

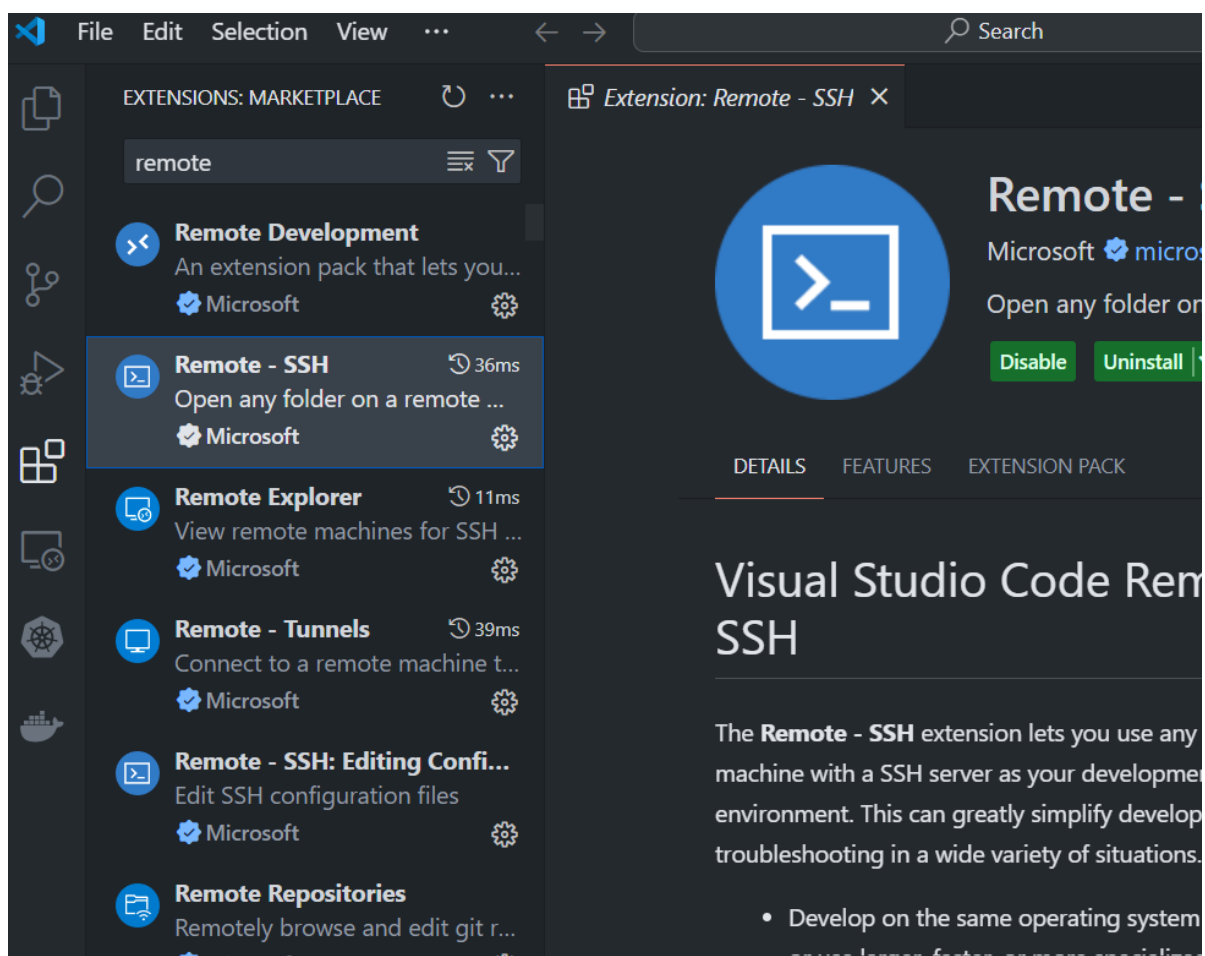
설명 :

VScode 에서 Kubernetes 환경에 접근하는 과정입니다. Remot ssh 플러그인 설치 후 진행합니다.

요약 :

- VScode remote ssh 플러그인 설치
- Kubernetes pod 안에 ssh 설치
- NodePort 타입 Service 생성
- Portfowarding (필요시)
- Pod 접속

1) Remote - ssh 플러그인 설치



VScode에서 확장 플러그인을 설치해줍니다.

2) Kubernetes pod 안에 ssh 를 설치해 줍니다.

```
$> apt-get update && apt-get install -y openssh-server vim
```

```
$> vi /etc/ssh/sshd_config
```

```
# possible, but leave them commented. Uncommented options
# default value.

Include /etc/ssh/sshd_config.d/*.conf

#Port 22
#AddressFamily any
ListenAddress 0.0.0.0
#ListenAddress ::

#HostKey /etc/ssh/ssh_host_rsa_key
#HostKey /etc/ssh/ssh_host_ecdsa_key

# Authentication:

#LoginGraceTime 2m
PermitRootLogin yes
#StrictModes yes
#
#AuthorizedKeysCommand none
#AuthorizedKeysCommandUser nobody

# For this to work you will also need host keys in /etc/ssh
#HostbasedAuthentication no
# Change to yes if you don't trust ~/.ssh/known_hosts for
# HostbasedAuthentication
#IgnoreUserKnownHosts no
# Don't read the user's ~/.rhosts and ~/.shosts files
#IgnoreRhosts yes

# To disable tunneled clear text passwords, change to no here
PasswordAuthentication yes
#PermitEmptyPasswords no
```

