```
#/bin/bash
# set the interface name
if=wlan0
# calculate the IPv6 address
ipv4=`/sbin/ifconfig $if | grep "inet addr" | sed -e 's/^. *inet addr://' | sed -e 's/ .*$//'`
ipv4s=`echo $ipv4 | tr "." " "`
ipv6=`printf "2002:%02x%02x:%02x%02x::1" $ipv4s `
case "$1" in
start)
/sbin/ip tunnel add tun6to4 mode sit ttl 128 remote any local $ipv4
/sbin/ip link set dev tun6to4 up
/sbin/ip -6 addr add $ipv6/16 dev tun6to4
/sbin/ip -6 route add 2000::/3 via ::192.88.99.1 dev tun6to4 metric 1
# configure firewall
/sbin/ip6tables -A INPUT -m state --state ESTABLISHED,RELATED -j ACCEPT
/sbin/ip6tables -A INPUT -j DROP
;;
stop)
/sbin/ip -6 route flush dev tun6to4
/sbin/ip link set dev tun6to4 down
/sbin/ip tunnel del tun6to4
# clear firewall
/sbin/ip6tables -F INPUT
;;
*)
echo "usage: ipv6 {start|stop}"
exit 1
esac
exit 0
```

This will create a new interface ‘tun6to4’ which will be used for IPv6.