# Phishing Awareness Training CodeAlpha Internship

Phishing attacks, recognizing and avoiding phishing emails, websites, and social engineering tactics.

_ Sidda Govardhan Reddy

# Overview

01 Introduction

02 Types of Phishing Attacks

03 Phishing Attacks in Social Media

04 Ways to Detect Phishing Attacks

05 Prevention of Phishing Attacks

# What is a Phishing Attack ?

PhPihsihsihnign gi si sa af ofromr mo fo fc ycbyebrecrrcirmiem ew hwehreer ea na na tatatcakcekre ri miimtiattaetse sa ar eraela lp epresrosno n/ /

nstitution by promoting them as an official person or entity through e-mail or other communication mediums.

- Itl ti si st hteh ef rfaruaduudluelnetn ta caqcuqiusiistiitoino no fo fc ocnofnifdiednetnitaila ld adtaat ab yb yt hteh ei nitnetnednedded

recipients and the misuse of such data.

- Inl nt htihsi st ytpyep eo fo fc ycbyebre ra tatatcakc,k ,t hteh ea tatatcakcekre rs esnednsd sm amlailciicoiuosu sl ilniknsk so ro ra tatatcahcmhemnetnsts through phishing emails that can perform various functions, including capturing the login credentials or account information of the victim.

- SoScoicaila lE nEgnignienereirnign gi si sm omsots tp oppouplualra rm emtehtohdo du suesde db yb yt hteh ep hpihsihsehre rt ot os tsetaela lv ivcitcitmi’ms’s

personal data and the account details.

# What is a Phishing Attack ?

nrearla,l ,t hteh ei nifnofromramtaitoino nt htahta ti si ss tsotloelne nb yb ya ap hpihsihsihnign ga tatatcakc ki

si se ietihtehre ra nan

User account number, User passwords and user name, Credit card information, Internet banking information.

- PhPihsihsihnign gi si sm amianilnyl yu suesde di ni ne meamiali lh ahcakciknign.g .T hTeh ep rporcoecses sc acna nb eb es esene ni nin - thteh ei miamgaeg eb ebseisdied.e. - ThTeh eC yCcylcel eo fo fP hPihsihsihnign gA tAtatcakcsk sc ocnosnisdiedreirnign gt hteh ee xeaxmapmlpel eo fo fP hPihsihsihnign gE -EM-aMiali lc acna nb ebe

seen in the

- bebseisdied ei miamgaeg.e.

