**文本

中度可信度描述已自动生成文本

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描述已自动生成Week 7 Networking – BL**

**IPv4: 32位(v6 128)**

**表格

描述已自动生成route an IP packet: 双方IP, 你的掩码(and local router)**

**256 ad = 254 hosts+ network ad(没用) + broadcast ad(广播用)**

**TCP/UDP 65536port (ssh22 http80 https443; dns53 dhcp67/68)**

**NAT: network address translation**

**NAT router: source/destination private IP ←→ public IP**

图示

描述已自动生成**Week 9 DevOps**

图示

描述已自动生成

**git & GitHub:**

**Source is kept in a “repository” or “repo”**

**“cloning”: Copying repo from GitHub to local disk**

**“pull” from remote repo: Updating local files from repo**

**“push”: Updating remote repo from working directory**

**“master” branch: Main branch of repo**

**“merge": When a branch is merged into master**

**Week 8 Web Architecture**

**Back-end framework: Django, Ruby, Node.js**

**Front-end: React, Vue, Meteor, HTML5 CSS3 JQurey/Ajax**

**Monolithic, 2 Tier (UI&BL, DB), 3 Tier (UI BL Data), Distributed**

**Django: model view controller architecture pattern**

**HTTP request map py file**

**Nginx: handle HTTP requests to Django app or static files**

**Database: S3, DynamoDB, RDS (MySQL PostgreSQL MariaDB …)**