

To extend logical volume

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Steps to Add Space and Extend Logical Volume


1. Add a New Physical Disk:

- Attach a new disk to your server. Assuming the new disk is `/dev/nvme3n1`.

2. Create a Physical Volume:

- Initialize the new disk as a physical volume (PV).

```
sh
```


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```
sudo pvcreate /dev/nvme3n1
```

3. Extend the Volume Group:

- Add the new physical volume to the existing volume group `sapvg`.

```
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```
sudo vgextend sapvg /dev/nvme3n1
```

4. Verify the Volume Group:

- Check the volume group to confirm that the new physical volume has been added and there is now free space available.

```
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```


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```
sudo vgdisplay sapvg
```

5. Extend the Logical Volume:

- Extend the logical volume `sapvg-BOP_1v` by 25GB.

```
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```

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```
sudo lvextend -L +25G /dev/sapvg/BOP_1v
```

6. Resize the Filesystem:

- Resize the filesystem on the logical volume to use the newly added space.

- If you're using an ext4 filesystem:

```
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```
sudo resize2fs /dev/sapvg/BOP_1v
```

- If you're using an xfs filesystem:

```
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```
sudo xfs_growfs /usr/sap/BOP
```

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```

7. Verify the Changes:

- Finally, verify that the logical volume and filesystem have been resized correctly.

```
sh
```

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```
df -h /usr/sap/BOP
```