

THEME

Security Assurance Services

OVERVIEW

One of the key priorities of Botswana's Digital Transformation Strategy (SmartBots) is enhancing public service delivery to Botswana by Digitally transforming the Public Service. An action plan that delivers a smart sustainable society for Botswana and Botswana.

The Strategy adopts a whole of government approach to drive the digitization of the public sector and drive Botswana towards a Knowledge-Based Economy.

As such, the Government of Botswana is working around the clock to digitize services or roll out online services to improve service delivery thus transformation the public sector.

PROBLEM STATEMENT

The Government of Botswana has developed online services and platform solutions and more are being planned for development. Therefore, there is need to ensure that the 1Gov Platform, the services and the data are secure from any security threats and breaches prior to their release. Currently there has not been any efforts towards ethical security hacking to check for vulnerabilities and security holes posing a risk of exploitation by malicious actors after release of these solutions.

To guarantee secure services, Government requires security experts/ethical hackers with security testing skills in penetration testing or vulnerability assessment across Botswana are invited to demonstrate capability to carry out a white hack (software testing) with respect to the rule of law as it applies to the discipline on the deployed solutions for The Government of Botswana.

Expected outcomes:

- Awareness of the security status across Government
- Proactive detailed and comprehensive analysis of the services/solution and tools vulnerabilities and recommended tools and remedies
- Improved quality of service

Security Experts/Ethical Hackers are required to demonstrate their capability for security and vulnerability check services that will address the above challenges and expectations.

ELIGIBILITY

Citizens of Botswana

NB: The top ranked individuals will be taken for security vetting and police clearances from which those that are cleared may be engaged as white hackers for the Government of Botswana.

TEAM COMPOSITION AND SKILL SETS

Participation to this hackathon should be on individual basis.

Skills Set Required: Minimum

- Security
- DevOps
- Networking skills
- Computer & hardware skills
- Linux skills
- Programming skills
- Knowledge in Reverse Engineering
- Cryptography
- Database skills
- Source code analysis

HACKATHON DURATION

The hackathon event will be running for 5 days, with participants expected to have submitted their best work by the end of day 5 of the hackathon, Time **17:00HRS CAT**.

Hackathon Activity	Timeline
Registration	22 nd – 26 th June 2022
Hacking	29 th June – 3 rd July 2022
Judging	5 th – 6 th July 2022
Presentation Top 5	8 th July 2022
Announcement of results and Prize Giving	12 th July 2022

JUDGING CRITERIA

CRITERIA	DESCRIPTION	WEIGHTING	INDIVIDUAL WEIGHTING
Functionality	Demonstrate in depth knowledge, usage and application of the following: <ul style="list-style-type: none"> • Penetration tools and their usage. • Penetration testing methodologies • Vulnerability assessment tools and their usage (Including source code) • Networking, web, mobile application and security • Cross platform knowledge (e.g. Linux, Windows etc.) • cyber kill chain 	75%	15% 10% 15% 10% 10% 15%
Technical reporting and documentation	Provide a detailed technical report and documentation on the findings and recommendations including recommended tools.	25	25%

HACKATHON BRIEFING

The briefing will take place on the 29th June 2022 at **1200HRS** before the commencement of hacking. Qualified teams are expected to receive an invitation to the briefing via Microsoft Teams on the 28th May 2022.

Submissions

Primary submission will be through the platform by a way of attaching and uploading files and sharing the link to your preferred cloud drive. Refer to item 12 from FAQs on how to package the submission. Primary submission should be followed by an email submission to: hackathon@bih.co.bw by attaching a link to the preferred cloud drive.

What should I submit?

Technical proposal clearly detailing motivation, solution design and architecture, software stack and lessons learnt during the process. There should be ample evidence of a good research process that has gone into the development of the product.

The technical proposal should not be more than 10 pages.

Submission format:

URL link to your solution (Mandatory).

Walkthrough video of your solution (Mandatory).

File size for submission: Maximum allowable file size 150MB

FAQs

1. **Do I need to pay any money to register for the Hackathon?** No. You do not have to pay anything to anyone to register.
2. **How do I register?** *Follow the steps below on how to register.*
 - i) Sign Up or Login to the Skillsranker platform.
 - ii) Go to Hackathons tab where you will see hackathon events.
 - iii) Click on the Hackathon event you wish to participate on.
 - iv) Click "**Register for event**".
3. **Can I register for this challenge as an individual?** Yes. Citizens of Botswana only and participation to this challenge is on individual basis.
4. **When will registration begin and close?** Registration date: 22nd – 26th June 2022 (1700hrs CAT).
5. **Will my information be kept confidential?** Yes. It will not be shared with third parties.
6. **How is the environment? Will your environment support the software tools we use? Will you be able to view and interact with the submitted solution?** Yes, we will be able to view your submission and more guidelines are provided under the submissions tab in skillsranker platform.
7. **Does one have to be online and available for the entire duration of the challenge?** Yes. At least one team member should be available online for the entire duration of the hackathon.

