

Learning English

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Words

- Fundamentals; Basics (??; ??)
- incident; event (??)
- Regulations; Compliance; Regulatory Compliance (??; ??; ??)
- Fraud ; Fraudsters (??????)
- Prerequisites (????)
- Bottleneck (??)
- Achieve (??;??)
- Bare Metal (??????)
- Overhead (????, ????)
- Outline (??/??/??)
- Technique (??;??;??)
- Step down (??)
- Generative AI (???AI)
- Hacker Terms
 - Exploit (??)
 - Backdoor (??)
 - Malware (????)
 - Malicious activity (????)

Have/Take/Do

have

a drink
a bath
a good time
a rest
lunch

take

a break
a look
an exam
a seat
a chance

do

your homework
nothing
the cooking
the dishes
your hair

make

a decision
a mess
an effort
the bed
money

go

home
bankrupt
crazy
shopping
abroad

come

to a decision
to an end
close
early
last

get

pregnant
lost
ready
started
a job

let me

know
think
help you
go
see

keep

in touch
a secret
the change
quiet
in mind

Symbols

SYMBOLS IN ENGLISH

+

Plus

—

Minus

.

Dot
/ Point

%

Percent

=

Equals

X

Multiply

÷

Divide by

?

Question
mark

#

Hashtag

/

Forward
slash / Or

[]

Brackets

()

Parenthese

,

Comma

:

Colon

;

Semi-colon

—

Hyphen
/ Dash

@

At sign

" "

Quotation
marks

_

Underscore

&

And sign

*

Asterisk

{ }

Braces

|

Pipe

!

Exclamation
mark

E-Mail Like a Boss

E-MAIL LIKE A BOSS

TOOK AWHILE BUT YOU CAN DEAL



SORRY FOR
THE DELAY



THANKS FOR
YOUR PATIENCE

MY SCHEDULE MATTERS TOO



WHAT WORKS
BEST FOR YOU...?



COULD YOU DO...?

YEAH, YOU ARE WELCOME



NO PROBLEM/NO
WORRIES!



ALWAYS HAPPY TO
HELP

I KNOW WHAT I'M DOING



I THINK MAYBE
WE SHOULD...



IT'D BE BEST IF
WE...

WORKING THIS IS HARD



REWRITING E-MAIL
FOR 40 MINUTES



IT'D BE EASIER TO
DISCUSS IN PERSON

DO YOU GET IT?



HOPEFULLY THAT
MAKE SENSE?



LET ME KNOW IF
YOU HAVE QUESTIONS

WHERE THE HACK ARE WE ON THIS



JUST WANTED TO
CHECK IN



WHEN CAN I
EXPECT AN UPDATE

I MADE A SMALL ERROR



AHH SORRY! MY BAD
TOTALLY MISSED THAT



NICE CATCH UPDATED
THANKS FOR LETTING
ME KNOW!

I HAVE AN APPOINTMENT



COULD I POSSIBLY
LEAVE EARLY?



WILL NEED TO
LEAVE FOR...AT..

Sorry, I Can't Go



Alternative Polite Ways to Say "Sorry, I Can't Go"



"I'm unable to make it." A straightforward way to decline without providing specific reasons.

"I have a prior commitment." Indicates that you already have other plans or obligations.

"I'm not available at that time." Suggests that the proposed time doesn't work for you.

"Unfortunately, I have something else scheduled." Implies that your calendar is already booked.

"Regrettably, I won't be able to attend." Expresses your remorse for not being able to go.

"I appreciate the invitation, but I can't make it." Conveys gratitude while declining the invitation.

"It's not going to work for me, I'm afraid." Explains that the event's timing or logistics are not suitable for you.

"I'll have to pass this time." Indicates your decision to decline without going into details.

"I'm going to have to decline your kind invitation." Uses polite language to decline the invitation.

"I'm afraid I won't be able to join you." Expresses regret and inability to attend.

"I have a scheduling conflict." Highlights that there's a conflict preventing your attendance.

"I won't be able to make it due to a prior engagement." Explains that you have a pre-existing commitment.

"I'm sorry, but I won't be in town." Implies that you won't be available because you'll be away.

"I'm going to have to decline this time, but I appreciate the invite." Politely declines while acknowledging the invitation's thoughtfulness.

"Unfortunately, I won't be able to participate this time around." Expresses your inability to participate in the specific event or occasion.

I'm Sorry

OTHER WAYS TO SAY "I'M SORRY"

☘ My mistake.



☘ Oh, my bad.

☘ Pardon (me)

☘ Please accept our (sincerest) apologies.

☘ Please don't be mad at me.

☘ Please excuse my (ignorance)

☘ Sorry about that.

☘ Sorry, my apologies. I had that wrong.

☘ Sorry. It was all my fault.

☘ That was wrong of me.

☘ That's my fault.



☘ I beg your pardon.

☘ My bad (US).

☘ Excuse me for interrupting.

☘ I was wrong. Can you forgive me?

☘ Pardon me for being so rude.



Nice Ways to Say No

Nice Ways To Say No

1. Sounds nice, but I am not available.
2. I am honored that you asked me, but I can't do it.
3. I'm sorry, but I can't help you at this time.
4. Unfortunately, it's not a good time.
5. I am not available at the moment, but maybe next time.
6. Unfortunately, this is not something I can do right now.
7. I really appreciate you asking me, but I can't commit to that right now.
8. Sorry, but I can't make it; maybe another time.
9. Thanks for thinking of me, but I can't.
10. No, thanks.

Ways to Congratulations

WAYS TO SAY CONGRATULATIONS

- English Study Page
- Well done!
 - Good job!
 - You did it.
 - Good for you!
 - That is great.
 - That is good.
 - Sensational!
 - What a good try.
 - Felicitation.
 - Way to go.
 - Greetings.
 - That is clever.
 - Tremendous.
 - Outstanding!
 - Fantastic.
 - Nice going.
 - I am impressed.
 - I knew you could do it.
 - Keep up the good work.
 - That is better than ever.
 - That is first class work.
 - You did it that time!

On vs In

ON



a plane



a ship



a bus



a train



a bicycle

IN



a car



a helicopter



a truck



a taxi



a limo

**CAN STAND UP
INSIDE**

**CAN'T STAND UP
INSIDE**

Asking for Clarification

USEFUL LINES in emails when asking for clarification

- I didn't/don't fully understand [something]. Could you please explain that again?
- I didn't quite get your point about [something]. Could you be more specific?
- Could you repeat what you said about...?
- Could you give us some more details on...?
- If you could please shed some light on this topic, I would really appreciate it.
- Could you please clarify [something]?
- Could you please clarify when you would like us to finish this?
- When exactly are you expecting to have this feature?
- Here are the details on...
- Could you please clarify what you would like us to do about...?
- If I understood you correctly, you would like me to...
- What exactly do you mean by [something]?
- Could you explain what you mean by [something]?
- In other words, would you like us to...

source: blog.talavera.com

ASKING FOR CLARIFICATIONS

- Could you be more specific?
- I don't get it...
- Can you elaborate on that?
- I don't quite follow...
- I don't fully understand...

ASKING FOR REPETITION

- I didn't catch that.
- Could you repeat please?
- Can you say that again?
- Would you mind speaking more slowly?

EXPLAINING YOUR OWN MESSAGE AGAIN

- In other words, ...
- To put it another way...
- To be more specific....
- Let me clarify that...
- Let me restate that.
- Let me start over.

CHEKING YOUR OWN UNDERSTANDING

- Just to be clear, you're suggesting that...
- Well, you're saying that...
- If I get you right, ...
- Correct me if I'm wrong, but you're saying that...

Wait

How to say WAIT

@efl_ana

<https://anaseslblog.blogspot.com/>



On the Phone

PHRASES FOR TALKING ON THE PHONE

Formal

- Good morning.
- I'm afraid he's in a meeting.
- Thank you for calling.
- Would you like me to connect you to his voicemail?
- I'm afraid she is not available at the moment.
- Can I put you on hold for a moment, please?
- Would you mind holding for just a moment?
- May I ask who is calling, please?
- I'm trying to contact, please wait...
- I'm afraid my English not good, please...
- Could you hold on a moment, please?
- I'm sorry, she is out of the Office today.
- He's free in the afternoon after about two.
- I would like to make a reservation, please.
- Excuse me, who is this?
- May I speak to...?
- May I take a message?
- Would you like to leave a message?
- I'd like to talk to ...

Informal

- Is ... there?
- This is Harry
- Hello, Ken speaking
- Hello, George's phone
- Who is it?
- I'll ask her to ring you when she gets back.
- Hang on a second.
- I can't hear you very well.
- Who's calling, please?
- I'll let him/ her know that you rang.
- Just a minute!
- Okay, wait a moment, please.
- Speak to you again soon.
- I'll put you through.
- Is ... free?
- Can I talk to ...?
- Hold on a sec.
- Just a moment.
- Is ...available?



ASKING FOR INFORMATION

- I'm looking for...
- I'd like to know...
- Do you know...?
- Could you tell me...?
- Can you tell me...?
- Do you have any idea...?
- I don't suppose you know...?
- I'm calling to find out...
- I wonder if someone could tell me...?




- Do you happen to know...?
- Have you got an idea of...?
- Don't suppose you (would) know...?
- Can I have ... please?
- Is this right way for ...?
- Would you mind...?
- Could anyone tell me...?
- I'm interested in...
- I wonder if you could tell me...?
- I was wondering...


WAYS TO SAY YOU ARE WELCOME

- Not a problem.
- Cool.
- It's my duty.
- Not at all
- Glad to help.
- Anytime.
- That's all right.
- Never mention
- It's all gravy.
- Glad to have helped.
- My pleasure.
- Glad to be of any assistance.
- I'm happy to help you.
- That's absolutely fine.
- No big deal.
- By all means.
- Forget it.
- No worries



Make & Accept an Apology

MAKE & ACCEPT AN APOLOGY	
Making an Apology	Accepting an Apology
 <p>Excuse me for...</p> <p>I apologize for...</p> <p>I beg your pardon. /Pardon. /Sorry.</p> <p>I do apologize for</p> <p>I must apologize for...</p> <p>I shouldn't have...</p> <p>I was wrong. Can you forgive me?</p> <p>I'm ashamed of...</p> <p>I'm so sorry for...</p> <p>I'm terrible sorry for...</p> <p>It's all my fault.</p> <p>Pardon me for this...</p> <p>Please accept my apology for ...</p> <p>Please excuse my...</p> <p>Please, forgive me for my...</p>	 <p>That's all right.</p> <p>Never mind.</p> <p>Don't apologize.</p> <p>It doesn't matter.</p> <p>Don't mention it.</p> <p>Forget about it.</p> <p>No need to apologize, it's ok.</p> <p>No harm done.</p> <p>No worries.</p> <p>No problem.</p> <p>It's not important.</p> <p>You should be, but I forgive you.</p> <p>That's all right.</p> <p>It's all fine.</p> <p>I understand.</p> 



Writing an Email



Writing an Email

Opening

- Hi Samuel!
- My dear father...
- Dear Alex...
- Hello Michael...
- Dear Mr, Mrs, Ms...
- How are you?
- How's life treating you?
- How's life?
- How are things?
- Any news?
- Anything strange?
- What are you up to these days?



Expressing Thanks

- Thanks a million for...
- Thanks a lot for...
- Cheers for...
- I really appreciate it.



Giving News

- Guess what. I've...
- I've got some good news, my friend.
- Great news Mary, I've...
- Unfortunately, I've got bad news.
- I'm afraid I have some bad news.
- Bad news Mary.



