, faculty, and other cybersecurity professional. The creation of such certificates can be time consuming whenever there is a considerable number of people attending the workshop.

Proposed Solution:

- A set of Python Scripts to create, organize, and keep track of all attendees. This is a command line script with friendly menus to generate all the needed certificates with unique codes for each of the events; this becomes useful in case another entity requires a verification of authenticity for any of the given certificates.



CERT-GEN SYSTEM



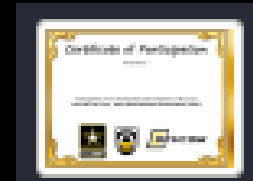
List of
Participants

+



Python Scripts

=



Certificate

PROCESS:

- 1) A list of participants is filled out (name, last name, and email).
- 2) The Python Scripts take care of the creation of all the certificates with unique codes.
- 3) Certificates are organized and placed on specific folders.
- 4) A file keeps track of all the events and attendees.



ERB-GEN GUI



```
root@kali: ~/Desktop/cert-gen
root@kali:~/Desktop/cert-gen# python3 create_certificate.py 1
Hello! Welcome to the Certificate Generator

Select Event:
[0] ctf
[1] sqli
[2] mitm
[3] slowloris
[4] ecybermission
[5] gems
Event #: 2
```

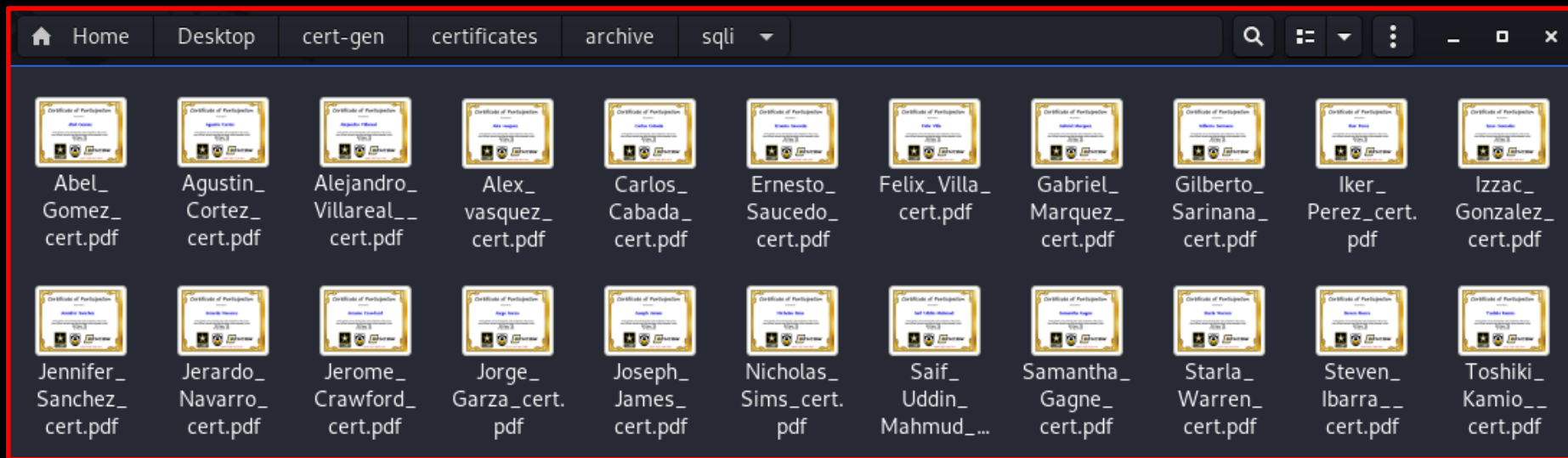
- 1 – To run the main Python Script, open a Terminal window and type:
`python3 create_certificate.py`
- 2 – A small menu will provide the user with the available events.
Select the one that applies to your Professional Development Event (PDE)



CERTIFICATES OF PARTICIPATION



3



3 – All the generated certificates of participation will be organized on their corresponding folder