8. **Do I need to present my solution?** Yes. Only the top 5 individuals will present to the judges.
9. **Who will own the IP (Intellectual Property) to the solution that I have provided?** The IP will be owned by the Government of Botswana for all the works produced during and after the hackathon.
10. **How do I submit what I have made for the Hackathon?** Primary submission will be through the skillsranker platform by way of uploading files on the provided space and in some instances, you may be required to share the link to your preferred cloud drive or submit via email. Refer to the below item 12 in the list on how to package the submission.
11. **What should I include in my idea submission?**
 - Clearly label your submission in a folder with your team's name. E.g., HACKERS
 - Technical proposal clearly detailing motivation, solution design and architecture, software stack and lessons learnt during the process. There should be ample evidence of a good research process that has gone into the development of the product.

The technical proposal should not be more than 10 pages.

Submission format:

URL link to your solution (Mandatory).

Walkthrough video of your solution (Mandatory).

Installation/executable files for all platforms.

Source Code (Mandatory).

Include ReadMe file explaining how to run the files and tools to be used.

12. **When will the winners be announced?** Immediately after the challenge and prize money will be paid within 2 weeks.
13. **During the challenge period, will there be any elimination rounds (daily)?** No, elimination will be done at the end of the challenge.
14. **How are participants supposed to get feedback?** Throughout the hackathon, event communication will be made via email to all the teams. There will be a briefing at the start of the hackathon.
15. **What judging criteria will be used by the Judges?** The judging criteria is available on the skillsranker platform under the hackathon description tab.
16. **Are there any prizes to be won?** Yes, Grand prize worth BWP70,000.00, First runner P20,000.00 and second runner P10,000.00.

17. **Now that I have won the challenge what is next?** The sponsor will decide whether it is continuing to implement the solution. Once such a decision is made, the winning team will be engaged and assisted to complete their solution/product/design, on terms and conditions to be agreed with the sponsor and based on applicable Government rates.
18. **What are the conditions of award?** Government of Botswana and BDIH reserve the right to award all, partially or none of the services under the hackathon challenge.
19. **I have registered for the event, and I am aware the hacking begins from the 29th June 2022 however what is next before the commencement of the hack?** There will be a briefing on the 29th June 2022 at 1100HRS before hacking begins and registered teams that have met the challenge set criteria should expect an invitation on the 28th May 2022 via Microsoft Teams.

CHALLENGE ELIGIBILITY

Citizens of Botswana

Participation to this hackathon should be on individual basis.

20. **In case I have a question concerning the challenge event who do I contact?** Email us at hackathon@bih.co.bw or call at the below:

Tel: Call us at: 391 3328

Day: Monday – Friday

Hours of Operation: 08:00 – 17:00 HRS

Note that we only offer limited support on weekends via email.

RULES AND LEGAL

1. All design elements and any work for your project must be created during the event.
2. While you may not begin any work in advance, you can plan and discuss with your team in advance. Written documents and design sketches are allowed.
3. **Only the top five (5)** of the competing individuals will present their projects in the final round of judging at the end of the event.
4. It is a five days challenge.
5. Top 5 individuals should prepare a short (10 minutes) project pitch. Pitching individuals will be provided with templates to use.

6. Individuals that make it to the final round will be given up to 10 minutes to present their finished project to a panel of judges, and another 5 minutes for questions and answers.
7. The team must be accessible at all times during official working hours. The official working hours for the hackathon process are 08:00hrs to 17:00hrs on week days.
8. The winning individual will be identified after presentations.
9. Any intellectual property developed for the winning company during the hackathon will belong to the Government of Botswana.
10. By participating in the SmartBots Hackathon challenge, you agree to abide by the following code of conduct.
 - Treat all other hackers with the utmost respect.
 - Please treat our sponsors, organizers, and judges with the utmost respect.

Failure to comply with the above-stated Rules and Code of Conduct may result in the offending team's disqualification.