Closing

- Well, that's all for now
- I'd better get back to work here
- I must go
- Looking forward to...
- Take care
- All the best
- All my love



ESLTeacher.org

Accept or Refuse an Offer

lines to use when you have to

accept or refuse an offer

Accepting the offer

Yes please. I'd like to.
That would be very kind of you.
Yes please. That would be nice / lovely.
Thank you. That would be great.

Examples:

'Can I help you?'
'Yes, I hope so.'
'Shall I get you something to drink?'
'Yes. That would be nice.'
'Would you like some coffee?' 'No, thanks.'
'Would you like me to wash the clothes?' 'No, thanks. I'll do it myself.'
'How about some juice?' 'Yes, please.'
'Shall I help you with the housework?' 'Yes, please. That would be very kind of you.'
'Would you like me to do the washing for you?' 'If you wouldn't mind.' (= If you wouldn't mind I would you like you to do the washing for me.)'
'Is there anything else that you'd like me to do?'
'No, nothing.'

Rejecting an offer

No, thanks.
No, thank you.
Don't worry, I'll do it myself.
It's OK. I can do it myself.



source: <https://www.englishpractice.com/>

Go to  GrammarCheck.net

Catchphrase

- You there? ??

What's up?
怎么样？/有什么事吗？

For real?
真的吗？

Oh, snap!
哎呀！（表示惊讶）

How's it going?
近况如何？

Totally.
完全的。

Duh!
哎呀！（表示恍然大悟）

Long time no see.
好久不见。

No way.
不可能。

You know it.
你知道的。

No worries.
别担心/没问题。

Easy peasy.
轻而易举。

Sounds good.
听起来不错。

No doubt.
毫无疑问。

Let's do this.
我们开始吧。

I got you.
我懂你/我帮你。

Just saying.
我只是说说。

Keep it real.
保持真实。

Figures.
难怪呢。

It is what it is.
事实如此。

I'm with you.
我同意你/我和你一起。

Peace out.
再见。

Word.
没错/说得对。

My bad.
我的错。

Holla!
嘿！/打招呼。

Bet.
当然

Whatever.
随便吧。

On point.
很到位/准确

Literally.
真的/确实。



口头禅

Phrases

- I'd like to **take a personal day off** next week; ????
- May I **have three days off** next week; ????
- He is on leave; ????
- perform the following checks to **determine** whether a device may have been compromised ????????????
- head over to ; ??
- As such ??; ??
- Here you go. **Keep us posted on** your progress. ??????????????
- **enable you to** see the whole city ?(?)???
- **Interpreted languages** like Pthon, Ruby ?????
- **A good number of** distros have already begun including PipeWire as a default audio service. ???;???
- Once you **exhaust** the credits, you need to pay for access to the API. ??;??
- Kindly have a look ?????
- Moreover; Furthermore ??;??
- What can I help you with? (???????????)
 - Is that so? (???)
 - I thought so (?????)
 - What should I do? (???????)
 - What might be the problem?(??????????)
 - I'm sorry to have **kept you waiting** (??????????)
 - What time is **convenient** for you? (????????)
 - What time would be **more convenient** to contact you? (??????????????)
 - I'll **be in touch with** you tomorrow (????????????)
 - We're going to have to cancel our meeting next week, **I am afraid** .(????????????????)
 - I have one issue right now that needs to **be addressed** ASAP.(??????????????)
 - If you **experience difficulties**, please visit our support forum.
- Any DNS **misconfiguration** will **result in** email not being delivered.
- **Most importantly**, you learn when and where to apply a particular **technique**. (??????????????...)
- I wasn't yet ready to **leave the comfort zone** TensorFlow had created and try out something new. (??????)
- There's also C/C++ for the IoT devices, which talk to these cloud services using MQTT or HTTP, **as the case may be**. (??????)
- All nodes still on testnet **is likely due to** some issue **stated within** this article
- **leaving out** some critical information (??????)
- Most of the other information I found on the internet is also **quite incomplete**. (??????)
- **Reproduce** your issue (????????)
- As an example, (?????)
- New **technique** (???;???;???)

- As of kernel version 2.4.13 (? kernel 2.4.13 ?)
- Please be aware of potential scammers.
- formerly known as XXX (?? XXX)
- Turn key solution (????)
- easy-to-use, self-hosted (?????????)
- One day left (???)
- How's going with your project?
- It is highly time consuming (????)
- How is it going?(??????/??????/?????)
- It's a good thing and possibly something bad (?????????????)
- When the power goes out (????)
- Purchase a sizeable on-premise server to support ML. (????)
- Someone got sick,
 - Hope you get well soon (???????)
 - Take care of yourself and getting well soon
 - Hoping you feel better soon, Stay strong and get healthy
 - Sorry to hear it, Rest up
 - nothing is as important as your health and well-being, and that of the people you care about.
- I clicked it and nothing happened
- Be careful of scams (????)
- examining the CPU usage on each node (??...)
- Can you be more specific? (????????????)
- admin please kick this guy out before anyone got fraud (????????????????????)
- Hoping everything goes well with you (????????)
- Many years ago Google deprecated its own images search AP (... ??/????...)
- What am I doing wrong? What should I be doing?
- Ubuntu 18.10 Will Ship with an Older Version of Nautilus (...??...)
- Devs chose to include Nautilus 3.26 rather than the newer v38 release. (...???)
- I ended up creating a new tablespace...(???????????? tablespace...)
- ends up in rubbish (????????)
- A user's data ends up being the product (????????????)
- I will take into consideration (????????)
- I will keep you posted | Absolutely will keep you posted (????????| ?????????)
- a Neural Architecture Search algorithm will automatically search for the most optimal architecture and corresponding parameters. (????)
- Waiting for HP System Insight Manager to be fully started (?? HP SIM ?????)
- This problem is being handled. (????????)
- No Single Point of Failure (?????)
- Something has gone wrong with the server (Server ?????)
- take ownership of them (????????)
- one-off payment method (????????)
- Typically, open source solutions are a good option for those with a strong technical background and familiarity with Linux, script programming, networking, and telephony technologies. (...????????????????)
- Is that a glitch (????/??/????)
- It has been a great week! We haven't had any system glitches at all .(????????????????????)

- I had expected **a few glitches with the new system**, but **to my surprise**, everything **went smoothly**. (????????????????????????????)
- **It was a mistake** buying that house. (????????????)
- I'm sorry I took your phone **by mistake**. Here it is. (????????????????)
- In the **near future** (??????)
- it **makes no difference** (????)
- The password is **case sensitive** (????????)
- **There can be** some dangers. (???...)
- We don't need it **any more**. (????????)
- **individual** extensions (?????)
- the **respective** examples (???;???)
- will not **take up** disk space (????????)
- By **following** these steps (??????)
- **Follow** the instruction **to** change your password (????????????)
- run the following PHP code and **examine** the output for the TLS version (????? php
?????? TLS version)
- \$99 **PLUS TAX** (??)
- Shipping / Shipping Cost (??)
- Let's say (???,???,??)
- I'm **heading to** work, I'm **heading to** bed (?????, ?????)
- The website is **compromised** (???)
- I feel it's already **out of hand** (????????????)
- We're currently **experiencing** an **abnormally** high volume of traffic.(??????)
- We've done quite a bit of benchmarking (?????????? benchmarking)
- You have plenty of options, including an official option from Google (????????????
Google ????)
- LibreOffice is an alternative to Microsoft Office.
- Even if they are compromised the rest of the system will remain secure.
(????????????????????)
- Any luck getting modification done? (?????)
- If this is confusing you, (????????)
- Let's get on the same page. (????????)
- We need to make sure we all stay on the same page. (????????????????)
- I still had to solve the problem of loading the iptables rules on boot (iptables ???????)
- With the default settings fail2ban is creating the block rules into.. (?????? failban
???)
- I export using Jpeg x 4 250s and it appears to go through the procedure, opens the
export folder, but there's nothing in it. And, my bank says nothing has been exported.
(..??????... ?????????... ??????)
- It's getting late (?????)
- So then (????)
- No APP required (??? APP)
- Out of the box (????)
- Most recently, (??)
- Scam mail (????)
- As so far.... (?????)
- Just curious, (????)
- Alternatively,(??...)

- A compromise workaround (?????????)
- Both servers are identical (?????????)
- from scratch; from the ground up (????)
- PHP Fundamentals (PHP ??)
- Not sure what happened (?????????)
- nat=yes is **deprecated**, use nat=force_rport,comedia instead (???..)
- It's been a couple of weeks since you activated your free account.(????????????????)
- it can accommodate both M.2 and SATA storage solutions **simultaneously**. (???)
- To **turn it back off** I have to disable Remove Dropdown Arrows and then enable it again until once more it randomly reappears out of nowhere. (????...??? ... ????)
- **Not sure exactly** what was the issue (?????????)
- If you really added the datafile **by mistake** (????????? datafile)
- Not sure of (???...)
- If everything **has gone to plan**, ...(..?????????????)
- There are some differences of which you **need to be aware** (????????????)
- I am **not aware of** it (????)
- The RAID array is now almost complete.
- five largest PC manufacturers (.. PC ???)
- move on to the next lesson in the course (??;??)
- move up to more advanced network architectures (???)
- I no longer want to receive these emails. (????????????????)
- No need for telephony hardware (??????)
- I will give a try to Csipsimple (????? Csipsimple)
- Thanks for all your help (?????????)
- Added Paypal functionality to your Joomla (??? Joomla ??? Paypal ??)
- I did speak with my cisco reseller (??cisco?????)
- How soon can you get started?(?????????)
- My desktop computer is rather noisy (...???)
- Please do me a favor (?????)
- If you qualify, ... (?????????)
- As stated (???? ...), As intended(????), As requested(????), As expected(????)
- In the meantime ... (???? ...)
- Turn Wordpress into Techmeme (? Wordpress ?? Techmeme)
- The called party ... (??????)
- Brute force attacks (????)
- results as follows (????)
- certain features (????/??)
- Legacy Phone System (??????)
- In particular , particularly (????????)
- I hope you are satisfied with our support (????????????)
- I'm going to get off work (?????)
- What does 'X' mean? (X ?????)
- I am on leave today (?????)
- T.38 is not currently supported (T.38 ?????)
- I can't recall anyone reporting... (?????????....)
- If I recall correctly,..(?????????,...)
- I'm stuck with a particular issue (????????????)