# What is a Phishing Attack ?

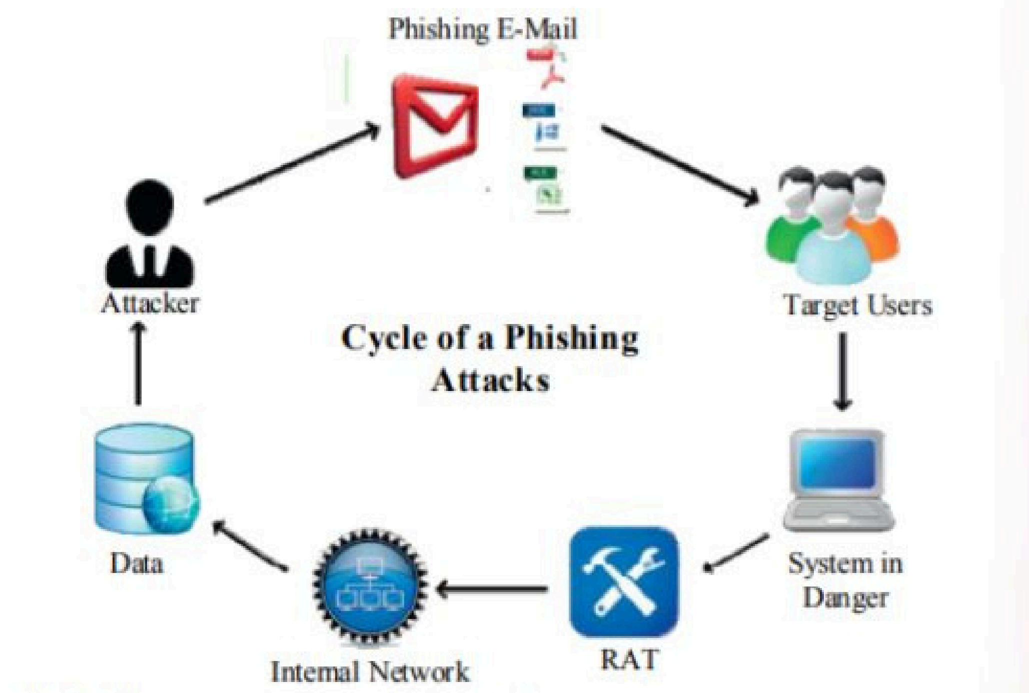
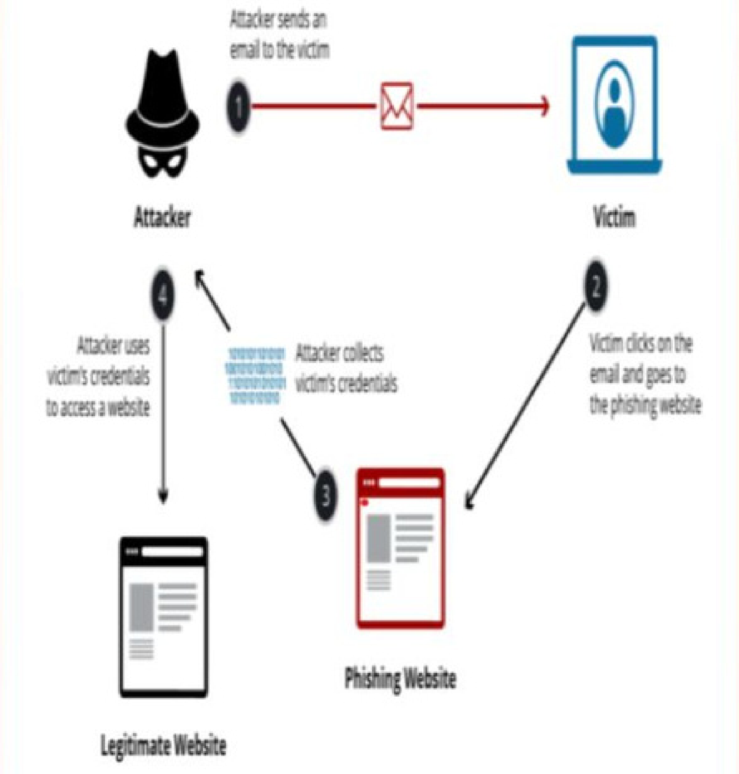


Fig 1. The processing cycle of phishing attacks


Attacker sends an email to the victim
1
Attacker
Victim
4
Attacker uses victim's credentials to access a website
Attacker collects victim's credentials
2
Victim clicks on the email and goes to the phishing website
3
Phishing Website
Legitimate Website

# Types of Phishing Attacks

## Deceptive Phishing

- DeDceecpetpitviev ep hpihsihsihnign gi si sa at ytpyep eo fo fc ycbyebre ra tattatcakc kw hwehreer es csacmammemresr sc rceraetaet ef afkaek ee meamialisl so ro rw ewbesbistietses that look like they come from trusted sources, such as banks or social media platforms.
- ThTehye ya iami mt ot ot rtircikc ki nidnidviivdiudaulasl si nitnot op rporvoivdiidnign gs esnesnistiitviev ei nifnofromramtaitoino nl ilkiek eu suesrenranmaemse,s, passwords, or financial details.
- ThTeh ea tattatcakcekresr so fotfetne nu sues eu rugregnecnyc yo ro rt htrheraetast st ot om amkaek ev ivcitcitmism sa catc tq uqiucikclkyl yw iwtihtohuotu tv evreirfiyfiynigng the legitimacy of the communication.

## Spear Phishing

- SpSepaera rp hpihsihsihnign gi si sa at atragregteetde df ofromr mo fo fp hpihsihsihnign gw hwehreer ea tattatcakcekresr sc ucsutsotmoimziez et htehieri rm emsessasgaegse sf ofror specific individuals or organizations.
- UnUlnilkiek eg egneenrearla lp hpihsihsihnign,g ,w hwihcihc hc acsatsst sa aw iwdied en ente,t ,s psepaera rp hpihsihsihnign gi nivnovlovlevse si ni-nd-edpetpht hr erseesaeracrhch to make messages appear highly personalized and trustworthy.
- ItI to fotfetne ni nivnovlovlevse ss oscoicaila le negnignieneereirnign gt atcatcitcisc sa nadn di si sm omroer es ospohpihsitsitciactaetde dt htahna nt rtardaidtiitoinoanlal phishing attempts.