CERTIFICATES OF PARTICIPATION



- 4 – Name of Participant
- 5 – Name of Event, place, and date
- 6 – Unique Code



CERTIFICATES OF PARTICIPATION



Open

database_DO_NOT_DELETE.txt
~/Desktop/cert-gen

1	COUNT	CODE	DATE	EVENT	LOCATION	NAME	EMAIL
2	1	QYKXE-RGEF-TND5-U2M9	12/19/2019	SQLI	El Paso, TX	Ernesto Saucedo	ernesto.saucedo@yahoo.com
3	2	Q6U2U-PZXM-CJPB-2575	12/19/2019	SQLI	El Paso, TX	Izzac Gonzalez	izzacg@yahoo.com
4	3	Q3MY4-WXQH-VBEL-J0KC	12/19/2019	SQLI	El Paso, TX	Gabriel Marquez	gabriel.marquez@gecu.com
5	4	QU563-XXPN-GAH4-48AJ	12/19/2019	SQLI	El Paso, TX	Felix Villa	villafra@elpasotexas.gov
6	5	QXVJ8-L7RV-B7DL-CDMZ	12/19/2019	SQLI	El Paso, TX	Jorge Garza	garzajc@elpasotexas.gov
7	6	QRV5U-SJ2T-6BAB-CL9K	12/19/2019	SQLI	El Paso, TX	Jerome Crawford	jcrawford@firstlightfcu.org
8	7	QFE4K-NC9X-5Q9N-TYVQ	12/19/2019	SQLI	El Paso, TX	Gilberto Sarinana	sarinanag@yahoo.com
9	8	Q5P7H-7UMB-7Y37-8JAS	12/19/2019	SQLI	El Paso, TX	Jerardo Navarro	jnavarro480@gmail.com
10	9	QLHG7-TCC3-4GJK-8V7K	12/19/2019	SQLI	El Paso, TX	Starla Warren	starlawarren@aol.com
11	10	QFDH8-PT68-FU8W-6VVA	03/05/2020	SQLI	El Paso, TX	Jennifer Sanchez	jaharrison@miners.utep.edu
12	11	QRMWJ-TBAV-38CZ-3PEX	03/05/2020	SQLI	El Paso, TX	Nicholas Sims	nhsims@miners.utep.edu
13	12	Q04VF-9YYZ-J5K5-U6D9	03/05/2020	SQLI	El Paso, TX	Joseph James	jmjames9@miners.utep.edu
14	13	Q3SSC-779G-4CLH-CP8G	03/05/2020	SQLI	El Paso, TX	Alejandro Villareal	avillareal35@gmail.com
15	14	QBB7U-2Y85-24XZ-GYK	03/05/2020	SQLI	El Paso, TX	Samantha Gagne	sjgagne@miners.utep.edu
16	15	Q6NX6-G4WE-M5FF-5XGL	03/05/2020	SQLI	El Paso, TX	Alex vasquez	avasques31@miners.utep.edu
17	16	QE2BT-GGM5-8KKY-N7VX	03/05/2020	SQLI	El Paso, TX	Carlos Cabada	ccabada2@miners.utep.edu
18	17	QLRKK-VMUA-JLC5-967W	03/05/2020	SQLI	El Paso, TX	Agustin Cortez	ajcortez2@miners.utep.edu
19	18	Q4UZ2-ZTGW-VB04-2RG7	03/05/2020	SQLI	El Paso, TX	Toshiki Kamio	tkamio@miners.utep.edu
20	19	Q5NP6-W5EZ-KHG2-H7VA	03/05/2020	SQLI	El Paso, TX	Saif Uddin Mahmud	smahmud4@miners.utep.edu
21	20	QKHKP-QGVZ-P3K9-MPUA	03/05/2020	SQLI	El Paso, TX	Steven Ibarra	sibarra7@miners.utep.edu
22	21	QAUUY-7URS-HSAT-KPFM	03/05/2020	SQLI	El Paso, TX	Abel Gomez	agomezrive@miners.utep.edu
23	22	QV3VX-3SCM-2D9V-UCCU	03/05/2020	SQLI	El Paso, TX	Iker Perez	ikersperez@gmail.com
24	23	CFAUG-YEQQ-EMFK-FZUJ	02/27/2020	CTF	El Paso, TX	Inez Lopez	ilopez23@miners.utep.edu