- You are required to provide an explanation in Question 5 regardless if ... (???????? 5 ??????????)
- I want to make a backup of /dev/sda in case it messes up my system. (????? /dev/sda ??????????????)
- Linode suffers much more DDoS attacks. (????? DDoS ??)
- How does SoftLayer protect my servers against distributed denial of service (DDoS) attacks? (?? DDos ?? SoftLayer ??????????)
- I never implied that you had claimed the installer was open source. (????? ????? Installer ? open source)
- I may reboot my entire office network system tomorrow and observe again (?????????????????????)
- then run through each of the following commands in order (?????????????????)
- Citrix XenApp, formerly named the Citrix Presentation Server (Citrix XenApp ????? Citrix Presentation Server)
- **IMPORTANT:** I'm **NOT** responsible for any bugs caused by custom-made fixes/additions/tweaks. You use them at your own risk and responsibility! (?????)
- These are mostly trac files (????/??? trac ??)
- We have a DTMF issue with digits not being recognized by some destinations. (???????????????????? DTMF ??)
- You will need to provide a suitable server. (?????????????????)
- How would I deliver the ringtone to a Digium phone? (??????? ringtone ??? Digium ???)
- I will try to explain as best I can (?????????)
- I just noticed that you have already been hired for the same project. Please ignore this 2nd invite. Apologies for the confusion. (?????????...??...??...???)
- We are in need of billing software which will be capable of doing LCR. (...??...???)
- I have looked around for documentation and had a quick search on the forum but I can't seem to find a definite answer. (?????????????????????????????????)
- If the customer used 100 minutes on the first month of service and has 10 minutes left to call. (??????? 100 ????? 10 ?????)
- You will **more than likely** either want a DHCP reservation or a static IP address for Proxmox (?????)
- Folks from Twilio have confirmed they are trying to move away from Asterisk, I suspect to Freeswitch. (Twilio ??????????????Asterisk????? Freeswitch)
- we constantly preach never directly exposing any ports on your Asterisk® server to the Internet without implementing a WhiteList of safe IP addresses. (???????????????????? IP ????????????? Asterisk ?????? port ?????)
- After I logged in to the GUI, it was continuously refreshing the web browser and trying to load the configurations. (????GUI?????? refresh ??????????)
- Be sure your server is behind firewall with NO port exposure (???????????? port ??????????)
- while the focus of this article is aimed at MS SQL the same steps(with a few tweaks) can be used for connecting to Postgre, Sybase, MySQL, etc... (???????????????? MS SQL???????????????? Postgre, Sybase, MySQL)
- Digium claims no support for g729 outside of x64 and x86 architecture. (Digium ?????? x64 ? x86 ?????? g729 ????)
- users doesn't show up in 'sip show peers'(users ?????? sip show peers)

- Raspbian claims to have "35,000 Raspbian packages", which is great, but I'm only looking for a package or two before I install it. (Raspbian ??? 350000 ???...)
- Can anyone point me in the right direction? (?????????????)
- While it doesn't appear to be actually affecting anything, I'm curious to know what the error represents,
where it's coming from, and of course, if there is a fix for it. All info appreciated,
thanks! (??)
- What changes were made to the system so that these warnings occur?
(????????????????????????????????????)
- Does anyone know what happened to the freepbx.org website and when it's coming back online? came back up (.... freepbx.org ??????????????????????)
- I keep getting these messages over and over again. (?????????????)
- the dialplan can determine the B channel currently in use by the channel. (dialplan
???? B ??????????????)
- I suspect that they are using this list to harvest email addresses (?????????????????????????????)
- We assume that you already have a ComodIT account properly setup
(????????????????????ComodIT???)
- Virtualbox is much more cost effective for experimentation (????? Virtualbox ?????????
)
- I tried even yum update in the end, and no go (????????? yum update, ??)
- I got the client approval for 1 hour (????????????1??)
- We need someone with experience of Asterisk, vb.net and mysql.
(?????Asterisk,vb.net ? mysql ?????)
- be advised (???) ? advise (???) ??
 - Please be advised (we are telling you) that your library card is **out of date**. (??)
 - Please advise (tell) us when you would like to attend.
- "Going to be making" probably sounds a bit more natural than "going to be doing"
(Going to be making ??? going to be doing ????)
- It hasn't been maintained for quite a while. (?????????????????)
- There are a few issues we are stuck on - mainly that we cannot get inbound caller ID
working. (?? inbound caller ID)
- I got rid of the phplib_id and replaced with a concat of username and domain. (????
phplib_id ?????????? usernam ? domain ??????)
- My understanding of RFC2833 is that line level issues should not affect it.
(?? RFC2833 ??????????????????????????????)
- In certain situation(for example: an urgent matter or asking for customization) you
may contact me directly by email. (????????? ????????????????????????????????? email ?????)
- If you have sufficient memory (more than 2.5GB in our case), you could cache the
whole table. (?????????????(?? 2.5GB), ?????????? Table)
- All steps must be documented and a manual supplied upon completion on what was
done to complete the project. This is required for our troubleshooting.
(??)
- You have probably encountered this bug: "Wrong 64-bit dependencies on 32-bit
version of Ubuntu". It's being worked on. (????????? bug: XXXX. ????????)
- The Export utility has finished exporting "43970051" rows. (Export ?????????? xxxx
???)
- Something went wrong here (?????????)

- I was using FreePBX 2.10 but I guess it doesn't quite matter as I am using a custom context anyway. (... ?? ????? ??...)
- unless you're claiming the code is GPL compliant. (...?? GPL)
- We currently have several Asterisk projects on going, we need someone that has experience with Asterisk to move on with those projects. (... ??????)
- The import process will take several minutes to complete. (?????????????)
- The Oracle VM guest will temporarily appear in the Unassigned Virtual Machine folder. (Oracle VM guest ?????? Unassigned Virtual Machine ?????)
- I can't be certain though, because I don't have the proper data. (?????????????????)
- when you're trying to achieve 5 9's of reliability(99.999%), which equates to 5 minutes, 15 seconds or less of downtime in a year. (... 5 ? 9 ?????(99.999%, ????????? downtime 5 ?15? ???)
- I thought it is my firewall setting, turns out it is filtered by datacenter. (???...???...)
- Because Asterisk is open source, you have the freedom to make it your own. (...?????????)
- I am in search of someone to help set up for a 10 user call center. (????...)
- It's made up of two parts, our custom PCB being a hardware platform that makes use of the Blackfin CPU architecture and our software that runs on this device. Essentially a small footprint version of the Asterisk PBX system (???????????? ??????PCB ????? Blackfin CPU ?????????? ?????????????????? ?????????? Asterisk PBX ??)
- As others suggested, see if there is some error into the alert log. (???????????????????? alert log ?)
- What version of Asterisk? Where are you seeing the data you display above? (Asterisk ??????????????????)
- We wish to give free email accounts to our 10,000+ customers. Essentially just like free accounts from gmail, hotmail, yahoo, etc. (????? 10000 ?????????????????????? gmail, hotmail, yahoo ??????)
- I have been fighting all night with version 1.8 and have not found a way to do this with any command. (????? 1.8 ??????????????????????????????)
- Need a system administrator to handle various issues that come up on my system. (?????????????????????????????)
- The Open Source Asterisk software has become very well known and is now one of most widely used solutions in the world. (????? Asterisk ??????????????????????????????)
- How can I promote myself to make customers more likely to accept my bids? (?????????????????????????????)
- If you see a log file that shows no errors, you're done. (????? log ??????????????????)
- I tried your hack but somehow it give me some errors so I have not make it work yet (?????????, ??????, ??????????????????????)
- I have made the changes as requested. Please let me know what you think (?????????????????)
- There already are nearly 50 available Android applications(mostly free) that you can display on your watch. (????? 50 ????? Android APPs(?????) ??????????)
- VMware Workstation provides a seamless way to access all of the virtual machines you need, regardless of where they are running. (VMware Workstation ??????????????????????????????)
- Job was not as described (?????????)
- Database Lookup Advice (?????????)

- If you will hold for a moment, Mr.Smith, I will check to see if Mr.Wang is available.
(Smith ?????????????????? Wang ????????)
- I just want to get some clarification. (?????????????)
- You must have a solid knowledge about Linux Administration and know a lot about how to get web services running. (?????? Linux ??????????????????????)
- For those who are doing commercial PBX installations, and regularly run into the issues of NAT, and one way audio, particularly where both ends are behind NAT, OpenSBC could be the answer.
(??????????PBX???????? NAT ????????????????????? NAT ???OpenSBC ??????)
- This doesn't belong in extensions.conf (????? extensions.conf)
- I might be able to assist (????????)
- Does it come with warranty (??????) come with ?, ??
- I think this Asterisk does not come with G729. (?????Asterisk ?? G729)
- Problem with outbound dialing from remote phone (?????????????)
- I can't ping it **nor can** I bring up the web interface (???? ping ??????????????)
- No additional hardware is required (????????)
- What would be the best approach? (????????)
- I need Trixbox 2.8 and 2.6 version to be installed on OpenVZ server (????? Trixbox 2.8?2.6 ? OpenVZ ???)
- Everything is going nicely(fine/well)) except that I can't get NV_FAXDETECT to compile properly into 10.0. (???????????????? NV_FAXDETECT ?????? 10.0)
- How do I avoid this error coming up again? (?????????????)
- When we then hangup and redial immediately, the calls do not go through, we then have to try to redial a couple of times and then it suddenly gets through. There is nothing in the verbose log with asterisk -rvvv.
(?? asterisk -r ? verbose log ??????)
- There was no issues for both incoming and outgoing calls till yesterday
(????????????????????)
- What's wrong with this command? (?????????????)
- Need further clarification to give the quote (?????????????)
- I'll ask him for his ideas too (????????????)
- You are supposed to be at station at nine (????????????)
- You were supposed to call me when you got home (?????????????)
- We do not recommend using CentOS at all (?????????? CentOS)
- Please note that as compared to old generation modem based fax applications ICTFAX is more efficient, reliable and easy to maintain.

Phrases 2

- before we're **done with** for loops, let's **check out** some **common mistakes** you may **come across** while trying this yourself. ????? for ?????????????????????????????????
- iterate ; iteration ; iterable
 - a certain type isn't **iterable** ??????????
 - stop the **iteration** process **early** ?????????
 - A for loop **iterates over** each element. for ?????????
- you are able to **examine** each **individual** element in the string and **manipulate** it **how you'd like** ?????????????(??)????????????????
- Python does not **consider** "567.89" a number Python ???567.89????????
- You can't **mix** single and double **quotes** in the same string **or** you'll get a syntax error ?????????????????????????????????
- Select the correct **iterative** statement ??????????
- **Unintended** infinite loops, **Unexpected** infinite loops ???????
- Why initializing variables **matters** ??????????
- Can you **work out** what this function does ??????????
- A while loop will **continuously** execute code **depending on** the value of a condition. while ??????????????????
- learn how to **leave** the loops **up to** the computer ??????????????
- organize;structure
 - how to organize our code and functions
 - how to structure our code and functions
- Is it even **practical** to **avoid** systemd any more ??? systemd ??????
- **Unfortunately**, some of these services **don't have an alternative** any more ?????????????(??)?????
- Many of the **complaints** people **make about** it ??????????
- **Much like** how **decisions** affect different **outcomes** in our **everyday lives** ??????????????????????????
- her prospect will want a **follow up meeting** to **further discuss** her company's proposal ??????????????????????????????
- If Maria **closes a deal** with a **major potential client**, her boss will reward her with a **raise** to acknowledge her hard work ?? Maria ?????????????????????????????????
- at least;at most
 - Invalid username. Must be at least 3 characters long
 - Invalid username. Must be at most 15 characters long
- remember that this **technique** can **only be used** when you're returning a value **inside** the if statement ????????????? if ????????
- Companies can set different **criteria** for what a valid username looks like. ??????????????????????
- the result is a **Boolean** of the **appropriate** value ??????????????