1. Sshd_config 파일을 열어 해당값을 수정합니다.

```
$> service ssh restart
```

3) node port type svc 생성

```
apiVersion: v1
kind: Service
metadata:
  annotations:
    kubectl.kubernetes.io/last-applied-configuration: |
      {"apiVersion":"v1","kind":"Service","metadata":{"annotations":{},"
tPort":80}], "selector":{"app":"nginx"},"type":"NodePort"}}
  creationTimestamp: "2024-08-26T05:59:12Z"
  name: nginx-test-service
  namespace: default
  resourceVersion: "53963975"
  uid: d2237d5c-1560-4957-904a-cf7e1612a035
spec:
  clusterIP: 10.233.5.236
  clusterIPs:
  - 10.233.5.236
  externalTrafficPolicy: Cluster
  internalTrafficPolicy: Cluster
  ipFamilies:
  - IPv4
  ipFamilyPolicy: SingleStack
  ports:
  - name: http
    nodePort: 30080
    port: 80
    protocol: TCP
    targetPort: 80
  - name: ssh
    nodePort: 30081
    port: 22
    protocol: TCP
    targetPort: 22
    selector:
      app: nginx
    sessionAffinity: None
    type: NodePort
status:
  loadBalancer: {}
```

3-1) 파드의 ssh 포트 포워딩 (필요시)

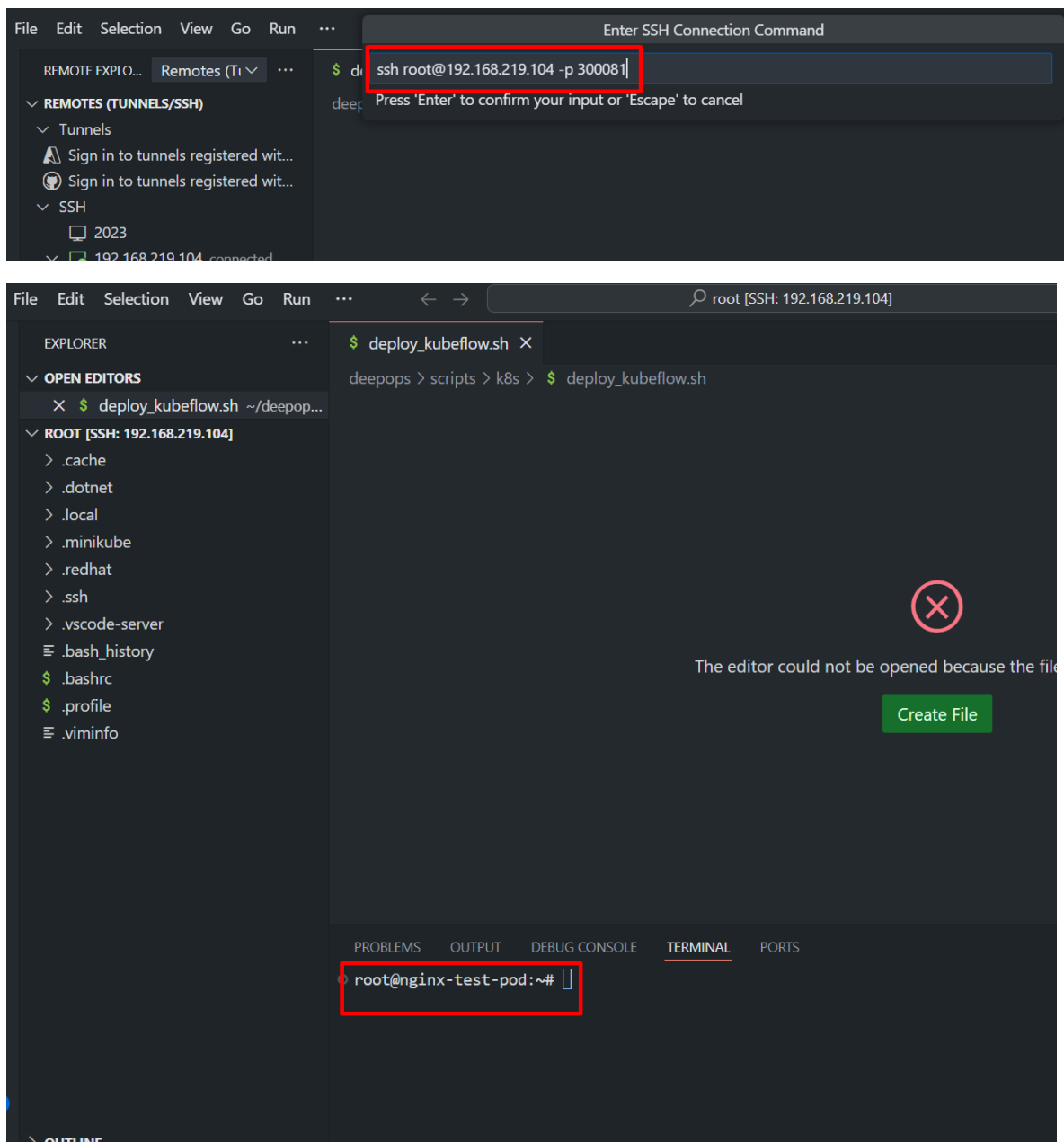
1. 파드에서 실행 중인 특정 애플리케이션에 접근이 필요하므로 포트포워딩을 설정합니다.

```
$> kubectl port-forward --address 0.0.0.0 pod/nginx-test-pod 30081:22 -n default
```

```
^Croot@gpu01:~# kubectl port-forward --address 0.0.0.0 pod/nginx-test-pod 30081:22 -n
Forwarding from 0.0.0.0:30081 -> 22
Handling connection for 30081
Handling connection for 30081
Handling connection for 30081
```

4) VScode 에서 파드 접속 확인

VScode에서 파드 접속합니다.



파드에 접속을 확인 합니다.