

Directions for Connecting to UIC CS Systems Resources

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Remote Development Using UIC Systems Servers with VS Code

UIC provides the following Systems servers, which can be accessed using your UIC NetID and password.

```
systems1.cs.uic.edu  
systems2.cs.uic.edu  
systems3.cs.uic.edu  
systems4.cs.uic.edu
```

Connecting to Systems Servers Using VS Code

1. Install the **Remote Development** extension in VS Code.
2. Open the **Remote Explorer** and add a new Remote SSH connection using one of the servers above and your UIC NetID:

```
ssh NetID@systems1.cs.uic.edu  
# Example: ssh ashov@systems1.cs.uic.edu
```

3. Enter your UIC password when prompted.

Adding an SSH Key to GitHub from a Systems Server

To clone a GitHub repository from a Systems server, generate an SSH key on the server and add the public key to your GitHub account.

1. After establishing a remote connection, open a terminal in VS Code. You should see a prompt similar to `NetID@cs-sys1:.`

2. Generate an SSH key:

```
ssh-keygen -t ed25519 -C "EMAIL_ADDRESS"
```

3. When prompted, accept the default file location and choose a passphrase if desired.

4. Display the public key:

```
cat ~/.ssh/id_ed25519.pub
```

5. Copy the output and add it to your GitHub account under **Settings > SSH and GPG keys > New SSH key**.

Cloning a GitHub Repository

Once your SSH key has been added to GitHub, clone the repository from the VS Code terminal:

```
git clone git@github.com:UIC-CS455/REPO.git
```

Opening the Remote Project

1. While connected to a Systems server, open the VS Code Explorer.
2. Navigate to and select the cloned repository directory.
3. The project will open in VS Code using the remote connection.
4. You may commit and push changes directly from the VS Code terminal on the Systems server.

Additional Resources

1. **Adding SSH Keys to GitHub:** GitHub documentation on [generating and adding SSH keys](#).
2. **UIC Systems Machines:** UIC instructional computing facilities overview at cs.uic.edu.