- **Refactoring** code - a process to **restructure** code without changing functionality ?????
- ??????????????????
- This **principle** can be applied to all **aspects** of writing code from picking your variable names to writing **clear concise** expressions.
??
- argument; parameter; variable
 - The type() function returns the data type of its **argument** type() ??????????????
 - we can **pass** values into a function as **parameters** by passing values like the name or department in the example **earlier**
??
- Let's make it do a little more ??????????
- All those functions **come as** a part of the language, and we'll look into **a bunch of** other **built-in** Python functions **throughout** this course ???????? Python
???????????????????????????????????? Python ??
- **It's like** giving yourself and other developers **hints** about what kind of data the variable **is supposed to hold**. ?????????????????????????????????
- **As you get more familiar with** Python, you'll be able to **communicate** more **efficiently** **with** computers and **do more with** your data analysis tools ??? Python
??
- you'll **surely make progress** as a Python learner ?? Python ??????????????
- there are a few **guiding principles** and resources that can **help you along the way**.
????????????????????????
- **Conditional** statements: Sections of code that **direct** program execution based on specified **conditions** ?????? ??????????????????????
- **getting familiar with** its fundamental syntax and semantics will be useful for your **future career** ??????????????????????????????
- The same is true for programming ??????????
- We **went through** a lot of new concepts and it might **take several passes** until you **feel comfortable with** them ???
- Code editors and IDEs are **essential** for writing **efficient** Python code. ???????? IDE
??????????? Python ??????????
- It is a **popular** IDE that many developers use and **love**
- It is **great for** beginners because it is **easy to use** and has **a large community** of users **which means** there are **tons (lots) of** tutorials and resources **available** online
??
- **Overall**, PyCharm is a great choice **when it comes to** an IDE. ???????? IDE ??PyCharm
???????
- An IDE is a software application that provides **comprehensive facilities** for software development IDE ??????????????????????????????
- Now it's **your turn** to try! **Give this a go** yourself. ????(?)?????????????
- We won't **get into** these in this course but if you want to learn more about them **on your own** ??????????????????????????????(???)???????
- Python actually has a lot **more advanced** numeric **capabilities** that are used for data analysis, statistics, machine learning, and other **scientific** applications Python
??
- You might need to count how many times a **certain** word **appears** in a text, or **work out** the average time it takes for **an operation to complete**
??

- you could **have the program ask** you for data interactively ??????????????
- There are **platform-specific** scripting languages like PowerShell which is used on Window ?????????????? Window ??? PowerShell
- There are also **general-purpose** scripting languages **similar to** Python ??? Python ??????
- **There's almost always** someone on the Internet who's **trying to do what you're doing** and can help **point you in** the right direction when **you're stuck**.
????????????????????????????????(???)????????????????
- **Not only that**, but it's also **used in** fast-growing **areas of IT** ?????????????? IT ??
- The **most important thing to remember** is that you're never alone. ??????????????????
- It's **really important to keep in mind** that even experienced programmers may need to ask a colleague a question **from time to time** or look something up on the Internet
??
- classmate(s);teammate(s) ??;??
- So if at any point you **get stuck**, don't **get discouraged**. **Making mistakes helps you improve**. **The more** you **see** failure or **broken code as** an opportunity to learn
??
- **A large part of** programming is learning through trial and error and asking questions.
????????????????????????????
- if you're **planning a career in IT**, **chances are** you'll interact with Python quite a bit.
???????? IT ????????? Python ??????
- Python **was considered** a beginner's language and **was mostly used for** teaching concepts or writing very small simple scripts Python
???(??)????????????????????????????
- can > may > could > might ?? (??)
- **Semantics** are the **meaning** and **logic** of coded statements ??????????????
- so it is important to **be mindful of** syntax when writing code ??????????????????
- If your code **results in** an error or an exception, **pay close attention to** syntax and **watch out for** minor mistakes ?????????????????????????????
- In the meantime, ; Meanwhile ??;????
- you'll want to install Python on your computer so you can run it locally and **experiment with it as much as you like** ????????? Python???????????? Python????????
- We'll be here to help you **check that** you've really **got your head around** these concepts with regular **quizzes** like this. ?????????????????????????(??)????
- If you **got most of** the questions **right**, great job. If not, **no worries** it's all **part of** learning ?????????????????????????????
- using a computer to perform a **certain** task. ?????????
- **human intervention** is required to complete the tasks ??????(??)????
- we'll be talking about when it **makes sense** to apply automation and exactly how you do it. ?????????????????????
- some tasks just **aren't suited for** automation. ????(??) ?????
- foundation;basic;fundamental ??;??
 - the **fundamental** concepts of computer programming ?????????
 - The program **is designed to** teach you the **foundations** of programming in Python
???????? Python ?????
 - **Throughout** this course, we'll be teaching you the **basics** of programming and automation ?????????????????

- Discovering and defining your own **career identity** makes you better equipped to choose a **career path** that **aligns with your strengths, values, and goals**
??
- you can **earn** the certificate **whenever** you finish ??????????????????
- When you **enroll in** the course ??????????
- Personal data will **be kept confidential**, with your name **separated from** your data
????????????????????????????????
- You'll get **hands-on experience** with programming concepts through **interactive exercises** and **real-world examples**. ??????????????????????????????
- The role of a sysadmin can **vary a lot from** company **to** company and even within different teams in the same company.
??
- **In any case**, this program is **tailor-made** for you. ??????????????????
- **tailored** to your needs ??????????
- automation; automate; automatically; automatic
 - automating repetitive tasks
 - automated processes complete instructions exactly as coded
 - Scripts can be used for automating specific tasks
 - the automatic system
 - understand their role in automation
 - focus on how this language applies to automating tasks in the world of IT systems support
 - we'll be talking about automation, which is the process of getting computers to automatically do a task that us humans normally have to do by hand
????????????????????????????????????
- So don't be afraid to make mistakes, it will give you a leg up. ??????????????????
- Working in IT is more than just a job. It's a career path ?? IT ??????????????????
- **The common thread across all of these roles** is **knowing how to** write code to solve problems and **automate solutions** ?????????????????????????????????
- Those who push themselves to learn how to code in Python typically saw strong **career growth**. ?????? Python ??????????????????
- **To be able to** take courses **at my own pace and rhythm** has been an amazing experience ??????????????????
- Commit to **experimenting with** AI for something that will make a real difference to you and your work ?????? AI ??????????????????
- Gen AI tools can help you get started with writing a program **from scratch** too. This can **save** lots of time and **boost productivity**. Gen AI
????????????????????????????????????
- carefully consider if you need to use **confidential or sensitive** information to perform your task ??????????????????(?)???????
- AI has helped **make me** more efficient and creative in my **daily work**, ?????? AI
????????????????
- add **a new capability to** start debugging directly from chat ?????? chat ??????
- Luis will **introduce you to** the ways that he **incorporates AI into** his daily workflows to do things like check code, understand system vulnerabilities, and more. Luis
????????? AI ??????????????????????????????
- In the **upcoming** series of videos you will **be introduced to** Luis ??????????????????
Luis

- You can also use generative AI to **augment routine tasks** ?????????? AI ??????????
- **simplify** day-to-day work; **streamline** communications ??
- offering powerful **capabilities** to analyze data, **streamline** communications, and make **informed decisions** ??????????????????????????????
- But this **functionality** is **mostly** not needed in an embedded application
????????????????????
- details that **quantify** an accomplishment ?????????????
- Everybody else is doing so much better ???????????
- Reflecting on your career **no matter where you've worked** ??????????????????
- **There's no way you can know everything.** We have people who work on those things across the company and **you don't have to know everything.**
??
- Those **folks** can support you, and they can also **be a great example of how far you've come** when you share your skills with them as well
??
- If your **internet service** is not fast enough **to allow for** a video interview, you can **request** a phone interview **instead** ?????????????????????????????????????
- you should download that software, **if you don't have it already** ?????????? (????????)
- **Typically**, the recruiter or hiring manager will **reach out to you** over the phone or email **to share** information **about which software will be used** for the interview
??
- you'll also be **going into detail** about your **knowledge of the profession** ?????????????
- you'll talk with the recruiter or hiring manager about yourself, **the kind of work or training** you have, and why you want the job
??
- It's important to **showcase** your best self in the introductory phone call
????????????????????
- It shows that **you're willing to** take the time to ... ???????????...
- You've learned a lot through this program that can **help you stand out as** a candidate
????????????????????????????????????
- What is an effective way **to stand out** as a candidate ??????????????????????
- can help **set you apart as a great candidate** for the job ??????????????????????
- If **you'd like**, you can let the company know that you appreciate the opportunity to be considered and that you'd be interested in any future roles that might be a good fit
??
- XXX and YYY are two **distinct** components XXX ? YYY ??????????
- improving model **accuracy**, reducing **hallucinations**, and **tailoring** LLMs for specific tasks ???????, ????????????? LLMs
- **While** fine-tuning may **be ideal for certain** use cases ??????????????????
- generative model; generation quality; generated response ??????; ?????; ?????
- Once the **most relevant** data points ???????
- an external knowledge source **in relation to** a user query ??????????????????
- My team **works closely with** our remarkable security experts??...?????
- It's likely that...; It's unlikely that... (???...; ???...)
- Python **considers a new line to** be a type of whitespace. (?...??...)
- we're going to **put together** everything we learned about lists and strings (?????)
- This process **is often referred to** as parsing(?????.../??...)
- This will allow us to analyze them **more easily**.(????)

- **Essential** Python components for **automation** ???/??; ????
- You could **incorporate** a conditional statement to only perform these actions if the device IDs meet **certain** conditions ???/??????/???
- you might **iterate** through a list of device IDs using a for loop ????
- you have just **been informed of** a new criteria for employee IDs. ????...?
- As one example; As an example (?????)
- Regardless of the **timeframe** ??????
- When new models are released you'll simply **swap** them **out without needing to** rewrite your **entire codebase**. (??; ???; ?????)
- Microsoft's Azure cloud services **experienced a significant outage**, causing **widespread disruption**. (????????, ?????????)
- with great power comes great responsibility (????, ?????)
- **At the moment**, there is no unified way (??)
- providing flexibility for **different usage scenarios** (??????????)
- **As shown** in the images provided (??????????)
- **requiring no** GPU / **without the need for** a GPU (??? GPU)
- to provide a **more comprehensive** toolset for users (? ??/??)
- if **incorporated into** LM Studio in the future (??/??)
- you have to deal with **plenty of** image files (???)
- Fortunately 16GB of RAM is **more than sufficient** for many home users. (????)
- which could lead to **false positives** (??????????/??/??)
- Does not **heat up** even under heavy load (????????????)
- then the issues started to **show up** (??????????)
- I have no idea **what's that for** (??????????)
- Thanks for your reply.
 - I appreciate your message.
 - I was so pleased to hear from you.
 - Thank you so much for responding to my email.
 - Thanks for getting back to me.
 - Thank you for the prompt reply.
 - Thank you for the quick reply.
- In simple words/In simple terms (????), In summary (??)

Cybersecurity

- Social media is a great way to connect to other security professionals in the **industry** ??????????????????????
- By **staying informed** about security trends, you can more effectively identify and **develop remediation strategies** to address a wide range of security challenges ?????(??)??
- engaging with the **security community** through various **security organizations** and conferences is a great way to stay up-to-date on current **security news** ???
- You don't have to know everything. You have **teammates** and other people that can help you with **areas that you're weak in** ?????????????????????????????????
- I **take courses**, try to **get certificates if I can along the way** ?????????????????????????????
- It's important to **continue to learn** in the field of cybersecurity because **things change all the time** ?????????????????????????????
- **always remember** not to click on **unexpected links** or attachments **sent from** unfamiliar users on social media. ?????????????????????????????????
- **Be aware of** social engineering ???????
- it's also important to **be mindful** that hackers use social media to **trick** users **into** giving up private information ?????????????????????????????
- Are you interested in **forensic security** or data logging ??????????????????
- focus on **reacting to security incidents** or preventing them from happening ?????????????????
- Security is a **constantly evolving** industry. As professionals in security, we must **evolve with** it by **seeking out** new information. ?????????????????????(??)????????????????????????????
- A few **well-known** security websites and blogs to get you started are ???????????? blog ?
- will help you **stand out to hiring managers** and could give you an **extra edge over other candidates** ?????????????????????????????????
- What **excites me about** the **security profession** is ?????????????????
- a few good resources for you to review **periodically**. ?????????????????
- As the industry **evolves**, it's **essential** to **stay up-to-date on** the latest **security trends and news** ?????????????????????????????
- As we **approach** the end of our program, ???/????????????
- we'll share some ways to **become involved with** the security community. ?????????????????
- we'll **identify** reliable security resources you can use to **stay up-to-date on** security news and trends. ?????????????????????????????
- how to **engage with** the security community, find jobs in the security field, create a resume, and **navigate** the interview process ?????????????????

