

LINternUX - Making Date Calculation

Revision 1.1 - 02 March 2021

<https://linternux.com/scripting/making-date-calculation/>

Current date and time

Command	Description	Result
date	Get/Show current date & time	Sun 28 Feb 2021 17:05:41 EST
date "+%C%y.%m.%d %H:%M:%S"	Current Date/Time YYYY.MM.DD HH:MM:SS	2021.02.28 21:09:17
date "+%C%y.%m.%d %T"	Current Date/Time YYYY.MM.DD HH:MM:SS	2021.02.28 21:09:17
date '+%C%y.%m.%d'	Current Date/Time Format YYYY.MM.DD	2021.02.28
date "+%j"	Day of year (001..366)	059
date +%q	Quarter of year (1..4)	1
date +%u	Day of week (1..7); 1 is Monday	7
date +%w	Day of week (0..6); 0 is Sunday	0
date +%U	week number of year (00..53)	09
date +%d	Day of month (e.g., 01)	28
date +%m	Month number (01..12)	02
date +%y	Last two digits of year (00..99)	21
date +%Y	Current Year with century	2021
date +%H	Current Hour (00..23)	21
date +%M	Current Minute (00..59)	09
date +%S	Current second (00..60)	41

Epoch time

Command	Description	Result
date	Get current date & time	Tue 02 Mar 2021 10:42:09 AM EST
date +%s	Get current epoch time	1614699732
date -d @1614699732 "+%Y/%m/%d %T"	Convert Epoch Time to a Date format	2021/03/02 10:42:12
date --date='03/02/2021 10:42:12' +%s	Convert a Date to an Epoch Time	1614699732

Date in the future

Command	Description	Result
date --date="35 days"	Date/Time in 35 days	Sun Apr 4 18:12:51 EDT 2021
date --date="1 month"	Date/Time in one month	Sun Mar 28 18:58:26 EDT 2021
date --date="this friday"	Date/Time Next Friday	Fri Mar 5 00:00:00 EST 2021
date --date="next day"	Date/Time Tomorrow	Mon Mar 1 18:01:42 EST 2021

Command	Description	Result
date --date="tomorrow"	Date/Time Tomorrow	Mon Mar 1 18:01:42 EST 2021
date --date='fortnight'	Date/Time 15 days ahead	Sun Mar 14 21:30:30 EDT 2021
date --date='5 fortnight'	Date/Time 5 times 15 days ahead	Sun May 9 21:38:33 EDT 2021
date --date='2 hour'	Date/Time 2 hours from now	Sun Feb 28 22:43:30 EST 2021
date --date='20 minute'	Date/Time 20 minutes from now	Sun Feb 28 21:04:49 EST 2021
date -dmonday +%Y/%m/%d	Date of next Monday	2021/03/01
date -d'monday-fortnight ago' +%Y%m%d	Last Monday - 2 weeks from now	20210215
date --date "next month - \$(date +%d) day"	Last Day of Month	Wed 31 Mar 2021 10:30:21 AM EDT
date -dnext-monday +%Y/%m/%d"	Date/Time of next Monday	2021/03/01
date -d'monday+fortnight' +%Y/%m/%d"	Next Monday + 2 weeks from now	2021/02/15
date -d'52+monday' +%Y%m%d"	Date of 52th Monday from now	20220221
date -d'monday+14 days' +%Y%m%d"	Date of next Monday + 14 Days	20210315

Date in the past

Command	Description	Result
date --date='20 minutes ago'	Date/Time 20 minutes ago	Sun Feb 28 20:25:25 EST 2021
date --date='2 hours ago'	Date/Time 2 hours ago	Sun Feb 28 18:44:20 EST 2021
date --date='10 days ago'	Date/Time 10 days ago	Thu Feb 18 20:51:01 EST 2021
date --date='10 weeks ago'	Date/Time 10 weeks ago	Sun Dec 20 20:51:28 EST 2020
date --date='10 months ago'	Date/Time 10 months	Tue Apr 28 21:52:27 EDT 2020
date --date='10 year ago'	Date/Time 10 years ago	Mon Feb 28 20:52:54 EST 2011
date --date="yesterday" +%Y/%m/%d %T"	Yesterday Date	2021/02/27 20:49:45
date --date='yesterday'	Yesterday Date/Time	Sat Feb 27 20:49:49 EST 2021
date --date='fortnight ago'	Date/Time 15 days ago	Sun Feb 14 20:40:06 EST 2021
date -dlast-monday	Date/Time of Last Monday	Mon Feb 22 00:00:00 EST 2021
date -dlast-monday +%Y/%m/%d"	Date Last Monday	2021/02/22
date -d'monday-14 days' +%Y/%m/%d %T"	Two Mondays ago	20210215