



## Final Event Application

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# Hack-A-Sat 4 Final Event Application

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## Hack-A-Sat 4 Final Event Application

**Submission of this application is not required to compete in the HAS4 Qualification Event.**

### Instructions:

Each of the five Hack-A-Sat 4 (HAS4) Finalist and three Alternate teams (hereafter “entrant”) must complete this Final Event Application per these instructions:

- Application Parts 1, 2 and Appendix A (Eligibility Verification) shall be submitted no later than **April 24, 2023** (3 weeks after quals) to receive a \$10K Qualification Prize. All items shall be submitted either as a password protected PDF to [shout@hackasat.com](mailto:shout@hackasat.com) with password provided over Discord, or via regular mail.
- Application Part 3 – Final Event Participation Agreement shall be submitted via email to [shout@hackasat.com](mailto:shout@hackasat.com) no later than **June 2, 2023** to confirm participation in the HAS4 Final Event.
- Appendix B, C and D are optional, and can be submitted up until the HAS4 Final Event

Should an entrant otherwise qualify for the Final Event but not complete this Application on time, that entrant will be disqualified and not eligible for further participation.

### Guidelines:

Only one application per **entrant** should be submitted.

An entrant may be an individual competing alone or a team representing an academic institution, business, or group of individuals. **Each entrant must include at least one U.S. citizen or permanent resident.**

For each entrant, a single individual must be identified as the **Entrant Official**. The Entrant Official must be a U.S. citizen or a permanent resident, must speak English and will serve as the official **administrative** point of contact for communications with the HAS organizers.

For each team, a single individual must be identified as the **Team Leader**. The Team Leader must speak English and will serve as the official **technical** point of contact for communications with the HAS organizers.

**The Entrant Official and the Team Leader may be the same individual.**

## Hack-A-Sat 4 Final Event Application

### Eligibility

The HAS4 Final Event is open to all individuals, nationalities, ages, academic institutions, and business entities, **subject to the caveats outlined in the HAS4 Rules**, which are available at [www.HackASat.com](http://www.HackASat.com).

Each Winner of monetary awards will be required to sign and return the Participant Eligibility Verification Form (Appendix A) with their Final Event Application, in order to claim a prize.

### Prize Payments:

The United States Air Force will be using a third-party organization to distribute cash prizes to winning teams. Prizes awarded under HAS4 will be paid in United States Dollars by electronic funds transfer to the bank account specified by the winning teams' entrant official (referred to as "participant" in this section). If the winning team has multiple members, it is the responsibility of the participant to determine the subsequent division of any prize money.

Upon receipt and verification of participant eligibility from Appendix A, payment information forms required will be emailed to the team. Participant bank account information and tax information must be provided to the third-party organization using the third-party's portal.

For Domestic payment, the participant must provide:

1. A bank letter or cancelled check, and
2. A W-9 Request for Taxpayer Identification Number and Certification form

For International payment, the participant must provide:

1. A bank letter with international wire information, and
2. A W-8BEN Certificate of Foreign Status of Beneficial Owner for United States Tax Withholding and Reporting (Individuals) form.

### Team Changes:

If at any time, the Entrant Official or Team Leader changes, a Change to Team Form, at Appendix B, must be submitted to the HAS4 organizers for approval. Only the Entrant Official is authorized to change the Entrant Official or Team Leader. In the case of an Entity, if its Entrant Official changes, the new Entrant Official must be a current employee of the Entity. Any change must be approved and recognized by the HAS4 organizers in writing prior to taking effect.

## Part 1: Team Information

### 1. Check one of the following for Entrant type:

Team of Individuals \_\_\_\_\_ Entity \_\_\_\_\_

### 2. Qualification Event Registration Information:

Username:

Email Address:

Qualification Event Confirmation Number:

### 3. Team Information:

Team Name\*:

Team Sponsor (if applicable):

Official Affiliation (if applicable):

Social Media Links/Handles/Hashtags (if applicable):

Team email address:

### 4. Entrant Official Contact Information

Entrant Official Name:

Entrant Official Street Address:

City, State, Postal Code:

Country

Phone Number:

Cell Phone Number:

Email Address:

**5. Team Leader Information:**

Team Leader Name:

Team Leader Street Address:

City, State, Postal Code:

Country:

Phone Number:

Cell Phone Number:

Email Address:

**6. Team Members: Please list the full name of each team member. Please use Appendix E for any additional team member names.** There is no limit to the size of your team:


