

# Table of Contents

|   |          |
|---|----------|
| <b>Remote Connection using VNC.....</b>                     | <b>1</b> |
| Server Setup.....   | 1        |
| Linux Server (SLC).....                                     | 1        |
| Setting up the SSH Tunnel and connecting to the server..... | 1        |

# Remote Connection using VNC

## Server Setup

### Linux Server (SLC)

First the ports used by VNC (5901 and following) have to be opened using iptables (see [documentation](#)):

```
sudo iptables -A INPUT -m state --state NEW -m tcp -p tcp --dport 5901:5905 -j ACCEPT
```

Restart iptables to take over the modifications

```
service iptables restart
```

Now the VNC server can be started

```
vncserver -geometry 1920x1080 :1
```

The geometry option allows to set the screen sizes of the x-server. The last number determines the port used for this vncserver +5900, i.e. :1 refers to port 5901

## Setting up the SSH Tunnel and connecting to the server

In order to secure the connection it is recommended to use an SSH tunnel, since otherwise the connection is not encrypted (see [link](#))

For example

```
ssh -L 5901:machine.cern.ch:5901 username@lxplus.cern.ch
```

opens a tunnel to machine.cern.ch via lxplus (mandatory when connecting from outside CERN) and maps port 5901 of the server to the local port 5901. The connection to the VNC server can now be done by connecting your VNC client to localhost:5901.

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