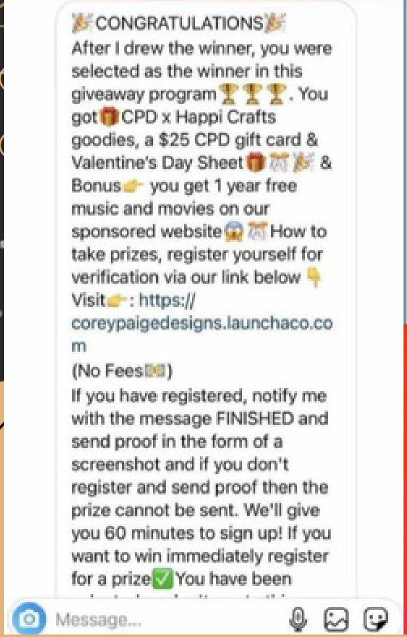
# Types of Phishing Attacks

## Clone Phishing

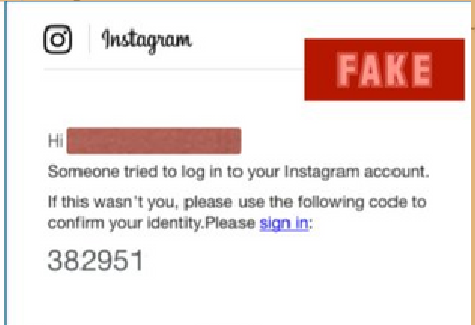
- ClColnoen ep hpihsihsihnign gi si sa as psepceicfiifci ct ytpyep eo fo fp hpihsihsihnign ga tattatcakc kw hwehreer ec ycbyebrecrrcirmiimnianlasl sc rceraetaet ea an enaeralryly identical or "cloned" copy of a legitimate email or website.
- ThTeh ec lcolnoende dc ocnotnetnetn tt ytpyipciaclallyl ym immiimcisc sa al elgeigtiitmiamtaet em emsessasgaeg eo ro rw ewbepbapgaeg ef rformo ma at rtursutsetde ds osuorucrec,e, such as a bank, social media platform, or a reputable organization.
- ClColnoen ep hpihsihsihnign gr erleileise so no nt hteh ef afmaimliilairairtiyt yo fo ft hteh ed udpulpilciactaetde dc ocnotnetnetn tt ot od edceecieviev er erceicpiipeinetnst,s, making it challenging for them to distinguish between the genuine and the malicious.

## Whaling

- WhWahlailnign gr erfeefresr st ot oa as psepceicfiifci ct ytpyep eo fo fp hpihsihsihnign ga tattatcakc kt htahta tt atragregtest sh ihgihg-hp-rporfoifliel ei nidnidviivdiudaulasls or executives within an organization.
- WhWahlailnign ga iamism st ot ot rtircikc kt htehsees ei nifnlfuleunetnitaila lf ifgiugruerse si nitnot ot atkaiknign ga catcitoinosn st htahta tc ocuoludl dc ocmopmrpormoimsiese sensitive information or financial assets.
- WhWahlailnign ga tattatcakcsk st ytpyipciaclallyl yi nivnovlovlev es oscoicaila le negnignieneereirnign gt atcatcitcisc sa nadn dc acraerfeuflu lr erseesaeracrhc ht ot om amkaeke the fraudulent communications appear legitimate.



🎉CONGRATULATIONS🎉
After I drew the winner, you were selected as the winner in this giveaway program🏆🏆🏆. You got🎁CPD x Happi Crafts goodies, a $25 CPD gift card & Valentine's Day Sheet🎁🎊🎉 & Bonus👉 you get 1 year free music and movies on our sponsored website😱🎊 How to take prizes, register yourself for verification via our link below 👇
Visit👉: https://coreypaigedesigns.launchaco.com
(No Fees💵)
If you have registered, notify me with the message FINISHED and send proof in the form of a screenshot and if you don't register and send proof then the prize cannot be sent. We'll give you 60 minutes to sign up! If you want to win immediately register for a prize✅You have been

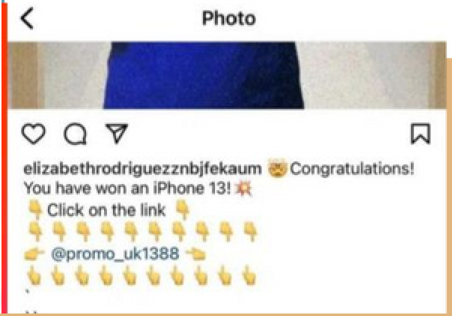


Hi [redacted]

Someone tried to log in to your Instagram account.

