

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Computer Science and Engineering - NOC:Google Cloud Computing Foundation Course

Subject Co-ordinator - Prof. Soumya Kanti Ghosh

Co-ordinating Institute - IIT - Kharagpur

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

Lecture 1 - Introduction to Cloud
Lecture 2 - Cloud Computing
Lecture 3 - Cloud vs Traditional Architecture
Lecture 4 - IaaS, PaaS and SaaS
Lecture 5 - Google Cloud Architecture
Lecture 6 - Cloud Computing Recap Quiz
Lecture 7 - Summary - Cloud Computing
Lecture 8 - Introduction - Start with a Solid Platform
Lecture 9 - The GCP Console
Lecture 10 - Understanding Projects
Lecture 11 - Billing in GCP
Lecture 12 - Install and Configure Cloud SDK
Lecture 13 - Use Cloud Shell
Lecture 14 - GCP APIs
Lecture 15 - Cloud Console Mobile App
Lecture 16 - Recap Quiz - Start with a Solid Foundation
Lecture 17 - Introduction
Lecture 18 - Compute Options in the Cloud
Lecture 19 - Exploring IaaS with Compute Engine
Lecture 20 - Configuring Elastic Apps with Autoscaling
Lecture 21 - Exploring PaaS with App Engine
Lecture 22 - Event Driven Programs with Cloud Functions
Lecture 23 - Containerizing and Orchestrating Apps with GKE
Lecture 24 - Summary
Lecture 25 - Introduction
Lecture 26 - Storage Options in the Cloud
Lecture 27 - Structured and Unstructured Storage in the Cloud
Lecture 28 - Unstructured Storage using Cloud Storage
Lecture 29 - SQL Managed Services

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- Lecture 30 - Exploring Cloud SQL
- Lecture 31 - Cloud Spanner as a Managed Service
- Lecture 32 - NoSQL Managed Services Options
- Lecture 33 - Cloud Datastore a NoSQL Document Store
- Lecture 34 - Cloud Bigtable as a NoSQL Option
- Lecture 35 - Summary
- Lecture 36 - Introduction to API
- Lecture 37 - The Purpose of APIs
- Lecture 38 - Cloud Endpoints
- Lecture 39 - Using Apigee
- Lecture 40 - Managed Message Services
- Lecture 41 - Cloud Pub/Sub
- Lecture 42 - Recap Quiz - There's an API for that!
- Lecture 43 - Introduction - Cloud Security
- Lecture 44 - Introduction to security in the cloud
- Lecture 45 - Understanding the shared security model
- Lecture 46 - Explore encryption options
- Lecture 47 - Understand authentication and authorization
- Lecture 48 - Identify best practices for authorization
- Lecture 49 - Recap Quiz - Security
- Lecture 50 - Summary - Security
- Lecture 51 - Introduction
- Lecture 52 - Intro to Networking in the Cloud
- Lecture 53 - Defining a Virtual Private Cloud
- Lecture 54 - Public and Private IP Address Basics
- Lecture 55 - Googles Network Architecture
- Lecture 56 - Routes and Firewall Rules in the Cloud
- Lecture 57 - Multiple VPC Networks
- Lecture 58 - Building Hybrid Clouds
- Lecture 59 - Different Options for Load Balancing
- Lecture 60 - Recap Quiz
- Lecture 61 - Summary
- Lecture 62 - Introduction - Let Google keep an eye on things
- Lecture 63 - Introduction to IaC
- Lecture 64 - Cloud Deployment Manager
- Lecture 65 - Monitoring and Managing Your Services, Apps, and Infra
- Lecture 66 - Stackdriver
- Lecture 67 - Recap Quiz - Let Google keep an eye on things
- Lecture 68 - Summary - Let Google keep an eye on things

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- Lecture 69 - Introduction - You have the data, but what are you doing with it?
- Lecture 70 - Intro to Big Data Managed Services in the Cloud
- Lecture 71 - Leverage Big Data Operations with Cloud Dataproc
- Lecture 72 - Build ETL Pipelines using Cloud Dataflow
- Lecture 73 - BigQuery Googles Enterprise Data Warehouse
- Lecture 74 - Recap Quiz - You have the data, but what are you doing with it?
- Lecture 75 - Summary - You have the data, but what are you doing with it?
- Lecture 76 - Introduction
- Lecture 77 - Introduction to ML
- Lecture 78 - ML and GCP
- Lecture 79 - Building Bespoke ML models
- Lecture 80 - Cloud AutoML
- Lecture 81 - Googles Pre-trained ML APIs
- Lecture 82 - Recap Quiz
- Lecture 83 - Summary