11. Individuals must read these rules and accept the terms in their entirety without reservation before their Registration and participation in the Challenge.
12. Any participant that doesn't abide by the terms during the challenge will be automatically and without previous notification, disqualified from the Challenge and shall not be awarded any Endowments. In the case where an Endowment would have been awarded the Organizers have the right to demand the return of the endowment received.
13. Any Registration containing wrong or incomplete information shall not be taken into account and shall disqualify the Participant.
14. By registering, the Participating individual accept to be contacted through emails sent by Organizers during the Challenge if the company is part of the preselected participants or the Winners.
15. Participation in the challenge is scheduled from the 29th June - 3rd July 2022.
16. Every date clearly defined in these rules and the challenge is in the Central Africa Time zone (CAT)
17. No extra time nor exemption to this time will be granted, for any reasons whatsoever.
18. Each participant ensures that he is the co-creator of the intellectual property rights of the presentation document of the application as well as the application submitted.

19. The participation in the Challenge implies knowledge and acceptance of the characteristics, limitations, and risks of the internet network and the technologies which are linked to it, particularly in consideration of the performances, in response time, in the security of the software and the computer hardware towards diverse potential attacks such as virus, logic bomb or Trojan horse and the loss or the diversion of data. As a consequence, the Organizers cannot be held liable for any loss or damages caused to the Participant because of these accepted characteristics, limitations and risks.

20. The participants are responsible for ensuring that all submissions reach the organisers within the set time limits. Organizers cannot, in any case, be held liable or responsible for delayed submissions or submissions which reached the organisers beyond cut off times.

21. The Organizers have the right to change, modify, suspend or cancel any hackathon at any stage. Any changes made shall be duly published in the skills ranker platform. The organisers shall not be liable for any loss arising therefrom.

22. The Organizers cannot be held responsible for the consequences of a disqualification of a team because of violation of these Regulations.

23. The Participant commits to:

(i) Not use the Confidential Information obtained by virtue of participating in this hackathon for any other purposes other than the participation in the Challenge in the conditions of the Regulations.

(ii) Take necessary, useful and reasonable precaution to protect Confidential Information obtained by virtue of participating in the hackathon.

(iii) Not Revealing the Confidential Information hackathon to whomever, by any means whatsoever, except to the other members of his/her Team, or as may be required by law.

24. Government of Botswana and BDIH reserve the right to modify at any time the terms of the Regulations, and during the Challenge without the requirement of notification to the Participant, concerning the application and the validity of these modifications. The Participant is invited to regularly consult the Regulations. The Participant gives up expressly any complaint or contesting linked to any modification brought to the Regulations by the Organizers.

25. SmartBots and BDIH reserve the right to cancel, shorten, suspend the Contest if it appears that fraud has occurred in any form whatsoever, including by computer through the participation in the Contest or cases of force majeure.

26. Government of Botswana and BDIH reserve the right to award all, partially or none of the services under the hackathon challenge.

27. Notwithstanding anything in the foregoing, the Government of Botswana is not bound to accept any solution/prototype, nor incur any expenses to the preparation thereof.

28. Any costs incurred by the individual, associated with the challenge will be to the individual account

Photo Release Waiver

By attending or participating in the SmartBots/BDIH Hackathon challenge, you hereby grant SmartBots and its affiliates permission to use your likeness in a photograph, video, or other digital media ("photo") in any and all of its publications, including web-based and social media publications, without payment or other consideration. You understand and agree that all photos will become the property of SmartBots or BDIH or its affiliates and will not be returned.

You irrevocably authorize SmartBots and BDIH and its affiliates to edit, alter, copy, exhibit, publish, or distribute these photos for any lawful purpose, including publicity and marketing initiatives. In addition, you waive any right to inspect or approve the finished product wherein my likeness appears. Additionally, you waive any right to royalties or other compensation arising or related to the use of the photo.

You hereby hold harmless, release, and forever discharge the SmartBots/BDIH Hackathon and its affiliates from all claims, demands, and causes of action which you, your heirs, representatives, executors, administrators, or any other persons acting on your behalf or on behalf of your estate have or may have by reason of this authorization.

Hackathon Complaint Procedure

Once we have received your query or complaint through hackathon@bih.co.bw, then the below query management procedure will commence:

In your email, please include the following:

1. Company name
2. Contact details: Mobile Number
3. Detailed Description of the query

Complaint/Query Steps	Owner	Contact Details	Turn Around Time
1	Service Agent	hackathon@bih.co.bw	24 Hours
2	Manager	Kgotlayarona.basalumi@bih.co.bw	24 Hours

3	Director	Budzanani.tacheba@bih.co.bw	24 Hours
4	CEO/Management Tender Committee	Tshepo.tsheko@bih.co.bw	14 Days
5	BDIH Board		
6	Public Procurement Regulatory Authority (PPRA)		
7	Court of Law		

DISCLAIMER:

SmartBots and BDIH reserves the right at its sole discretion to change these rules.

These rules are subject to change.

PRIZES



GRAND PRIZE: BWP70,000.00



SECOND PRIZE: BWP20,000.00



THIRD PRIZE: BWP10,000.00