- other stakeholders will be more focused on how **policies** and **procedures** are **working to prevent** cyber attacks????????????????????
- Juliana decides to **put together** a **detailed document** with **timelines** that clearly explain **what happened**????????????????????
- Juliana's manager **has also been informed** that????????...?
- Juliana's visual dashboard makes it easier for the **high-level stakeholders** to review incident #1 and determine **a course of action**?Juliana ?????????????????????#1????????
- Her dashboard will use charts and graphs **to relay** important information????????????????
- she used her company's **escalation** policy to **properly escalate** the two incidents????????????????
- escalation; escalate (??/??????/????)
- allow **decision makers** to determine how to address security issues that **put the organization at risk**????????????????
- allow security team members to **convey essential information** to stakeholders????????????????
- Those stakeholders and the security team can then work together to determine **how to address the issue**????????????????????/????
- **Based on** this information,????
- wants to know how many employees are often clicking on phishing emails. The goal is to **identify which five departments** click on those emails **most often**. ?????????????????????
- The audit gathered data showing **how many phishing emails** each department clicked **over the last five months**????????????????
- **Other times** you might want to include **a document attachment** that **further elaborates** on a specific topic.????????????????
- Security is often **a team effort**.????????
- **Visuals** help provide these **decision-makers** with **actionable information** that can help them **identify** potential risks to the organization's **security posture**. ?????????????????
- An entry-level analyst might **communicate directly or indirectly** with these individuals.????????
- Create visual dashboards for **impactful** cybersecurity communications????????
- If you don't receive **a timely response** from a stakeholder, following up shows initiative.????????
- It's important **to stand out** in the **security profession**, especially if you don't have previous experience in the industry.????????
- It sounds simple, but a friendly call can often **prevent a major issue from occurring** ?????????
- When appropriate, **take the initiative to follow up with** a stakeholder if they haven't responded to an email **in a timely manner**.????????
- **Direct communication** is often better than waiting days or weeks for an email response to an issue that requires immediate attention.????????
- that sometimes a simple instant message or call **can help move a situation forward**. ?????????

- This means they may sometimes **miss an email**, or **fail to respond** in a **timely manner**. ?????????????????????????????????
- **Be sure to** follow the procedures **outlined in** your organization's playbooks ??????????????????
- **Be mindful of** the sensitive information contained **in these types of communications**. ??(??)??????????
- we'll focus on **various communication strategies** that can help you **engage with** and **convey key ideas** to stakeholders ??????????????????
- **The ability to** communicate threats, risks, vulnerabilities, or incidents and possible solutions is **a valuable skill** for security professionals. ?????????????????????????????????
- **Senior-level stakeholders** might be more interested in the underlying risks, such as the potential financial burden of a security incident—as **opposed to** the details around logs ??????????????
- How do I explain the situation **in a nontechnical manner** ??????????????????
- your **immediate supervisor** ??????
- how it impacts the organization, and **possible solutions to the issue**. ??????????
- **It's essential** that communications are specific and clear?...??...?
- **Staying informed** about security issues helps stakeholders do their jobs **more effectively**. ?????..., ?????...?
- You **don't want them to have to** guess the reason for your email or why **it matters to them**. ??????..., ??????
- **keep** those top-level stakeholders **informed on** the security measures ??...????/??...?
- responsibilities; responsible for (??;?...??)
- there are **certain stakeholders** that the analyst will need to provide updates to (????????????????????)
- the security **measures** and protocols **in place** (????????????)
- **A big part of what you'll do** as a security analyst is report your findings to **various security stakeholders**. (????????????????????????????????)
- the individuals who have **a significant interest** in those **business operations: stakeholders**. (????????????????????)
- They're also **tasked with** creating security and **business continuity plans**. (????????????????)
- CISOs are **high-level executives** responsible for developing an organization's (????)
- Another stakeholder **with an interest in security** is the Chief Information Security Officer, or **CISO** (????????; ???)
- They are concerned about security from a **financial standpoint** because of the potential costs of an incident to the business.(????/??)
- because the decisions made **on a day-to-day basis** by stakeholders will impact **how you do your job** (??/??;??????)
- on a daily basis ?????
- the supervisor indicates that a data breach has **occurred** . This breach has **impacted** one of the **manufacturing sites** for the organization. ?????????????????????????????????
- the incident may be increased or decreased to a high or low **criticality level**. ??????
- **Suddenly**, you **notice** there's been unusual log activity in an app that was recently banned from the organization. ?????????????????????????????
- The **internal compliance** of an organization's data protection procedures. ??????

- Malware infections can cause a system's network to **run at unusually low speeds**. (????????????????????)
- a few incident classification types to be aware of: **malware infection**, **unauthorized access**, and **improper usage** (????????????????????)
- **Security incident escalation** is the process of identifying a potential security incident. (??????)
- you'll learn the importance of **escalating** security issues and the potential impact of **failing to escalate** an issue. (????????????;????????????)
- it has the potential to become a larger problem that **costs the company money**, **exposes sensitive customer data**, or **damages the company's reputation**. (????????????????????)
- From the **Chief Information Security Officer**, also known as the **CISO**, to the engineering team, **public relations** team, and even the **legal** team, every member of the security team matters. (???;???;???;???)
- it's important that you know how to **evaluate** and **escalate** incidents to the right individual or team when necessary. (????????????????????)
- I enabled debug logs in the service so I could **observe** what was going on (??/??)
- Penetration testing (pen test) (????)
- security mindset, security awareness (????; ????)
 - Your security mindset allows you to protect all levels of assets.
 - So having a security mindset helps analysts defend against the constant pressure from attackers.
 - Having a strong security mindset can help set you apart from other candidates as you prepare to enter the security profession. (????)
 - using fictitious emails to evaluate security awareness at the company.
- should **be escalated to a supervisor**. (?????)
- how to **escalate incidents** to protect an organization's assets and data (????)
- happen
 - after a security incident has taken place
 - in case a security incident does occur
- The role of a **security professional** is to ensure a company's data and **assets** are protected from **threats, risks, and vulnerabilities**. (????????????????????)
- business continuity and disaster recovery plans (????????????)
- Conduct **training** for the business continuity team (??...??)
- If you're **not sure of** the potential impact of an incident, **it's always best to** be cautious and report events to **the appropriate team members**. (???...; ??; ???????)
- When a security event results in a **data breach**, it is categorized as a **security incident**. (????; ????)
- if it was **compromised** (??????/??)
- Intellectual property (??)
- They can have a **significantly negative impact** on an organization if **leaked publicly**. (??????;????)
- Examples of confidential data include **proprietary information** such as **trade secrets**, **financial records**, and sensitive government data. (????;????;????)
- Access to confidential data sometimes involves the signing of non-disclosure agreements (NDAs)

- This data classification type is important for an organization's **ongoing business operations** (????)
- **Unauthorized access** to sensitive data can cause **significant damage** to an organization's finances and **reputation**. (????;????;??)
- personally identifiable information (PII), sensitive personally identifiable information (SPII), and protected health information (PHI)
- Public data, Private data, Sensitive data, Confidential data
- If **an individual** gains **unauthorized access** to private data(??;??????)
- Private data is information that should **be kept from the public**. (????)
- threats, risks, and vulnerabilities that are **posed by social engineering** attacks, such as phishing (????????...)
- such as **intellectual property, trade secrets**, PII, and even **financial information** (????;????;????)
- helps you **prepare for** the **worst-case scenario**, even if it doesn't happen(?...????????)
- cybersecurity profession????????
- cybersecurity professionals????????
- cybersecurity field????????
- **refine** your understanding of key security concepts???/???
- Writing code that assigns **security incident** tickets to the **appropriate** cybersecurity team based on its priority level. (????????????????????????)
- This **results in** DNS resolvers sending large responses to (??)
- which can **lead to significant issues** like **unplanned downtime** (??; ????; ????)
- can access **restricted** information (????)
- Security professionals **are often tasked** with reviewing log files(???/???/????)
- Automate cybersecurity tasks with Python
- removing usernames that match **specific criteria** from an access list.?????
- Make sure your browser **is up to date with the latest version**(????????????)
- it might be used to determine **whether or not to lock an account**. (??????)
- checks whether someone is allowed to **access a particular** file (??...; ??????)
- improve **efficiency**; allow it to work **effectively** (????; ????)
- use Python code to reduce the **manual effort** needed to manage an access control list(????;)
- **Throughout** this certificate you will use Qwiklabs and Jupyter Notebooks to complete **hands-on** activities????????
- Security analysts can access Python through **a variety of environments**??????
- The fast.log file is used for basic logging and alerting and **is considered a legacy** file format???...????
- The Network-based IDS application **inspects** network traffic from different devices on the network???/???
- When **suspicious** or **unusual** network activity is detected????????
- IDS (Intrusion Detection System) is an application that monitors activity and **alerts on possible intrusions**.????????
- Detection requires data, and this data can come from **various** data sources.?????
- It's important to know how to read and **interpret** different log formats so that you can **uncover** the key details surrounding an event and **identify unusual** or malicious activity.????????
- logs provide key details about activities that **occurred** across an organization????

- logs record events that **happen** on a network, or system.????
- intrusion detection systems; intrusion prevent systems (IDS;IPS)
- investigating an alert involving a possible **network intrusion**??????
- When **an outage occurs** due to a **security incident**??????????
- Business Continuity Plan?BCP ??????
- the three letters in the **CIA** triad stand for **confidentiality**, **integrity**, and **availability** ??????????????????
- ensure that you complete a **thorough analysis** so that you have enough information to **make an informed decision** about your **findings**.????????????????
- you'll receive and **assess** the alert to **determine** if it's **a false positive**??????/??????
- which prioritizes incidents according to their level of **importance** or **urgency** .??????????
- **Having previously investigated** the file hash, it is confirmed to be a known malicious file.????????????????
- The email body and subject line contained **grammatical errors**.??????
- **Tedious, error-prone, or time-consuming tasks** can be automated, while analysts can **prioritize their time with** other tasks.????????????????...?
- It is an example of a **non-automated playbook**, which requires **step-by-step** actions performed by an analyst.????????????
- This depicts the process for detecting a DDoS and **begins with** determining **the indicators of compromise**, like unknown incoming traffic.??????????
- Documentation must be **regularly** reviewed and updated to **keep up with** the evolving threat landscape. (????????????????)
- Incident response plans standardize an organization's response process by outlining procedures **in advance of an incident**. (?????)
- If a malicious actor compromised a system, evidence must be available to determine their actions so that **appropriate legal action can be taken**. (??????????)
- You **observe** a known user successfully authenticate a new device using two-factor (???; ???)
- Security terms
 - malicious actors (?????)
 - malicious activity (????)
 - attackers (???)
 - security incidents?????;?????
 - security analysts?????; ??????
 - security professionals?????; ??????
 - security profession?????
 - security field?????
 - the **suspicious** IP address (???)
 - **unusual** processes (????)
- IoCs may be the result of **human error**, **system malfunctions**, and other reasons not related to security. (????; ????)
- **baselines** help establish a standard of expected or normal behavior for systems, devices, and networks. (??)
- A **baseline** is **a reference point** that's used for comparison. (baseline ?...)
- Once **something unusual or suspicious** is detected (??????????)
- How could the company **prevent** an **incident** like this **from occurring** again????????????

