

## Asterisk Cheat Sheet by liveincan via cheatography.com/51698/cs/36389/

| Common configuration files |                                 |  |
|----------------------------|---------------------------------|--|
| sip.conf                   | Configure trunks                |  |
| users.conf                 | Configure users                 |  |
| extensions.conf            | Dialplan configuration          |  |
| iax.conf                   |                                 |  |
| logger.conf                | Files and log levels            |  |
| confbridge.conf            | Conference bridge configuration |  |
| modules.conf               |                                 |  |
| musiconhold.conf           | Music on hold configuration     |  |
| voicemail.conf             | Voicemail configuration         |  |

| Asterisk Console Co | mmands                                      |
|---------------------|---|
| asterisk -r[vvvv]   | Enter Asterisk console [verbose level]      |
| sip show channels   | Shows active channels                       |
| sip show registry   | Display trunk status                        |
| sip show peers      | Show peer status                            |
| core set verbose X  | Changes the console verbosity level         |
| core show transl-   | Displays transcoding latency between codecs |
| ation               |   |
| reload              | Reread the configuration files, without     |
|                     | restarting Asterisk                         |
| core restart now    | Force Asterisk to restart immediately       |
| core restart        | Restarts Asterisk when calls are complete.  |
| gracefully          | New calls are denied                        |
| core restart when   | Restarts Asterisk when calls are complete.  |
| convenient          | New calls are accepted                      |

| Pattern Matching |                                    |  |  |
|------------------|------------------------------------|--|--|
| Χ                | Digit from 0 to 9                  |  |  |
| Z                | Digit from 1 to 9                  |  |  |
| N                | Digit from 2 to 9                  |  |  |
|                  | Wildcard - one or more characters  |  |  |
| !                | Wildcard - zero or more characters |  |  |
| []               | Numeric Range                      |  |  |
| Examples         |                                    |  |  |
| _1XXX            | match from 1000 to 1999            |  |  |
| _12[0-5]X        | match from 1200 to 1259            |  |  |
| _12[015]         | match 120, 121 and 125             |  |  |

| Complex Match - All Numbers from 4683 to 5132 |
|---|
| _468[3-9] ; 4683-4689                         |
| _ 469X ; 4690-4699                            |
| _ 4[7-9]XX ; 4700-4999                        |
| _ 50XX ; 5000-5099                            |
| _ 51[0-2]X ; 5100-5129                        |
| _ 513[0-2] ; 5130-5132                        |

| Dialplan Apps                          |  |  |
|--|--|--|
| Application                            | Description  | Example  |
| Answer()                               | Answer immediately                                   |  |
| Playback(-<br>music)                   | Play music   |  |
| Dial(type/id-<br>entifier,<br>timeout) | Calls the type identifier number for timeout seconds | Dial(SIP/TrunkN-<br>ame/\${EXTEN:3}, 20)             |
| VoiceMail(us-<br>er@context)           | Calls the user's voicemail user on context context   | VoiceMail(\${EXTEN}- @mycontext)                     |
| VoiceMailMai-<br>n(user@co-<br>ntext)  | Allows you to check your voicemail                   | VoiceMailMain(\$CAL-<br>LERID(num)@myco-<br>ntext)   |
| Goto(context, extension, priority)     | Allows you to change context and/or number           | Goto(otherContext, \${EXTEN:2})                      |
| Hangup()                               | Hang up  |  |
| NoOp(m-<br>essage)                     | Does nothing, useful for debugging                   | NoOp(Call from<br>\${CALLERID(num)} to<br>\${EXTEN}) |



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string.

| Dialplan variables |                                 |
|--------------------|---------------------------------|
| \${EXTEN}          | The number called               |
| \${CONTEXT}        | The name of the current context |
| \${CALLERID(name)} | The name of the caller          |
| \${CALLERID(num)}  | The caller's number             |

| Dialplan For      | mat   |  |
|-------------------|---|--|
| Contexts          | Keeps different<br>sections of the<br>dialplan<br>independent of<br>each other  | [users]  |
| Extensions        | The series of<br>steps (each<br>containing an<br>application)<br>defined for that<br>extension                        | exten => 100,1,Dial(SIP/alice)   |
| Priorities        | An extension can have multiple steps (priorities), which are executed sequentially.                                   | exten => 100,1,Playback(tt-weasels) exten => 100,2,Voicemail(10) exten => 100,3,Hangup() |
| n priority        | Automatically increases a priority's value by 1,  | exten => 100,1,Playback(tt-weasels) exten => 100,n,Voicemail(10) exten => 100,n,Hangup() |
| same => operator  | Enables you to<br>avoid writing<br>the extension<br>on each line,<br>as long the<br>extension<br>remains the<br>same. | exten => 100,1,Playback(tt-weasels) same => n,Voicemail(10) same => n,Hangup()           |
| Applic-<br>ations | the action that will be performed on the current channel.   | exten => 100,1,Dial(SIP/alice)   |

| Manipulating Variables   |
|--|
| Variable format: \${variable_name[:offset[:length]]} where                       |
| offset: how many digits to skip (optional)                                       |
| f length: number of digits to return (optional)                                  |
| Examples: Assuming we've dialed 918005551234                                     |
| Remove the first character of extension, save in "number" variable.              |
| exten => _9X.,1,Set(number=\${EXTEN:1})  |
| 2. Use a negative offset number to remove everything before the last four digits |
| exten => _9X.,1,Set(number=\${EXTEN:-4})   |
| 3. Limit the number of characters from our offset position and only save 555     |
| exten => _9X.,1,Set(number=\${EXTEN:5:3})  |
| 4. The length value can also be used with a negative offset to save 555          |
| exten => _9X.,1,Set(number=\${EXTEN:-7:3})                                       |
| 5. Negative length value (-1) will remove # sign from the end of the             |

exten => \_XXXX#,1,Set(pin=\${EXTEN:0:-1})



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