If this wasn't you, please use the following code to confirm your identity.Please sign in:

382951



elizabethrodriguezznbjfekaum 🐯 Congratulations! You have won an iPhone 13!💥
👇 Click on the link 👇
👇👇👇👇👇👇👇👇👇👇
👉 @promo_uk1388 👈
👆👆👆👆👆👆👆👆👆👆

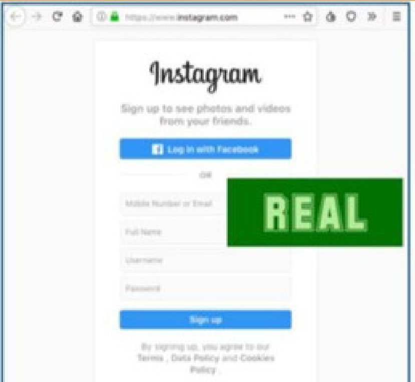
# Phishing Attacks in Social Media

- LLaauunncchhiinnggaaggiivveeaawwaayyvviiaaaaffaakkee brand account.

- IImmppeerrssoonnaattiinnggaannooffffiicciiaallaaccccoouunntt and contacting you via DM or email with a warning or request for information.

- MMaakkiinnggyyoouuaatteemmppttiinnggooffffeerraanndd providing a link that directs you to a website scammers control.

- FFaakkee22FFAAccooddeess



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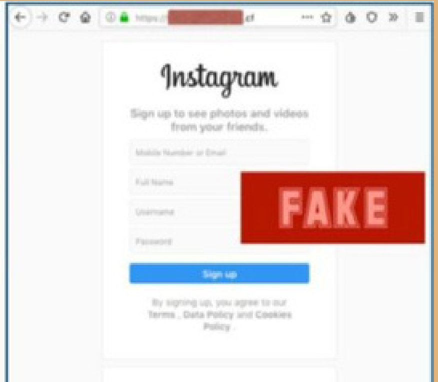

Sign up to see photos and videos from your friends.

By signing up, you agree to our Terms , Data Policy and Cookies Policy .

# Ways to detect Phishing Attacks

## Use a custom DNS services

- Itl ti nivnovlovlevse sl elveevreargaignign ga as psepceicailailziezde dD oDmoamiani nN aNmaem eS ySsytsetme mp rporvoivdiedre rt htahta to foffefresr se nehnahnacnecded security features.
- ThTehsees es esrevrivciecse sc acna nf iflitletre ro uotu tk nkonwonw nm amlailciicoiuosu sd odmoamianisn,s ,b lbolcokc ka caccecsess st ot op hpihsihsihnign gs istietse,s ,a nadnd provide real-time analysis to identify emerging threats.
- CuCsutsotmo mD NDSN Sa lallolwosw so rogragnainziaztaitoinosn st ot os este tu pu pt atialiolroerde ds esceucruirtiyt yp oploilciiceise,s ,l olgo ga nadn dr erpeoprotr tD NDSNS activities and also adds an extra layer of protection against phishing attacks by preventing users from accessing potentially harmful websites.

## Use your Browser’s phishing list

- YoYuoru rb rborwoswesre'rs' sp hpihsihsihnign gp rportoetcetcitoino nu tuitliilziezse sa al ilsits to fo fk nkonwonw nm amlailciicoiuosu sw ewbesbistietse st ot ow awranr na nadnd block users from accessing potential phishing sites in real-time.
- EnEsnusruer et htihsi sf efaetautruer ei si se neanbalbelde,d ,s tsatya yu pudpadtaetde dw iwtiht hb rborwoswesre rv evresrisoinosn,s ,a nadn dp apya ya tattetnetnitoino nt oto warnings issued by the browser.

# Ways to detect Phishing Attacks

## Use sites to check links

- WhWehne nw owrokriknign go no na nayn ys istiet eo ro ra nayn yp rporgorgarma mt htehreer ei si sa ap oppoppipnign go fo fd idfiffefreernetn tk iknidnsd so fo fl ilniknsk,s ,o ror in case you're presented a link or which you are not so sure, you can copy and check it on a number of different site

- UsUes eU RULR LS cSacnannenresr:s :S eSrevrivciecse sl ilkiek eV iVriursuTsoTtoatla lo ro rU RULRVLoViodi da naanlaylzyez el ilniknsk sa gaagianisnts tm umlutlitpilpele security databases.

- LiLnikn kA nAanlaylsyissi sT oToolosl:s :T oToolosl sl ilkiek eC hCehcekcSkhSohrotrUtRULR Lo ro rG eGteLtiLniknlknlfnof oh ehlepl pa naanlaylzyez ea nadn dp rperveiveiwew shortened URLs

## Use your own Ninja skills

- LoLooko kf ofro rs esceucruer ec ocnonnencetcitoinosn:s :T hTihsi si si su suusaulallyl yi diednetnitfiifeide db yb ya ag rgereene na raerae ai ni nt hteh ea daddrdersesss bar, along with https in URL.