- the stages of **incident detection**, investigation, analysis, and response????????????
- analyze the contents of **captured packets**??????
- The app should be **in compliance with** PCI-DSS.???/???
- developers **tend to** focus on **making** their applications **work correctly rather than** protecting their products from injection.?????..????????
- Malware?????
 - Virus????
 - Worm????
 - Trojan????
 - Ransomware??????
 - Spyware??????
- analyzing the **suspicious** message?????
- the group managed to **gain access to** the organization's network and internal tools.????????...????
- **Threat actors** use many different **tactics** to **carry out** their attacks.????????????
- **unauthorized access** to **restricted systems**.????????; ?????
- specific type of attacks that **cybercriminals** commonly use. (????)
- using fictitious emails to evaluate **security awareness** at the company. (????)
- **Keeping** software **updated** requires **effort**. (????????????)
- Vulnerability scanners **are meant to** be **non-intrusive**. (??; ????)
- Examples of **remediation** steps might include things like enforcing (??)
- We'll explore this step **in more details** (????)
- An employee reports that they **cannot log into** the payroll system with their **access credentials**. (????; ????)
- **Symmetric** and **asymmetric** encryption (????????)
- keep private; keep safe (????; ????)
- you'll review **the controls in place** to prevent data leaks. (????)
- **Periodically** auditing those accounts is a key part of **keeping** your company's systems **secure**.???; ??...???
- Score risks based on their **severity** (???)
- So much of the global marketplace has **shifted to** cloud-based services. (???)
- **As** the environment continues to transform, (?...??)
- Don't **get discouraged** now; Don't let anyone **discourage** you from cybersecurity. (????)
- **Suppose** you wanted to know what department the employee using ...????
- The **principle of least privilege** is the concept of granting only the minimal access and authorization required to complete a task or function. ????????
- we use u to **represent** the user, g to represent the group???; ???
- its output **indicates** that the working directory is logs ???; ???
- Although it **took some practice and time to get used to**, it has been one of the biggest tools ...????????????
- you'll **become much more familiar** with????????
- it **might happen** because we don't have the **appropriate** permissions to perform a command. (???)
- I **misspelled** the command????
- the bash shell is **the most commonly used** shell in the ...????????

- You might **examine** different types of logs to **identify what's going on in the system**. (??; ??????????)
- Almost everyone **learned on their own by experimenting** (??????)
- These **individuals** will **likely** already have experience using GUIs (???; ??)
- security analysts **commonly** use a CLI **in their everyday work** (??; ?????)
- using a GUI **is more like** ordering food from a restaurant. (??)
- Using virtual machines **can also be an efficient** and convenient **way** to perform security tasks. (?????????????)
- One more **aspect** to consider is that (?????????)
- The OS **is responsible for** ensuring that **each** program **is** allocating and **de-allocating** resources. (??; ??)
- **A variety of** programs, tasks, and processes **are** ... (????)
- The OS handles resource and memory management to ensure the **limited capacity of the computer system** is used **where it's needed most**. (????????; ??????)
- make sure all the resources of the computer are used **efficiently**. (???)
- Security analysts **should be aware of** vulnerabilities that **affect** operating systems. (????; ??)
- They run multiple applications **at once** (??)
- will be **an essential part of your job** as a security analyst. (?????)
- The **shared responsibility** model **states** that the CSP must take responsibility for... (????????)
- **Brute force** attacks are a **trial-and-error** process of guessing passwords. (????; ????)
- up-to-date; out-of-date (??; ??)
- security hardening **involves** minimizing the **attack surface** or **potential vulnerabilities** and **keeping a network as secure as possible**. (????; ??/?; ????; ????; ?????????)
- refer to; referred to as (??...; ????)
 - Software as a service, **refers to** software suites operated by the CSP that a company can use remotely without hosting the software.
 - it is **referred to as** a hybrid cloud environment.
- Open-source tools and **proprietary** tools (??/????)
- **Analyst; Analysis; Analyze; Analytic**
 - like machine learning or data analytics
 - As a security analyst
 - Splunk is a data analysis platform
 - Splunk Enterprise is a self-hosted tool used to retain, analyze and search the log data to provide security information and alert in real-time
- **From there** I **managed** to get myself into a security vendor and learn security (????, ??????????????????)

Cybersecurity 2

- ??(???)???(Writing effective **postmortems**)
 - What happened and when
 - Who was affected
 - What the root cause was
 - How the issue was resolved and when
 - Why it happened, including **improvement plans** or other **remediation actions** ????????????
 - ??: [502 errors for HTTP\(S\) Load Balancers](#)
 - ??: [Tips for Effective Postmortems](#)
- Disaster Recovery **Exercise** ??????
- an **incident response plan** is a document that **outlines** the procedures to take in each step of incident response ??????????????????????????????
- Security analysts monitor networks to identify **anomalies** and **suspicious** network traffic patterns ?????????????????????????????(??)
- we might ask Gemini to explain the **mitigation** steps **in more detail** or to **rephrase** any parts of the explanation that were confusing. ??????? Gemini ?????????????????????????????
- I've recently **become aware of** the following vulnerabilities: ?????(??/??)?????
- Cybersecurity professionals like us play a **crucial** role in **safeguarding** sensitive information. ?????????????????????????????????
- imagine **you're tasked with** enhancing the **security posture** of a non-federal system ??????????????????????????
- In the **fast-paced** world of cybersecurity, **staying ahead of** threats requires **leveraging** the latest technology ?????????????????????????????????
- **There's never a stupid question.** It's important for you to get information and the folks around you should be trying to support you and **help you succeed**, because they too will **succeed with your success** ?????????????????????????????????
- In the security industry, **you're never going to know everything**, and so it's important to stay flexible and fungible and to **ensure that** you're always learning because the industry **changes so quickly** and **evolves** so quickly. ?????????????????????????????????
- **Getting involved in** cybersecurity organizations and **associations** is a great way to ??(??)????????????????...????????
- When you feel **confident in** your abilities, you're **better able to** showcase your knowledge about the security industry and **demonstrate your ability** to work well with a team ?????????????????????????????????
- **In-person interviews** often **last** an hour **or so** ???????????????
- it **allows** the employer to understand **what choices you made** to achieve **your desired outcome** during **a real conflict** or **challenge** ?????????????????????????????????

- Learning about the organization's **culture** and mission and preparing to **demonstrate** how you can add value to the team are essential
????????????????????????????????
- appropriate; proper ???/???; ???
- Apply the **appropriate** patch ???(??)????
- To date, our investigation **has found no evidence of** our systems **being impacted**
????????????????????????????
- Cisco says that they **are continuing to investigate** the reports but **have found no evidence** their systems **were breached**
????????????????????????????????
- BleepingComputer again contacted this **third-party vendor** to **confirm if** they **suffered a cyberattack** but has not received a reply. BleepingComputer
????????????????????????????
- My **greatest strength** is **collaborating and driving efficiencies across teams** and **I have a talent for** crafting stories and creating marketing programs to successfully launch technology products
????????????????????????????????
- I am a content strategist and product marketer **with over 10 years of experience** helping businesses use new technologies to drive success
????????????????????????????
- I am **passionate about** empowering brands to find and use solutions that work for them and helping builders of new technologies develop even better, more effective products. And **most importantly, I value** having fun and **being collaborative, inclusive, and authentic** while I do it
????????????????????????????????
- you can interview a handful of **your peers**. They could be current or **former colleagues**, **classmates**, or even family and friends
????????????????????????
- So I **decided to** build a knowledge base of common questions and answers that my team could use **to not have to start from scratch** each time.
????????????????????????
- How can I help clean this up? How can I **make this more efficient**
????????????????
- You may not always be aware of your values, but they are always with you even if they shift over time. These are things like **integrity, responsibility, and kindness**.
????????????????????
- Your values reflect what's most important to you. They guide your approach to **decision-making, developing relationships, and overcoming challenges**.
????????????????
- Your motivations **stem from** your passions and your purpose
????????
- **I am also motivated** to help others to **express their own truths** through **authentic storytelling**
????????
- Your **strengths** are tasks and activities that you **do well** ???(??)????
- I then **invested a lot of time** in **developing this skill** throughout my life
- develop ??/?/?/?/? ?
- Your **career identity** is the **unique value that you bring to the workforce** based on who you are and what you have to offer now and in the future
????????

- the better equipped you are to choose a path that aligns with your strengths, values, and goals. ??????????????????????????????
- Remember, no matter what your life and work experiences are, we all have value to offer. ??????????????????????????????
- Research shows that having a strong career identity leads to positive outcomes such as improved job performance, greater commitment to a meaningful career, and even enhanced well-being and health.
??
- maybe you've developed skills like patience, empathy, and problem-solving as a result of caring for a family member ??????????????????????????????
- For example, maybe you're very detail-oriented or you're great at building relationships ??????????????????????????????
- One of the best ways to explore your career identity is to write your own career identity statement ??????????????????????????????
- Joining different security associations is a good way to connect with others.
????????????????????????
- Hi, Tim. I recently completed the Google Cybersecurity Certificate program, and I'd like to connect with other security professionals. It seems like you have a lot of experience in the security industry that I can learn from. Let's keep in touch!
- OWASP Top 10: A globally recognized standard awareness document that lists the top 10 most critical security risks to web applications ??????????(?)????? Web
??????????????????
- How can engaging with the security community help newcomers establish a security career ??????????????????????????????
- through networking and figuring out where my areas of interest lie, I actually was able to get into this field and grow and advance within this field
????????????????(??)????????????????????????????
- the importance of staying engaged with the cybersecurity community
??????????????????
- The security industry is always evolving, so it's important that security professionals continue to learn about the field (??)????????????????????????????
- let's discuss ways to effectively use social media to establish or advance your security career ?????????????????????????????(??)??????
- Social media is a great way to connect to other security professionals in the industry
????????????????????????????

Job Interview

Words

- In-person interview ??
- Phone screen ????
- Hiring manager ????
- Recruiter ??(??)??
- Employer ??
- Employee(s) ??
- Staff ??
- Candidate(s) ???
- Interviewer ???
- Job seeker(s) ???
- Recruiters, Headhunters, and Staffing Agencies ??????????????????

Before Interview

The following Strategies are effective ways to prepare for a job interview:

1. Review the job description
2. Practice describing your skills and experiences
3. Review your resume

Build rapport with interviewers

???????????

- Rapport is a friendly relationship in which the people involved understand each other's ideas and communicate well with each other.
- Building rapport begins with the very first interaction you have with the company's staff by phone, email, or video conference. It's important to use a professional tone in the email you write, expressing your interest in the job. But it's also important to be polite and friendly. Expressing appreciation for being considered and having the potential opportunity to interview is one way to build rapport.
- Phone screen ????
- During the phone screening and in-person interview, you can ease interview nervousness by engaging actively in a way that feels natural to you
?????????????
- When and if you have an initial phone screen, you can use a friendly, conversational tone of voice ??????????????

Prepare for the introductory call

It's important to showcase your best self in the introductory phone call. In this conversation, you'll talk with the recruiter or hiring manager **about yourself, the kind of work or training you have, and why you want the job**. You might also be asked specifically **about your salary requirements**. For this question, **it's a good idea to prepare in advance** and conduct an internet search for "average salary for entry-level security analysts."

During Interview

Answer Open-Ended Questions

STAR: An interview technique used to answer behavioral and situational questions
????????????????

Answer open-ended (???) interview questions with STAR method:

- **Situation** (??) is the project you worked on or a challenge that you had to overcome.
- **Task** (??) outlines the key responsibilities or role you played in solving the challenge described in the situation phase.
- **Action** (??) describes the exact steps you took to resolve the challenging situation you described.
- **Result** (??) , sharing the result of your challenge or example shows the employers how the situation was resolved as a direct result of the actions you took. *(Tip: if an employer asks you about a situation that didn't have a positive outcome, try to focus on what you learned from the situation and how that experience helped you become a better employee.)*

Tip #1

“ If an interviewer asks you to discuss **a skill that you don't have**, it's okay to admit you haven't learned it yet. However, the trick is to confidently mention that while you don't have that particular skill, **you're a quick learner and eager to develop that skill**.