**7. Are there any members of your team who are under the age of 18?**

Yes\_\_\_\_ No\_\_\_\_

**If yes, please list the full names of all team members who will be under the age of 18 at the completion of the final event. A Parent or Legal Guardian Consent Form and Liability Waiver (Appendix C) must be submitted for each team member who is under the age of 18.**

_____	_____
_____	_____
_____	_____
_____	_____

**8. Entrant Status: Initial next to all items under Option 1 or 2 (select one Option only):**

**Option 1 (Team of Individuals):**

Entrant Official is a U.S. citizen or Permanent Resident initial \_\_\_\_\_

Entrant possesses a current U.S. taxpayer identification number (TIN)  
(e.g., Social Security Number, Employer Identification Number, etc.) initial \_\_\_\_\_

**Or, Option 2 (Entity):**

Entrant is an Entity incorporated in the United States initial \_\_\_\_\_

Entrant Official is a U.S. citizen or Permanent Resident and speaks English initial \_\_\_\_\_

Entrant possesses a current U.S. taxpayer identification number (TIN)  
(e.g., social security number, employer identification number, etc.) initial \_\_\_\_\_

**9. Payment Information:** Payments will be received in a (pick one):

US Bank Account \_\_\_\_\_ International Bank Account \_\_\_\_\_

**By signing below, the Entrant Official certifies that all of the information contained in this document is accurate to the best of his/her knowledge.**

\_\_\_\_\_  
**Signature of Entrant Official**

\_\_\_\_\_  
**Date**

## Part 2: Liability Waiver

By submitting its application and acceptance to the HAS4 contest, all Teams and Participants AGREE TO ASSUME ANY AND ALL RISKS AND WAIVE CLAIMS AGAINST the Federal Government and its related entities, except in the case of willful misconduct, for any injury, death, damage, or loss of property, revenue, or profits, whether direct, indirect or consequential, arising from participation in this prize contest, whether the injury, death, damage or loss arises through negligence or otherwise.

By registering and/or participating in the HAS4, each individual (whether competing singly or in a group) or entity agrees to indemnify the U.S. Government from any and all liability and costs arising from or related to the participant's participation in the contest.

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Signature of Entrant Official

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Date



### **Part 3: Final Event Participation Agreement**

This agreement governs acceptable codes of conduct during the HAS events.

**Acceptance of this Final Event Participation Agreement is mandatory for participation in the Final Event.** Execution of this agreement indicates:

1. **Acceptance of the HAS4 Rules document.** Each individual (whether participating singly or in a group) and entity participating in this contest must comply with all terms and conditions of the HAS4 Rules document, and participation in this contest constitutes each participant's full and unconditional agreement to abide by these rules. Winning is contingent upon fulfilling all requirements herein.
2. **Agreement to participate in HAS4 Finals in-person at DEF CON 31.** HAS4 Finals presents a unique opportunity for teams to participate in the world's first CTF in space. Given the limited availability of the on-orbit Moonlighter satellite, the HAS4 organizers want to ensure that teams that qualified as finalists are committed to playing HAS4 finals and to be a part of the in-person contest experience at DEF CON.

**HAS organizers are not responsible for travel costs and/or travel visas associated with participating in HAS4 Finals.**

#### **Intellectual Property**

All technical papers and provided supporting materials as outlined above will be delivered to the Air Force and Space Force with Government Purpose Rights as defined in 48 CFR § 252.227-7013 – Rights in technical data – Noncommercial items. The Air Force and Space Force will only use the materials submitted by teams for official government purposes.

The Air Force and Space Force do not authorize or consent to participants infringing on any U.S. patent or copyright while participating in the HAS4.

Data submitted for contest participation, during the Qualification or Final Events, shall be released into the public domain at the sole discretion of the Air Force and/or Space Force. This includes *all* data emitted by a team, including but not limited to interactions with the scoring system, interactions with the competition environment, and raw packet capture data.

#### **Disqualification**

This is a game and the contest is expected to be challenging, competitive and fun. In order to maintain the integrity and fairness of the contest and to ensure the game remains competitive, the following rules must be followed:

- Utilizing or engaging in non-specific denial-of-service (DoS) attacks, such as packet flooding for network denial of service, against other competitors is strictly forbidden
- All patches to open-source software must be made available according to open source license guidelines
- Any vulnerabilities discovered in open-source software must be made available to the public via a public disclosure process
- No physical coercion or intimidation is allowed
- Any acts of sabotage, tampering, misuse, attacks, or use without consent of the contest organizers property, contest infrastructure, equipment, software, or items that pertain to the contest that are outside of the contest environment are expressly forbidden

Any violations related to the above may result in immediate disqualification. Due to the nature of the contest infrastructure, exceptions will be examined on a case-by-case basis at the discretion of the HAS4 organizers. The HAS4 organizers reserve the right at any time to update these rules before and during the contest to maintain the integrity and fairness of the contest.

