Red Hat Enterprise Linux Release 9.2 Manual Pages on 'systemd-growfs.8' command

$ man systemd-growfs.8

SYSTEMD-MAKEFS@.SERVICE(8) systemd-makefs@.service SYSTEMD-MAKEFS@.SERVICE(8)

NAME

systemd-makefs@.service, systemd-mkswap@.service, systemd-

growfs@.service, systemd-makefs, systemd-growfs - Creating and growing

file systems on demand

SYNOPSIS

systemd-makefs@device.service

systemd-mkswap@device.service

systemd-growfs@mountpoint.service

/usr/lib/systemd/systemd-makefs

/usr/lib/systemd/systemd-growfs

DESCRIPTION

systemd-makefs@.service, systemd-mkswap@.service, and

systemd-growfs@.service are used to implement the x-systemd.makefs and

x-systemd.growfs options in fstab(5), see systemd.mount(5). They are

instantiated for each device for which the file system or swap

structure needs to be initialized, and for each mount point where the

file system needs to be grown.

These services are started at boot, either right before or right after

the mount point or swap device are used.

systemd-makefs knows very little about specific file systems and swap

devices, and after checking that the block device does not already

contain a file system or other content, it will execute binaries

specific to each filesystem type (/sbin/mkfs.type or /sbin/mkswap). For certain file system types (currently ext2/ext3/ext4(5), btrfs(5), xfs(5), f2fs, vfat) and for swap devices, it will configure reasonable defaults and set the file system label and UUID based on the device name.

systemd-growfs knows very little about specific file systems and swap devices, and will instruct the kernel to grow the mounted filesystem to full size of the underlying block device. Nevertheless, it needs to know the ioctl(2) number specific to each file system, so only certain types are supported. Currently: ext4(5), btrfs(5), xfs(5), and dm-crypt partitions (see cryptsetup(8)).

If the creation of a file system or swap device fails, the mount point or swap is failed too. If the growing of a file system fails, a warning is emitted.

SEE ALSO

systemd(1), systemd.mount(8), systemd-fstab-generator(8), systemd-repart(8), mkfs.btrfs(8), mkfs.cramfs(8), mkfs.ext4(8), mkfs.fat(8), mkfs.hfsplus(8), mkfs.minix(8), mkfs.ntfs(8), mkfs.xfs(8)