Tip #2

“ Taking the time to fully understand a problem or question to provide the best solution or answer possible. When interviewing, **don't be afraid to ask the interviewer for a moment to think about your answer**. It shows that you're willing to take the time needed to understand the question and provide a

response that is meaningful and relevant.

Ask Questions

During the second half of an interview, the interviewer will ask if you have any questions for them. It's important to have some questions prepared to ask at this point.

- What is the biggest challenge I might face coming into this role and how would I be expected to meet that challenge?
- In what ways can I contribute to the success of the team and the organization?
????????????????????
- What would you say is the best part about working for this company?
- What is a typical day like for [an analyst]?
- What is the potential for growth in this role?

Panel Interview (????)

During the panel interview, you'll meet with two or more people and discuss yourself and your ability to contribute to the organization. If you're nervous about this, remind yourself that the team brought you in for the interview for a reason. When you feel confident in your abilities, you're better able to showcase your knowledge about the security industry and demonstrate your ability to work well with a team.

“ Be sure to engage with each panelist by giving them your full attention during the interview. Maintaining eye contact can help you express confidence, but for those who cannot do so, actively engaging with each panelist in your own way is just as important.
??
????????????????

It's likely that each panelist will ask you at least one question during the interview. It's okay to address the whole panel when answering a question, rather than only directing your response to the person who asked the question.

??

After Interview

Follow-up Email

It's nice to send a follow-up email a day or two after your in-person interview. It's also a good idea to mention something specific from your interview in this email. It shows that you were actively engaged in the conversation.

One week after the Interview:

“ Hello [Recruiter’s Name],
I hope you’re doing well. It’s been a few weeks since my interview for the [Job Position], and I wanted to check in on the status of my application. Please feel free to contact me at your convenience, as I’m excited to hear from you.

Thank you,
[Your Name]

Four days later:

“ Hello [Recruiter's Name],
I hope I'm not bothering you. I interviewed for the [Job Position] a few weeks ago and wanted to follow up again on my application status. I would really appreciate an update when you get the chance, as I'm still very interested in the role.

Thank you,
[Your Name]

Final Follow-up:

“Hello [Recruiter's Name],
It's been a few weeks since my interview for the [Job Position], and I haven't received an update. If I don't hear back soon, I will continue exploring other opportunities. However, I'm still very interested in joining your team, so if I'm not a fit for this role, I'd appreciate being considered for future openings.

Thank you,
[Your Name]

Final offer

[illegible]

More Resources

Seeking jobs

- [Indeed ?? | ??????](#)
- [ZipRecruiter Ireland](#)
- [LinkedIn™ Job Search](#)

Job preparation

- [Interview tips from Google](#)

Interview questions

- [Cybersecurity interview questions](#)
- [General interview questions](#)

AI Resume

- [Reactive Resume](#) - A free and open-source resume builder that simplifies the process of creating, updating, and sharing your resume.
 - Doc: [Reactive Resume | Reactive Resume](#)
- [kickresume](#) - AI Resume Builder
- [Resume-Matcher](#) - is an open source, free tool to improve your resume.

Phrases 3

- A website **is producing service errors** when loading certain pages.
- so it might make sense to figure out **what changed** between **what it was working correctly** and **when it started to fail**. ?????????????????????????????????
- but it's at least a **clue** that whatever's happening is related to some other service in the overall system ?????????????????????????????????
- the application **to finish** with an error **saying** unable to connect to the database server. ???????????????????
- if an internal server error **appears**, it is important to **determine** what and where the error is, correct it, and understand **why it occurred** to **avoid the same type of error** in the future.
- So when you report a bug make sure you include **as much information as possible**
- It could be that we're dealing with **proprietary software** and the source code isn't available at all ?????????????????????????????????
- It is important to have **a reproduction case** for a problem that we're trying to solve. ???????????????????
- If the application **used to work** fine and recently **started crashing**. It's useful to look into what **changed in between**. ?????????????????????????????????
- we can **search for it online** to try to figure out its meaning. ??????????????????
- checking if the crashes still **occur**
- some hardware component is **at fault** ???
- reinstalling the application and running it with the default configuration still **leads to** random crashes ???????
- **As a first step**, you **tried looking at** the logs **to see if** there's any error that **may point to** what's happening, but you only find **an error saying** application terminated and **no useful information**
??
- A user **asks for** your **help with** a problem on their computer. When you ask for details, the user tells you that the internal billing application crashed **while** they were trying to **generate** an invoice for a customer
- As usual, ????
- We'll also **dive into** how to **document** a problem and its solutions, and how to **learn from** our **mistakes** by writing **postmortems**
??
- we'll learn **a bunch of** different **techniques** that we can use to understand the root causes and how to fix them, or at least **lessen the damage** when fixing is not possible
??????
- **There could be** a bug in **some part of** the code, which does an **unsupported** operation
- The program was starting a bunch of threads but never closing them, so it **eventually** ran out of memory and crashed.
- So while **no data** was actually **lost**, the **reoccurring** crashes were **increasing** the average time to **process** the data ?????????????????????????????????

- This program **parsed** logs to **generate** alerts when it found **suspicious** events
????????????????????
- programs that terminate with **uncaught exceptions**, systems that **fail to update** to the latest version ??????????????????
- A program **terminates unexpectedly**, a device reboots for **no apparent reason**, the operating system hangs and we lose all our **unsaved work**
????????????????????
- Once **you're done writing** the Python script,
- hopefully you're starting to **feel** even more **confident in** your skills and abilities
- so I **decided** to spend more time **tweaking** the code to **make** the migration **go faster**
????????????????
- In this case, you'll **definitely** want to split your execution across processors
- we should **double-check** if the copy is really needed
- We **see** that there's **a bunch of** ffmpeg processes running, which are basically using **all the available CPU** ?????? ffmpeg ?????????????????? CPU
- It seems that **something is going on** with the web server and we need to **investigate further** ??????????????????
- there are too many applications **configured to start on boot**
- address ; deal with ; take care of ??;??; ??
 - The general **strategy** for **addressing** slowness is to **identify the bottleneck** in our device, our script, or our system to run slowly
????????????????
 - The operating system also **takes care of** some caching for us
????????
 - **Dealing with Intermittent Issues** : Have you ever tried to solve a problem that happened only **occasionally**? ??????: ??????????????
- We need to really **study** each **problem** to **get to** the root cause of the **slowness**
- we'll have to upgrade the **underlying** hardware ?????????
- If we've closed **everything** that **wasn't** needed and the computer is still slow, we need to **look into** other possible reasons
- But **eventually**, you'll **run out of** memory and everything will **slow down**
????????
- But if you keep opening tabs, **at some point** your computer will become **sluggish**
????????
- ignoring upper vs lower case and **punctuation** ?????????
- We've also talked about problems that **go away on their own** and then **pop up** again
????????
- So we've **looked at** a few ways of **getting to the root cause** of a problem
????????
- If a problem **goes away** by turning it off and on again, there's **almost certainly** a bug in the software ?????????
- It can **take some time** to **get the setup** ?????????
- we have to try our code in **a newly installed machine** ??????
- **Whenever possible**, we should check our **hypothesis** in a test environment, instead of the production environment that our users are working with
????????
- **looking at** the documentation of the applications **involved**
- **Searching online for** the error messages that we get ?????????

- how do we go about finding the actual root cause of the problem? ??????????????
- when trying to create a reproduction case, we want to find the actions that reproduce the issue ?????????????????????
- you'll find an error message that will help you understand what's going on ?????????????????????
- There could be a bunch of reasons why this could happen. It could be problems with the network routing, old config files interfering with a new version of the program, a permissions problem ???
- we want to consider the simplest explanations first and avoid jumping into complex or time-consuming solutions unless we really have to ???
- we first check if it's correctly plugged in and that there's electricity coming from the plug before taking it apart or replacing it with a new device ???
- There are some common questions that we can ask a user that simply report something doesn't work
 - What happen when you open the app?
 - What were you trying to do?
 - What steps did you follow?
 - What was the expected result?
 - What was the actual result?
- you check if you can reproduce the issue on your own computer.
- what about the documentation we should note that this version of the software won't start if that directory doesn't exist ???
- to see if we find anything suspicious. ???????????????????
- remediation; remediate ??;??
 - Depending on the problem, this might include an immediate remediation to get the system back to health, and then a medium or long-term remediation to avoid the problem in the future ???
 - Now, we can go ahead and remediate the issue ???????????????????
- You'll want to know things like when it happened, what the user was doing when it happened, and how regularly it's happening
- the problem could be a hardware issue, a software issue, or even a configuration issue. So the first thing to do is to get more information
- Before we jump in, I'd love to take a quick moment to share why I'm so excited to be here with you taking part in this program ???
- We'll talk about problems that can affect any operating system
- Throughout this course, we'll look at a bunch of different strategies and approaches for tackling problems like those ???
- Sometimes, you might need to figure out why a program isn't doing what it's supposed to. Maybe it's crashing unexpectedly or getting stuck when it should be processing information ???
- various; many different flavors of ????
 - Need a system administrator to handle various issues that come up on my system. (????????????????????????????????)

- In your IT career, you'll come across many different flavors of technical problems
- If the service encounters a problem, it logs an error message to the syslog, indicating what was wrong and the username that triggered the action that caused the problem
- you'll write some automation scripts that will process the system log and generate a bunch of reports based on the information extracted from log files
- Developers of the service are asking for your help with getting some information out of those logs, to better understand how the software is being used and how to improve it
- So it's valuable that we spent some time looking into what resources exist to help us solve our problem
- Remember, we want to avoid reinventing the wheel. No matter how tricky and intricate the challenge appears, chances are that others have solved something similar before
- figuring out how we can tackle the problem by the tools provided by the Python standard library or by external modules
- spelling out what needs to be done and identifying what the given inputs and desired outputs are for that program that we need to write.
- Linux is the primary OS that I use in my day-to-day job as a system administrator.
- In our specific case, returning the original value makes sense when we can't rearrange it
- By running Unit Tests, developers can identify and fix any bugs that appear
- when the results don't match the expectations, the code will raise an error
- Tests can help make good code great.
- make sure that it behaves the way that they expected to.
- You want to make sure that when you run a program, it behaves the way that it should
- it's harder to really be confident that the code will do what it's supposed to
- we'll do a quick rundown of the many concepts around testing
- Log files contain a lot of useful information, particularly when you're trying to debug a tricky problem that's happening on a computer
- To be able to process the output of commands, we'll set a parameter called capture output
- This can be handy for system commands
- Software testing is a process of evaluating computer code to determine whether or not it does what you expect it to do
- if we just want to run a command and only care about whether or not it was successful.
- which means that our script has no control over it