The HAS4 organizers reserve the right to warn and subsequently disqualify a participant whose actions are deemed to violate the spirit of the contest for any reason, including, but not limited to, the violation of relevant laws or regulations in the course of participation in the contest.

#### **Notice of Publicity, Photograph, Record Video and Sound, and Film**

All teams that participate in the HAS4 contest may be listed on the HAS website to enable the event to be tracked by interested members of the public. Public information may include performance results from HAS4 events and general information updates. The names and photographs of the Finalist teams may be posted on the HAS website, featured on the Air Force's and/or Space Force's websites, newsletters, social media, other outreach materials, and released to the media.

During the Final Event, equipment may be used to photograph, record video and sound, and film footage in connection with the production of documentary content by third-party producer(s). Your presence (physically or virtually) at the event is an acknowledgment that you have been informed that you may be photographed, video recorded, and filmed; and, that you grant permission for your likeness and voice to be used without compensation, credit, or other consideration in any media now known or hereafter devised, in perpetuity and throughout the universe, to include the advertising and publicity thereof. If you do not wish to be subject to the foregoing, please do not attend the event.

## **Consent to Monitoring**

The HackASat.com public website and the Hack-A-Sat CTF network are property of the U.S. Government. Participants (teams and individuals of those teams) acknowledge they are accessing a U.S. Government (USG) Information System (IS) that is provided for USG-authorized use only.

By using this IS (which includes any device attached to this IS), you consent to the following conditions:

- The USG routinely intercepts and monitors communications on this IS for purposes including, but not limited to, penetration testing, COMSEC monitoring, network operations and defense, personnel misconduct (PM), law enforcement (LE), and counterintelligence (CI) investigations.
- At any time, the USG may inspect and seize data stored on this IS.
- Communications using, or data stored on, this IS are not private, are subject to routine monitoring, interception, and search, and may be disclosed or used for any USG authorized purpose.
- This IS includes security measures (e.g., authentication and access controls) to protect USG interests - not for your personal benefit or privacy.

Notwithstanding the above, using this IS does not constitute consent to PM, LE or CI investigative searching or monitoring of the content of privileged communications, or work product, related to personal representation or services by attorneys, psychotherapists, or clergy, and their assistants. Such communications and work product are private and confidential.

## **Technical Papers**

To receive a Final Event prize, a team must submit an acceptable technical paper to the HAS4 organizers describing their approach to winning the game, to include a description of the attack strategies and defensive measures employed during the Final Event. Final Event technical papers are due within 3 weeks of the conclusion of the Final Event (see Rules Section 9 for official dates/times).

Formal technical write-ups must include enough detail to permit accurate stepwise understanding of the CTF challenge described. Write-ups should follow the format of typical CTF write-ups. As an example of acceptable write-up format please see ([https://github.com/cromulencellc/hackasat-finals-2022/tree/main/team\\_writeups](https://github.com/cromulencellc/hackasat-finals-2022/tree/main/team_writeups)). The write-ups should include a background description of the vulnerabilities discovered and a description of the techniques used to exploit and/or patch those vulnerabilities. Associated source code,

dependencies and instructions for deploying the code to address these vulnerabilities shall also be provided. The HAS4 organizers will review write-ups and communicate acceptance to each entrant official.

By making a submission to this prize contest, all participants (all members of the team) agree that no part of its submission includes any Trade Secret information, ideas, or products. All submissions to this prize contest are deemed non-proprietary. Since the United States Air Force and/or United States Space Force do not wish to receive or hold any submitted materials “in confidence” it is agreed that, with respect to the participant’s submission, no confidential or fiduciary relationship or obligation of secrecy is established between the U.S. Government, HAS4 organizers, and the participant, the participant’s team, or the company or institution the participant represents when submitting, or any other person or entity associated with any part of the participant’s submission.

The United States Air Force and Space Force reserve the right to disqualify a participant whose actions are deemed to violate the spirit of the competition for any reason, including but not limited to, the violation of laws or regulations in the course of participation in the Challenge. The United States Air Force and Space Force do not authorize or consent to participants infringing on any U.S. patent or copyright while participating in the Challenge.