25	24	CTYLZ-QQYN-FMDX-ELWC	02/27/2020	CTF	El Paso, TX	Joe Jones	jmjones9@miners.utep.edu
26	25	CVFEN-URPV-TVKF-LEWY	02/27/2020	CTF	El Paso, TX	Edgar Mejia	esmejia@miners.utep.edu
27	26	CGKMJ-MZXB-TZZE-SAKV	02/27/2020	CTF	El Paso, TX	Alberto Medina	amedina24@miners.utep.edu
28	27	CRXUK-HWRX-RSWS-JARG	02/27/2020	CTF	El Paso, TX	Juan Marquez	jamarquez8@miners.utep.edu
29	28	CELFU-YLNP-PXYB-XWXZ	02/27/2020	CTF	El Paso, TX	Ricardo Tabares	retabares@miners.utep.edu
30	29	CTEGD-MLSK-ZPMC-NYLV	02/27/2020	CTF	El Paso, TX	Aaron Zambrano	aazambrano2@miners.utep.edu
31	30	CHHTU-LNWZ-WDZB-HZZY	02/27/2020	CTF	El Paso, TX	William Shaghoury	wmshaghoury@miners.utep.edu
32	31	CAMQV-EQMV-KTYH-RAZC	02/27/2020	CTF	El Paso, TX	Andres Rios	arios14@miners.utep.edu
33	32	CSBAE-GUPN-WLWP-UZKM	02/27/2020	CTF	El Paso, TX	Eduardo Lopez	elopez65@miners.utep.edu
34	33	CUULT-GSHD-EHVB-FECQ	02/27/2020	CTF	El Paso, TX	Daniel Corona	dcorona3@miners.utep.edu
35	34	CFMDC-JGWH-CYGM-MKGH	02/27/2020	CTF	El Paso, TX	Eddie Solis	esolis2@miners.utep.edu
36	35	CYSYF-UEBG-HKAJ-ZNFC	02/27/2020	CTF	El Paso, TX	Carlos Diaz	cdiaz46@miners.utep.edu
37	36	CSKBT-FKAS-MAAA-XPXQ	02/27/2020	CTF	El Paso, TX	Miguel Ortega	morte214@epcc.edu
38	37	CWBLJ-XCAP-GJKN-UMLB	02/27/2020	CTF	El Paso, TX	Joel Moya	jmoya5@miners.utep.edu
39	38	CFTVK-XGWA-FFUH-FCLY	02/27/2020	CTF	El Paso, TX	Hunter Reed	jreed5@miners.utep.edu
40	39	CBCQE-AUET-ULCJ-UGTZ	02/27/2020	CTF	El Paso, TX	Alejandro Vera	avera6@miners.utep.edu
41	40	CMSUM-SZGZ-XVRF-YJNU	02/27/2020	CTF	El Paso, TX	Christian Ibarra	danicristian58@gmail.com
42	41	COARY-EYHC-CCFM-UJVG	02/27/2020	CTF	El Paso, TX	Andres Meza	ameza18@miners.utep.edu
43	42	CCGNP-RRQF-ZKXR-MMVU	02/27/2020	CTF	El Paso, TX	Luis Ferrero	lcferreropa@miners.utep.edu
44	43	CFWRA-GZHN-RNRF-RUEP	02/27/2020	CTF	El Paso, TX	Alberto Amezcua	aamezcua@miners.utep.edu
45	44	CUQBY-DGWB-KXXV-AHLH	02/27/2020	CTF	El Paso, TX	Paola Perez	paperez5@miners.utep.edu
46	45	CGSAC-MCPD-LFYV-JKSZ	02/27/2020	CTF	El Paso, TX	Kevin Alderete	kaalderete@miners.utep.edu

7

7 – File that keeps track of all participants



CERTIFICATES OF PARTICIPATION



- 8 – To run the certificate verifier, open a Terminal window and type:
python3 cert_verifier.py
- 9 – Enter the Code you want to verify
- 10 – Verify if Code is valid or not



CONTACT INFORMATION



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