- helping us create a custom vision-language model **tailored to** our specific tasks.
????????????????????
- These are parameters that are **passed to** a program when it started.
????????????????
- Another **common way of** providing information to our programs **is through** command line **arguments** ??????????????????
- The **most commonly** used shell on Linux is called bash. Linux ????? shell ?? bash
- You are allowed to **refer to** your completed lab notes during the quiz
????????????????
- Please note that there is a **graded quiz** that **follows** this lab. You must complete the lab before attempting the quiz. The quiz will **assess** your **comprehension** of the key concepts and procedures covered in the lab
??
- **Wildcard**: A character that can match more than one character
- **Applicable** from November 28 to December 5, 2024, 11:59 PM (UTC +0) ???
2024/11/28...
- **Not applicable to** services that have been doubled before. ????????????
- This module includes a bunch of different functions that can help **manipulate** strings
????????????????
- reserved characters ????
- But **thankfully**, the **principles** are always the same ????????????????
- Implementation ??; ??; ??; ??; ??
- a bunch of; a ton of; plenty of ??; ??; ??
 - There are **plenty of** others you'll be using soon ????????????
 - Data can be provided to a computer in **a bunch of** different ways
????????????????
 - There's **a ton of** things that you can do with Python ???? Python ?????
 - there's **a broad range of** tools that **incorporate** regular expressions
????????????????
- encounter; come across ; experience ??
 - we'll provide resources you can access if you **encounter** any issues you cannot resolve **on your own**. ??????????????????????????????
 - we'll give you the tools to solve real world problems that you might **come across** in your IT role ??????????????? IT ???????????????
 - A user is **experiencing** strange behavior from their compute
- allowing you to use both Linux and Windows operating systems **as if** they were installed on your local machine ????? Linux ? Windows ??????????????????
- Qwiklabs is an online lab tool that creates **simulated** Windows and Linux OS environments Qwiklabs ??????????????? Windows ? Linux ?????
- you will use Qwiklabs through Coursera to complete **hands-on** activities that include writing Python scripts, debugging Python scripts ???? Coursera ?? Qwiklabs
?????????????? Python ????? Python ??
- A lot of programs **are capable of** exporting data as CSV files ??????????????? CSV ??
- Here is the code **all together**. ??????????
- We can use the datetime module to **make it easier** for us humans to read
????????????????
- File paths **are most often** used to save and load information ???????????????
- You see the potential issues? It's **enough to make you growl** ???????????????

- we get some **hands-on practice** with all this ??????????
- the interpreter **raises** an error ????????
- absolute path ; relative path ????;????
- Is it **worth** the time ???????
- Without virtual environments, managing these dependencies could become a **nightmare** ??????????????????????
- This term **stands for** Integrated Development Environment, and usually **refers to** a code editor ??????????????????
- when we run the Python 3 command, we get an **interactive interpreter**. ????? Python 3 ??????????????????
- Interpreted vs. Compiled Languages ??????????
- In my job as a sysadmin, I **mainly work** with the Linux operating system ?????????????????? Linux ?????
- You **may have also heard of** Unix ?????? Unix
- We **refer to** these different **flavors** of Linux as distributions. ?????????? Linux ?????
- They **are tempted** to spend a lot of time trying to solve the problem **on their own** ??????????????????
- To check that our code is doing **everything it's supposed to do** ??????????????????
- In this **scenario**, it **makes sense** to use **a set** to store the current users ??????????????????
- I was **happy with** it, the user was happy with it. ??????????????
- We're gonna **dive into object-oriented** programming ??????????????????
- It's your call ; It's up to you ?????
- we add, remove, or change the elements **inside** that box ??????????????????
- it **doesn't matter** how long each string is on its own. **What matters** is how many elements the list has ?????????????????? list ??????
- indicate ; represent ??
 - we use **square brackets** to **indicate** where the list starts and ends
?????(?)?????????????????
 - a list of integers **representing** the size of network packets
??(??)????????????(??)
 - The variable device_id **represents** a device ID containing **alphanumeric** characters?????????
- You can **think of** lists **as** long boxes ??????????????
- **make** the whole string **more readable** ??????????
- **Heads up**, this can **get complex** fast ??????????????
- They focus on applying AI in **practical** ways ?????????????? AI
- there are a bunch of **exercises** ahead to help you with that ??????????????????
- We can use strings to **represent** a lot of different things. ??????????????????
- It never **let me down** ????????

LinkedIn

Connect with someone

“ Hi, Tim. I recently completed the Google Cybersecurity Certificate program, and I'd like to connect with other security professionals. It seems like you have a lot of experience in the security industry that I can learn from. Let's keep in touch!

“ Hi <name>, I discovered your profile because of the interesting work you do as a <role> at <company>. I'd appreciate an opportunity to ask you a few questions to learn more about what you do and what it is like to work at <company>. Thank you in advance for connecting with me!

Share my achievement

Post to share after finishing certificate program

“ Excited to Share My Achievement!

I am delighted to announce that I have successfully completed the Using Python to Interact with the Operating System course through @Coursera, offered by @Google !

This comprehensive program has equipped me with the skills to :

- ? Setup, configure, and use your own developer environment in Python
- ? Understand and use regular expressions (regex), a powerful tool for processing text files
- ? Manipulate files and processes running on the Operating System using Python
- ? Know when to choose Bash or Python, and create small scripts using Bash

This certification has significantly enhanced my understanding of Automating System Administration Tasks with Python technologies and prepared me to contribute to relevant projects.

Big thanks to @Google and @Coursera for offering this course!

Check out my certificate here!

“ I'm happy to share that I've obtained a new certification: Generative AI Advance Fine-Tuning for LLMs from @IBM!

Fine-tuning LLMs is like giving AI superpowers but for specific tasks - making them really good at exactly what your business needs.

“ I've successfully completed the "Data Visualization with R" course offered by @IBM issued by Cognitive Class

This comprehensive program equipped me with cutting-edge skills to effectively communicate insights and trends in data. I mastered:

1. Data preparation and visualization using popular libraries (Matplotlib, Seaborn, Plotly)
2. Creating interactive and dynamic visualizations
3. Storytelling with data to drive business decisions
4. Best practices for data visualization design

Key Takeaways:

- Enhanced data analysis and interpretation capabilities
- Expertise in data visualization tools and techniques
- Ability to present complex data insights intuitively

Career Benefits:

- Boosted skills in data-driven decision-making
- Enhanced collaboration capabilities with data stakeholders
- Expanded career opportunities in data science and analytics

Grateful for @IBM 's Expertise!

I appreciate @IBM 's commitment to fostering data literacy and innovative learning experiences.

Phrases 4

- **networked** machines ?????
- Each has **its own strengths** and **weaknesses** ?????
- we've chosen to **focus on** Puppet because it's the **current industry standard** for configuration management ????? Puppet ??????????????????
- **manually scaling** the application to **keep up with** demand is becoming **cumbersome** ??????????????????
- You want to create a product that **is free of** errors and bugs ?????bug???
- What is latency **in terms of** Cloud storage ??????????????
- If you're **looking to** share data across instances ??????????????????
- This approach to scaling isn't **too different from** what you'd need to do if you **have** your servers **running on-premise** ??????????????????
- **Say** your web service is using Apache to **serve** web pages ?????????? Apache ?????
- To **scale** a deployment **horizontally (vertically)** ????(??)????
- Our **capacity needs** can change **over time** ??????????????
- you could choose to **host** the database in your own hardware ??????????????????
- figure out what's going on when a program **doesn't behave as expected**. ??????????????
- **Besides serving as** a repository for your code and **tracking changes** to your code over time, ??????????????????
- Install the Git CLI **according to** your operating system ?????????? Git CLI
- **Go through** /var/log/syslog and check if there are any critical errors that need attention ?? /var/log/syslog ??????????????
- All comments resolved, please **take another look** ??????????????
- if you've written **a piece of** code ??????????
- **refactor** our code ?????
- assuring the data's **integrity** and **authenticity** ??????????????
- you can create a **separate** branch to **do your work without worrying** about **messing up** this current working state. ??????????????????
- try **something new** in your project ??????????
- Version control is a feature of a software management system that **records changes** to files **over time** so that you can **recall specific versions** later ??????????????????
- Git can **work as a standalone program** as a server and as a client Git ??????????????
- included **a duplicated entry** causing the server to **misbehave**. ??????????????????
- As we **called that** earlier ??????????
- It also lets us easily **revert** a change ??????????????
- **Practical Application** of diff and patch diff ? patch?????
- Take your time and review any content that's **not completely clear**. ??????????????????

- some of these topics and videos are **a little complex**, so they might not 100% sink in the **first time around** ??????????????????????????????
- **Establish** a relationship with a professional who might be able to help you in your **current job search** and be a part of your **professional network** moving forward. ???
- Enter the values for the year, month, and day **respectively** as the prompt appears ??????????????????
- **establishing** test environments, monitoring ??????, ??
- Getting started with Docker can feel **overwhelming** ????; ?????
- One key strategy is **to make good use of** monitoring. ??????????????
- whenever we're faced with an issue, it's usually best to find a quick **workaround**. So that those **affected** can **get back to work** as soon as possible ??
- **Planning ahead** will **prepare you for** when you need additional resources, instead of having to scramble for them **at the last minute** ???
- help you avoid **getting stuck** on a lot of these **situations** ??????????????????
- **Emergencies** and **unexpected events** will **arise**—they always do ??????????????????????????????
- give them **timely** updates ??????????
- instead of **getting interrupted** in the **middle** of a task ??????????????
- It's important to communicate **upfront** to the user ??????????????
- **give them an idea of** when they can **expect their issue to be fixed** so they can plan what to do next ??????(?)????????????????????????????????????
- make sure you tell the user that you're dealing with **a crisis** and that you'll help with their **request** once the crisis is resolved ???
- fixing the database is critical and affects the **whole company**, so it **should take priority** ???????
- a user calls you to **request access** to a shared resource, but you're **in the middle of dealing with** an issue that's **causing** the company's database **to be offline** ?????? Call ??????????, ?????????????????????????????????????
- you have to replace a keyboard but you **have no spares available** ???????
- it's important to understand these **implicit expectations** and let users know if **fixing** the problem will **take longer than** they expect ???
- When you're **dealing with** an issue that's **affecting** one or more users, ??????????????????????????????
- select which task you're going to deal with depending on **urgency** ??????????????????
- **make a list** of all of the tasks that need to **get done** ??????????????????
- you might need to write **your own** script that **gets rid of** them ??(??)??
- it might be **easily fixed** by **uninstalling applications** that aren't used, or **cleaning up** old data that isn't needed **anymore**.
- It's common for the **overall performance** of the system **to decrease** as the available disk space **gets smaller** ???
- We saw how **reducing scope** and **isolating problems** can lead us to **the root cause** of programs that are **running slowly** or **crushing unexpectedly** ??????????
- how to **identify** what process or application is **taking up** all your disk space ??

- You **hadn't written** the software and **didn't have access to** the source code.
????????????????
- you were an **IT professional** who's **in charge of** the **deployment** and **maintenance** of software in your company ???? IT ??????????????????
- raise an error; throw(threw) an error ????
 - another thing that could cause the open function to **raise** an error
 - the interpreter **threw** one of these errors
 - when you can't modify the program that's **throwing** errors
- Logs on both servers **show** an **increase in** CPU and RAM usage. What may be **the most effective way** to resolve this issue with **a complex set of servers**? ???????????? CPU ? RAM ?????????????????????????????????
- The website is **hosted by** two load balancing servers in the cloud **and are connected** to an external SQL database. ????????????????????????????????? SQL ???
- During **peak hours**, users have reported issues connecting to a website.
??(?)????????????????????
- we can **prepare** if **something similar happens** in the future ??????????????????
- Third-party service providers may **go down**, an update may **not perform as expected**, or a server may **experience a hacking attack**
????????????????????????????????

Glossary terms

- **Technical debt:** The pending work that accumulates when a quick-and-easy solution is applied instead of a sustainable long-term one ?????
??
- **Exhausted:** When resources are used completely and programs are getting blocked by not having more access to those resources ??? ??????????????????????????
- **Reproduction case:** A clear description of how and when the problem appears, a way to verify if the problem is present or not ????? ??????????????????????????