**By signing below, the Entrant Official certifies acceptance of this event participation agreement, agrees to comply with all of the Rules outlined in the HAS4 Rules document, and agrees to participate in the HAS4 Finals in-person at DEF CON 31.**

\_\_\_\_\_  
Signature of Entrant Official

\_\_\_\_\_  
Date

**Appendix A: Participant Eligibility Verification Form  
Entrant Official**

To protect your privacy, and to avoid the breach of any Personally Identifiable Information (PII), this form and any attachments shall be transmitted by a secure method. You may either submit: a) via email to [shout@hackasat.com](mailto:shout@hackasat.com) as a password protected PDF, with the password submitted over Discord (preferred), or b) by regular mail to the address listed here:

AFRL/RIBA  
Attn: Hack-A-Sat 4 (S. Colenzo)  
26 Electronics Parkway  
Rome, NY 13441

1. Team Name: \_\_\_\_\_ 2. Entrant Official Name: \_\_\_\_\_

Please provide at least TWO of the following Government issued documents. A social security card is not adequate documentation to confirm citizenship or resident alien status. Please note additional documentation may be requested.

<b>Proof of Eligibility</b>	
	Birth Certificate from one of the 50 states, the District of Columbia, Puerto Rico, Guam, the U.S. Virgin Islands, American Samoa, or the Northern Mariana Islands
	REAL ID Driver License, Learner Permit, or Identification Card
	Valid U.S. Passport or U.S. Passport Card issued to the individual as a U.S. citizen
	Permanent Resident Card (Form I-551)
	Alien Registration Card Receipt (Form I-551)
	U.S. Department of State Form FS-545, Certification of Birth Abroad
	U.S. Department of State Form DS-1350, Certification of Report of Birth
	U.S. Department of State Form FS-240, Report of Birth Abroad of a Citizen of the USA
	Native American tribal document, U.S. Citizen ID Card (Form I-197)
	Certificate of U.S. Naturalization (Form N-550 or N-570)
	Certificate of U.S. Citizenship (Form N-560 or N-561)

Please do not write below this line

1st Document Identification Number (if Applicable): \_\_\_\_\_

2nd Document Identification Number (if Applicable): \_\_\_\_\_

\_\_\_\_\_  
**Signature of Authorized Program Official**

\_\_\_\_\_  
**Date**

(to be completed by Government): Entrant Official determined as: \_\_\_ Eligible \_\_\_ In Eligible

### Appendix B: Change to Team Form

Please use the table below to convey any updates to your team information. If you are not updating information in a specific row please write "Not Applicable". Please note that changes to the Entrant Official or Team Leader will require an updated Participant Eligibility Verification Form to be completed and submitted.

	Original	Update
Team Name		
Team Sponsor		
Official Affiliation		
Social Media Links/Handles		
Entrant Official Name		
Entrant Official Street Address		
City, State, Zip Code		
Country		
Phone Number		
Cell Phone Number		
Email Address		
Team Leader Name		
Team Leader Street Address		
City, State, Zip Code		
Country		
Phone Number		
Cell Phone Number		
Email Address		



## Appendix C: Parent or Legal Guardian Consent Form and Liability Waiver

Completed forms shall be emailed to [shout@hackasat.com](mailto:shout@hackasat.com) prior to the minor's participation in Hack-a-Sat 4 prize challenge events.

Confirmation Number: \_\_\_\_\_

I/we \_\_\_\_\_ acknowledge that I/we am/are the  
(Printed Name of Parent(s) or Legal Guardian(s))

[ ] parent(s) or [ ] legal guardian(s), of \_\_\_\_\_, and that I/we give  
(Printed Name of Minor Team Member)

permission for them to participate in the Hack-A-Sat 4 prize challenge. I/we agree that the Minor Team Member will comply with all of the Rules outlined in the HAS4 Rules document.

By consenting to my Minor Team Member's participation, I/we AGREE TO ASSUME ANY AND ALL RISKS AND WAIVE any and all CLAIMS AGAINST THE United States Government, its agencies, employees, contractors, consultants, representatives and any related entities, except in the case of willful misconduct, for any injury, death, damage, or loss of property, revenue, or profits, whether direct, indirect or consequential, arising from participation in this prize contest, whether the injury, death, damage or loss arises through negligence or otherwise.

By consenting to my Minor Team Member's participation in the event, I/we agree to indemnify the U.S. Government from any and all liability and costs arising from or related to my Minor Team Member's participation in the contest.

Minor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Parent/Guardian Signature: \_\_\_\_\_ Date: \_\_\_\_\_