- LoLooko ka ta tt hteh ed odmoamiani no fo fU RULR LL oLooko ka ta tt hteh ed odmoamiani nt htahta ti ti ts hsohuoludl dn onto tb eb em omdoidfiifeide do ro rc hcahnagnegde.d.

# Preventing Phishing Attacks

## Guard against spam

- EnEanbalbel eB uBiulitl-ti-ni nS pSapma mF iFlitletresr:s :E nEsnusruer et htahta tt hteh es psapma mf iflitletresr si ni ny oyuoru re meamiali ls esrevrivciec ea raere

  activated and configured effectively.

- UsUes eA dAvdavnacnecde dT hTrheraeta tP rPortoetcetcitoino n( A(TAPT)P:) :C oCnosnisdiedre ra davdavnacnecde ds esceucruirtiyt ys osloultuitoinosn st htahta tp rporvoivdiede

  aTdIdNiYtWiOoWnal layers of protection against advanced threats.

- Imlpmlpelmeemnetn tM uMlutlit-iF-aFcatcotro rA uAtuhtehnetnitciactaitoino n( M(FMAF)A:) :A dAdd da na ne xetxrtar al alyaeyre ro fo fs esceucruirtiyt yt ot op rperveevnetnt

  unauthorized access, even if credentials are compromised.

## Communicate personal information only via phone or secure web sites

- InI nt htihsi st ytpyep eo fo fp hpihsihsihnign gp rperveevnetnitoino,n ,t hteh eu suesre rs hsohuoludl db eb ea waawraer eo fo fw hwihliel ec ocnodnudcutcitnign go nolnilniene

  transactions, look for the secured sign on the browser status bar or” https.” URL where the “s” stands for “secure” rather than’

  http.”

# Preventing Phishing Attacks

## Do not click on links, download files or open attachments in emails from unknown sender

- Itl ti si sa lawlawyasy sb ebsets tt ot os esceucruer ea nayn yd adtaat ap rporpoeprelryl ys uscuhc ha sa sb abnakn kd edteatialisl sa nayn ys oscoicaila lm emdeidaia
  details, in emails also open the attachment only if when you are expecting them and known what that attachment contains even if you
  the sender
- Itl'ts' se sessesnetnitaila lt ot ov evreirfiyf yt hteh es esnednedre'rs' si diednetnittiyt ya nadn du sues ee meamiali lf iflitletresr st ot oi diednetnitfiyf ya nadn db lbolcokck
  suspicious emails.

## Sound security policies

- Inl nt hteh eb ibgi go rogragnainziaztaitoinosn so ro rc ocmopmapnaineise,s ,y oyuo us hsohuoludl ds este ts osmoem er urluelse sa sa st ot oh ohwo wy oyuo us hsohuoludld
  respond to strange or out of place emails and requests.
- YoYuoru rc ocmopmapnayn'ys' sp oploilciyc ys hsohuoludl da laslos os hsohwo wp epoepolpel ew hwahta tt ot od od oi ni nc acsaes et htehye ys esee es osmoemtehtihnign go uotu to fof
  place.
- VeVreirfiyfiynign gi nifnofromramtaitoino no voevre rt hteh ep hpohnoen ea daddsd sa na ne xetxrtar al alyaeyre ro fo fs esceucruirtiyt.y.

# References

- hthtptsp:s/:/i/eieexepxlpolroer.ei.eiee.eo.rogr/ga/basbtsrtarcatc/td/odcoucmuemnetn/t8/858256246747 -
hthtptsp:s/:/p/appaepresr.ss.srsnr.nc.ocmo/ms/oslo3l/3p/appaepresr.sc.fcmf?ma?basbtsrtarcatc_ti_di=d2=524547447242 -
hthtptsp:s/:/i/eieexepxlpolroer.ei.eiee.eo.rogr/ga/basbtsrtarcatc/td/odcoucmuemnetn/t9/5925927987989 -
hthtptsp:s/:/w/ww.wf.rfornotniteiresrisni.no.rogr/ga/ratritcilcelse/s1/01.03.38398/9f/cfocmopm.p2.022012.15.6536036006/0f/uflull -
hthtptsp:s/:/w/ww.ws.csiceinecnecdeidriercetc.tc.ocmo/ms/csiceinecnec/ea/ratritcilcel/ea/basb/sp/ipi/iS/0S905975471471471481380320027007 0

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